Dr. Robin D. Rogers
President/Owner/Founder, 525 Solutions, Inc., Tuscaloosa, AL, USA
CSO/Owner/Founder, Wyonics LLC, Laramie, WY, USA
Professor Emeritus, The University of Alabama, Tuscaloosa, AL, USA
Adjunct Professor, University of Wyoming, Laramie, WY, USA

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Date of Birth: [redacted]
Schools Attended and Degrees:

1975-1978: The University of Alabama, Tuscaloosa, AL; Chemistry Honors student; B.S. Degree in Chemistry (ACS); Summa Cum Laude.
1978-1982: The University of Alabama, Tuscaloosa, AL; Ph.D. in Inorganic Chemistry; Research Advisor: Professor Jerry L. Atwood.

Positions:

Active

2004-: Founder, President, and Owner, 525 Solutions, Inc., Tuscaloosa, AL, USA
2017-: Co-founder and Co-owner, Wyonics LLC, Laramie, WY, USA
2018-: Co-founder and Co-owner, CalAgua Innovations Corporation, Calgary, AB, Canada
2018-: Co-founder and Co-owner, Adjacency Labs Corporation, Calgary, AB, Canada
2019-: Honorary Professor, School of Engineering, University of Kwazulu-Natal, Pietermaritzburg, South Africa
2020-: Adjunct Professor, University of Wyoming, Laramie, WY, USA
2021-: Professor Emeritus, The University of Alabama, Tuscaloosa, AL, USA

Inactive

1982-1996: Assistant Professor, Associate Professor (1987), Professor (1994), Presidential Research Professor (1995), Northern Illinois University, DeKalb, IL, USA
1996-2014: Professor, Director of the Center for Green Manufacturing (1998-2014), Distinguished Research Professor (2004-2014), Robert Ramsay Chair of Chemistry (2005-2014), The University of Alabama, Tuscaloosa, AL, USA
2007-2009: Chair of Green Chemistry and Co-Director of the QUILL Research Centre, The Queen's University of Belfast, Belfast, Northern Ireland, United Kingdom
2015-2017: Canada Excellence Research Chair in Green Chemistry and Green Chemicals, McGill University, Montreal, QC, Canada
2017-2021: Research Professor, The University of Alabama, Tuscaloosa, AL, USA
2019-2020: Board of Directors, Nonexecutive Director, Ross Group, PLC, London, United Kingdom (https://ross-group.co.uk/)

Former Adjunct, Honorary, and Visiting:

1982 (summer): Visiting Assistant Professor, The University of Alabama, Tuscaloosa, AL
1991-1998: Resident Associate Guest (1991), Visiting Scientist (1992), Faculty Appointee (1993-1997), Guest Appointee (1997), Argonne National Laboratory, Argonne, IL, USA
1995-1996: Adjunct Professor, The University of Alabama, Tuscaloosa, AL, USA
1996-1997: Adjunct Professor, Northern Illinois University, DeKalb, IL, USA
2000 & 2006: Visiting Professor, Université Louis Pasteur, Strasbourg, France
2004: Adjunct Professor, Polymer and Fiber Engineering, Auburn University, Auburn, AL, USA

2004:	Adjunct Professor, Department of Biological Sciences, The University of Alabama, Tuscaloosa, AL, USA
2009:	Honorary Professor, Institute for Process Engineering, Chinese Academy of Sciences, Beijing, China
2010:	Visiting Professor for Senior International Scientists of the Chinese Academy of Sciences, Institute for Process Engineering, Beijing, China
2014:	Adjunct Professor, McGill University, Montreal, QC, Canada
2015-2017:	Adjunct Professor (2015-2016), Adjunct Faculty (2016-), The University of Alabama, Tuscaloosa, AL, USA
2017-2018:	Adjunct Professor, McGill University, Montreal, QC, Canada
2019-2020:	Tage Erlander Guest Professor, Stockholm University, Stockholm, Sweden

Memberships and Offices in Societies:

- Phi Beta Kappa; Sigma Xi, American Nuclear Society; American Crystallographic Association; American Institute of Chemical Engineers; Materials Research Society; American Association of Crystal Growth; Fellow (2012) of the American Association for the Advancement of Science; Fellow of the Royal Society of Chemistry; Chemical Institute of Canada; National Academy of Inventors.
- Fellow of the American Chemical Society: Rock River Local Section: Chairman Elect (Program Chairman), 1983-84; Chairman, 1984-86; Executive Committee, 1986-87; Secretary-Treasurer, 1988. Separation Science and Technology Subdivision (Industrial and Engineering Chemistry (I&EC)): Program Committee, 1992-2005; Executive Committee, 1993-2006; Vice Chair-Elect, 1993; Chair-Elect, 1994; Chair, 1995; Past-Chair, 1996. Practical Pollution Prevention Subdivision (I&EC): Co-Chair, 1998-99. Green Chemistry & Engineering Subdivision (I&EC): Program Committee, 2000-2006. I&EC Division: Program Committee, 1994-2002; Membership Committee (Academic Chemists Task Force Chair), 1996-2000; Executive Committee, 1995-2006; Program Secretary, 1995-98; Chair-Elect, 1998; Chair, 1999; Past-Chair, 2000; Parliamentarian, 2004-2006; I&EC Fellow, 2012. Committee on Science, 2004-06; Fellow of the American Chemical Society, 2009; Committee on Environmental Improvement, Associate 2010-2011; Member 2011-2017.

Advisory Boards:

- Scientific Advisory Board, EIChroM Industries, Inc., Darien, IL, 1995-2000.
- The University of Alabama College of Arts and Sciences Leadership Board, 1997-2002.
- Technology Review Council, Environmental Technology Demonstration and Commercialization Center (ETDCC), Texas City, TX, 1998-2000.
- Scientific Advisory Board, U.S. Department of Energy Joint Bioenergy Institute, Berkeley, CA, 2010-
- Scientific Advisory Board, Alkermes, Inc., Waltham, MA, 2012.
- International Advisory Board, CICECO: Aveiro Institute of Materials, Aveiro, Portugal, 2017-.

Editorial Boards and Editorships:

Active

- *Separation Science and Technology*: Associate Editor, 1996-99; Editorial Board 1999-
- *Solvent Extraction and Ion Exchange*, Editorial Board, 2002-
- *Green Chemistry*, Advisory Board, 2002-
- *Chemical Communications*, Advisory Board, 2005-
- *Chemistry Letters*, Advisory Board, 2010-
- *Chimica Oggi/Chemistry Today*, Scientific Advisory Board, 2014-
- *Current Opinion in Green and Sustainable Chemistry*, Editorial Board, 2016-
- *Green Energy & Environment*, Advisory Board, 2016-
- *Journal of Ionic Liquids*, Editorial Board, 2021-

Inactive

- *Journal of Crystallographic and Spectroscopic Research*: Editorial Board, 1989-93; Associate Editor, 1993
- *Journal of Chemical Crystallography*: Associate Editor, 1994-96; Editor, 1996-2000
- *Crystal Engineering*: Founding Co-Editor, 1998-99
- *Crystal Growth & Design*: Founding Editor-in-Chief, 2000-2019
- *Industrial & Engineering Chemistry Research*: Editorial Board, 1999-2001
- *Journal of Chromatography, B*, Guest Editor, Volume 743 (1 + 2), 2000
- *Accounts of Chemical Research*, Guest Editor (with G. A. Voth), Special Issue on Ionic Liquids, Volume 40(11), 2007
- *Australian Journal of Chemistry*, Guest Editor (with K. R. Seddon), Research Front on Crystal Engineering, Volume 63(4), 2010
- *Separation Science & Technology*, Guest Editor (with H. Rodriguez and J. Chen), Special Issue on Ionic Liquids (2012).
- *Chemical Communications* Guest Editor (with D. MacFarlane and S. Zhang), Special Issue on Ionic Liquids (2012).
- *Science China – Chemistry* Guest Editor (with S. Zhang), Special Issue on Ionic Liquids (2012).
- *Catalysis Today* Guest Editor (with S. Zhang), Special Issue on Ionic Liquids (2012).
- *Green Chemistry and Sustainable Technology*, Springer, Heidelberg, Germany, Book Series Editor (with L.-N. He, D. Su, P. Tundo, and Z. C. Zhang), 2013-2019.
- *ChemSusChem*, International Advisory Board, 2008-2019

National Academy of Sciences Committees:

- National Academy of Sciences Board on Radioactive Waste Management Committee on Long Term Research Needs for High-Level Waste at Department of Energy Sites, 1999-2001.
- National Academy of Sciences Board on Radioactive Waste Management Committee on Risk-Based Approaches for Transuranic and High-Level Radioactive Waste, 2003-2005.
- National Academy of Sciences Board on Radioactive Waste Management Committee Development and Implementation of a Cleanup Technology Roadmap, 2007-2009.
- National Academy of Sciences Board on Radioactive Waste Management Committee Independent Assessment of Science and Technology for the Department of Energy's Defense Environmental Cleanup Program, 2017-2019.

Awards:

- Northern Illinois University Outstanding Faculty Advisor - 1993
- Northern Illinois University Presidential Research Professor – 1995
- American Chemical Society Newsmaker Award – 2001 ("ACS Newsmakers honored in Chicago," *Chemical & Engineering News*, September 24, 2001, p 49.)
- The University of Alabama College of Arts & Sciences Leadership Board Fellow – 2002-2005
- The University of Alabama Burnum Distinguished Faculty Award – 2003.
- The University of Alabama Distinguished Research Professor – 2004
- The University of Alabama Robert Ramsay Chair of Chemistry - 2005
- 2005 Presidential Green Chemistry Challenge Award (Academic): "A Platform Strategy Utilizing Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials," – 2005 (Ritter, S. K. "Green Success," *Chemical & Engineering News*, June 27, 2005, pp 40-43.)
- Fellow of the Royal Society of Chemistry - 2006
- The University of Alabama Frederick Moody Blackmon – Sarah McCorkle Moody Outstanding Professor Award - 2009
- Fellow of the American Chemical Society – 2009
- Chinese Academy of Sciences Visiting Senior Scientist, Institute for Process Engineering, Beijing, China - 2010

- American Chemical Society Award in Separations Science and Technology – 2011
- Fellow of the American Chemical Society Division of Industrial & Engineering Chemistry - 2012
- Fellow of the American Association for the Advancement of Science – 2012
- Paul Walden Award in Ionic Liquids, Presented by the German Science Foundation Priority Program on Ionic Liquids (SPP 1191) – 2013
- Thomson Reuters Highly Cited Researchers List 2014, 2015 (ranking among the top 1% most cited in chemistry).
- R&D100 Award for "U Grabber" 2016 (525 Solutions with Oak Ridge National Laboratory).
- Max Bredig Award in Molten Salt and Ionic Liquid Chemistry, Presented by the Physical and Analytical Electrochemistry Division of the Electrochemical Society – 2018.
- American Chemical Society/Environmental Protection Agency Green Chemistry Challenge Award Focus Area 2, Greener Reaction Conditions to Mari Signum Mid-Atlantic, LLC for "A Practical Way to Mass Production of Chitin: The Only Facility in the U. S. to Use Ionic Liquid-Based Isolation Process" – 2018.
- Tage Erlander Professorship, Swedish Research Council, Stockholm University – 2019-2020.
- Listed in the Top 2% Ranking of World Scientists (Ioannidis, J. P. A.; Boyack, K. W.; Baas, J. "Updated science-wide author databases of standardized citation indicators," *PLoS Bioln* **2020**, *18*, e3000918; DOI: 10.1371/journal.pbio.3000918. Ranked 2526/159864 World Scientists and 76/111388 in the category of Organic Chemistry.

Student Awards:

- Ann E. Visser: American Institute of Chemical Engineers Separations Division Graduate Student Award in Solvent Extraction – 2002
- Richard P. Swatloski: ACS Kenneth G. Hancock Memorial Student Award in Green Chemistry – 2003 ("2003 Hancock Award Honors Student Research," *Chemical & Engineering News*, July 7, 2003, pp 67-68.)

Research Interest:

Solid State Chemistry: Crystal engineering, crystallization, hydration, solvate formation, polymorphism, and isolation and characterization of amorphous and crystalline forms. **Utilizing Ionic Liquids and Green Chemistry for Sustainable Technology Through Innovation and Translation to Society.** Major thrusts include: **Materials:** Advanced polymeric and composite materials from biorenewables to eliminate synthetic plastics; **Separations**: Novel strategies for separation and purification of value added products from biomass; **Energy:** New lubricant technologies and selective separations; **Medicine/Agrochemicals/Nutraceuticals:** Elimination of waste while delivering improved performance and new applications of pharmaceuticals, agrochemicals, and nutraceuticals.

Statistics:

A. Refereed Publications: > 915
B. Citations; H-Index; i10 Index: > 77,000; 118; 697
C. Patents: 89 issued; 30 applications; 17 licensed
D. Books Edited: 14
E. Non-Refereed Reviews, Reports, and Articles: 91
F. Meetings (Symposia) Organized: 35 (39)
G. Presentations (including students and collaborators) before National and International Meetings: 1011
H. Presentations (including students and collaborators) before Regional Meetings: 129
I. Seminars: 255
J. PhD (thesis MS) degrees supervised: 28 (7)

Financial Disclosure:

Dr. Robin D. Rogers has majority ownership of and is President of 525 Solutions, Inc. and has partial ownership of 525 SDT LLC, Wyonics LLC, Wyonics-SSG LLC, Consortium for Green Manufacturing LLC, CalAgua Innovations Corp., Adjacency Labs Corp., and ACSYNAM, Inc. in addition to financial interest in patents and patent applications through The University of Alabama and McGill University. 525 Solutions, Inc. is the majority owner of RGP-525, LLC.

Meetings Organized:

- Chair, *23rd Great Lakes Regional American Chemical Society Meeting*, DeKalb, IL, 1990.
- Conference Chair, *11th International Conference on Partitioning in Aqueous Two-Phase Systems: The Expanding Boundaries of Aqueous Two-Phase Partitioning: Fundamentals and Applications of Environmentally-Benign Polymers in Biological, Industrial and Environmental Processes*, Gulf Shores, AL June 27-July 2, 1999.
- Co-Director (with K. R. Seddon and S. Volkov), NATO Advanced Research Workshop: *Green Industrial Applications of Ionic Liquids*, Crete, Greece, April 12-16, 2000. (Conference URL: http://bama.ua.edu/~rdrogers/NATO.) (Highlighted in Freemantle, M. "Eyes On Ionic Liquids," *Chemical & Engineering News*, May 15, 2000, pp 37-50.)
- Organizer, *Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering*, Mobile, AL July 27-28, 2000. (Conference URL: http://bama.ua.edu/~rdrogers/IOF/Mobile.)
- Co-Vice Chair (with J. C. Warner), *Gordon Research Conference on Green Chemistry*, Oxford, United Kingdom, September 8-13, 2002.
- Co-Chair (with A. S. Myerson, S. M. Reutzel-Edens, and R. J. Davey), ACS ProSpectives Series: *Polymorphism in Crystals: Fundamentals, Prediction, and Industrial Practice*, Tampa, FL, February 23-27, 2003.
- Co-Chair (with A. S. Myerson, and S. M. Reutzel-Edens), ACS ProSpectives Series: *Polymorphism in Crystals*, Tampa, FL, February 8-11, 2004.
- Organizer, *Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications*, Tuscaloosa, AL, March 23-24, 2004 (Workshop URL: http://www.bama.ua.edu/~rdrogers/ILWorkshop04/).
- Co-Chair (with J. C. Warner), *Gordon Research Conference on Green Chemistry*, Bristol, RI, July 4-9, 2004 (Conference URL: http://bama.ua.edu/~rdrogers/GreenChemistryGRC04).
- U.S. Organizer, NSF Joint China-USA Workshop *Determining the Grand Challenges of Green Chemistry Development and Implementation*, Beijing, China, May 27-31, 2005.
- Organizer, EPA/Green Chemistry Institute Workshop *Incorporating Toxicology into the Design Criteria for New Ionic Liquids Synthesis*, Washington, DC, June 9-10, 2005.
- Program Chair, 2nd International Conference on Green and Sustainable Chemistry; 9th Annual Green Chemistry and Engineering Conference: *Taking Measure of Green Progress: Opportunities to Meet Global Challenges*, Washington, DC, June 20-24, 2005.
- Program Chair, *2005 Rare Earth Research Conference*, Keystone, CO, June 26-30, 2005.
- Co-Organizer (with D. A. Dixon), *Alabama Actinide Day*, April 6, 2005, Tuscaloosa, AL.
- Local Organizer, *Air Force Office of Scientific Research Ionic Liquids Research Workshop*, Tuscaloosa, AL, February 7-8, 2006.
- Organizer, *Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications*, Tuscaloosa, AL, March 23-24, 2006 (Workshop URL: http://www.bama.ua.edu/~rdrogers/ILWorkshop06/).
- Co-Chair (with A. S. Myerson) ACS ProSpectives Series: *Process Crystallization in the Pharmaceutical and Chemical Industries*, Philadelphia, PA, April 25 - 27, 2006.
- Co-Chair (with M. Maase) Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications*, Orlando, FL, December 11-13, 2006.
- Co-Chair (with A. S. Myerson) ACS ProSpectives Series: *Crystallization Process Development: Case Studies & Research*, Boston, MA, February 25-27, 2007.
- Organizing Committee (with K. R. Seddon and J. F. Brennecke), *Biodegradability and Toxicity of Ionic Liquids*, Berlin, Germany, May 6-9, 2007.
- Chair, Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications*, Prague, Czech Republic, October 16-18, 2007.
- Co-Chair (with M. Hong), *5th Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of* Crystal Growth & Design," Fuzhou, China, October 25-31, 2007.
- Conference Chair, *25th Rare Earth Research Conference*, Tuscaloosa, AL, June 22-26, 2008.

- Organizer/Lecturer, *1st Ionic Liquid Workshop Malaysia*, University of Technology PETRONAS, Tronoh, Malaysia, June 30 – July 11, 2008.
- Local Organizing Committee, *15th International Conference on Biopartitioning and Purification*, Brunel University, Uxbridge, UK, June 14-19, 2009.
- Co-Chair (with T. Beyersdorff), Intertech Pira Conference *Ionic Liquids*, Miami Beach, FL, November 18-19, 2009.
- Co-Founder, Co-Organizer, and Vice Chair, *Gordon Research Conference on Crystal Engineering*, Waterville Valley, NH, June 6-11, 2010.
- Co-Organizer (with G. Desiraju), *Crystal Growth & Design-India Summit* and *Current Trends in Crystal Engineering Research,* Bangalore, India, December 2-3, 2010.
- Conference Chair, *4th Congress on Ionic Liquids*, Washington, DC, June 15-18, 2011.
- Chair, *Gordon Research Conference on Crystal Engineering*, Waterville Valley, NH, June 10-15, 2012.
- Co-Chair (with S. Zhang*), 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes*, APCIL'12, Beijing, China, September 17-19, 2012.
- Theme Organizer, "Chemistry & Global Stewardship" for the 248th ACS National Meeting (2014), San Francisco, CA, August 10-14 2014.
- Co-Founder, Co-Organizer, and Chair, *Gordon Research Conference on Ionic Liquids*, Newry, ME, August 17-22, 2014.
- Organizer/Host, 2015 New Journal of Chemistry Symposium *New Directions in Chemistry*, Montreal, QC Canada, June 3, 2015.
- Honorary Chair, 2nd International Congress on Separation and Purification Technology (ISPT 2024), Zhengzhou, China, April 2024.

Symposia Organized:

- "Aqueous Biphasic Separations: Biomolecules to Metal Ions," (with C. K. Hall) for the 207th ACS National Meeting (1994), San Diego, CA.
- "Lanthanide Coordination Chemistry," for the Rare Earth Research Conference (1996), Duluth, MN.
- "Current Trends in Applied Chemistry: The Industrial/Academic Interface in Separation Science," for the 213th ACS National Meeting (1997), San Francisco, CA.
- "Recent Advances in Metal Ion Separation and Preconcentration," (with M. L. Dietz and A. H. Bond) for the 214th ACS National Meeting (1997), Las Vegas, NV.
- "Crystal Engineering: Functional Solids by Design," (with M. J. Zaworotko) for the Fifth Chemical Congress of North America (1997), Cancún, Mexico.
- "Transactions Symposium: Crystal Engineering," (with M. J. Zaworotko) for the American Crystallographic Association Annual Meeting (1998), Arlington, VA.
- "Nuclear Separations for Radiopharmacy," (with M. L. Dietz and A. H. Bond) for the 216th ACS National Meeting (1998), Boston, MA.
- "Calixarene Molecules for Separations," (with G. Lumetta and A. S. Gopolan) for the 217th ACS National Meeting (1999), Anaheim, CA.
- "Toward Vision 2000: Sustainable Technology for the Future," (with A. Manheim and A. H. Bond) Poster Session for the 217th ACS National Meeting (1999), Anaheim, CA.
- "Synthesis of New Materials by Coordination Chemistry, Self Assembly and Template Formation," (with M. J. Zaworotko) for the 217th ACS National Meeting (1999), Anaheim, CA.
- "Crystal Engineering," Microsymposium 110D (G. R. Desiraju, Chair; M. J. Zaworotko and R. D. Rogers, Co-Chairs) for the XVIIIth International Union of Crystallography Congress and General Assembly (1999), Glasgow, Scotland, UK.
- "Separation Science and Technology Award Honoring E. Philip Horwitz: Solvent Extraction and Ion Exchange in the 21st Century," (with S. Alexandratos) for the 219th ACS National Meeting (2000), San Francisco, CA.
- "Advances in Solvent Selection and Substitution for Extraction," (with M. Overcash) for the 2000 Spring

National AIChE Meeting (2000), Atlanta, GA.

- "Crystal Engineering," (with W. T. Pennington) for the 52nd Southeast/56th Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA.
- "Separation Science: Trends for the New Century," (with S. Alexandratos, A. Jyo, and M. J. Zaworotko) for the 2000 International Chemical Congress of Pacific Basin Societies, Pacifichem 2000 (2000), Honolulu, HI.
- "Green (or Greener) Industrial Applications of Ionic Liquids," (with K. R. Seddon) for the 221st ACS National Meeting (2001), San Diego, CA (URL: http://bama.ua.edu/~rdrogers/sandiego).
- "Crystal Engineering to Crystal Growth: Design and Function," (with A. S. Myerson and K. R. Seddon) for the 223rd ACS National Meeting (2002), Orlando, FL.
- "Ionic Liquids as Green Solvents: Progress and Prospects," (with K. R. Seddon) for the 224th ACS National Meeting (2002), Boston, MA (URL: http://bama.ua.edu/~rdrogers/Boston).
- "Ionic Liquids III: Fundamentals, Progress, Challenges, and Opportunities," (with K. R. Seddon) for the 226th ACS National Meeting (2003), New York, NY (URL: http://bama.ua.edu/~rdrogers/New York).
- "Ionic Liquids in Polymer Systems," (with C. S. Brazel) for the 227th ACS National Meeting (2004), Anaheim, CA (Highlighted in Freemantle, M. "Designer Liquids in Polymer Systems," *Chemical & Engineering News*, May 3, 2004, pp 26-29.)
- "Polymorphism," Microsymposium MS04 (with E. Vlieg) for the XXth International Union of Crystallography Congress and General Assembly (2005), Florence, Italy.
- "Lanthanide-containing Functional Edifices," (with J.-C. Bunzli, H. Tsukube, and J. Takats) for the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI.
- "Ionic Liquids: Perspectives on the Present, Visions for the Future" (with J. Davis, Jr., D. MacFarlane, and H. Ohno) for the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI.
- "Organic Reactions in Neoteric Media" (with C.-J. Li, T.-H. Chan, D. H. Busch, S. Kobayashi, and P. Jessop) for the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI.
- "Ionic Liquids: Not Just Solvents Anymore OR Ionic Liquids: Parallel Futures," (with J. F. Brennecke and K. R. Seddon) for the 231st ACS National Meeting (2006), Atlanta, GA (URL: http://bama.ua.edu/~rdrogers/Atlanta2006/)
- "Green Chemistry and Engineering" (with M. A. Abraham) within the Joint ACS/AIChE Symposium on "Applied Chemistry and Engineering" for the 233rd ACS National Meeting (2007), Chicago, IL.
- "Award in Separations Science and Technology: Symposium in Honor of Allen S. Myerson," for the 235th ACS National Meeting (2008), New Orleans, LA.
- "Ionic Liquids: From Knowledge to Application," (with J. F. Brennecke and K. R. Seddon) for the 236th ACS National Meeting (2008), Philadelphia, PA (URL: http://bama.ua.edu/~rdrogers/Philadelphia2008/).
- "Green Chemistry for a Sustainable World," for the 239th ACS National Meeting (2010), San Francisco, CA.
- "Symposium in Honor of Allan S. Myerson, I&EC Fellow," for the 239th ACS National Meeting (2010), San Francisco, CA.
- "Ionic Liquids in a Sustainable World (#92)" (with D. MacFarlane and H. Ohno) for the 2010 International Chemical Congress of Pacific Basin Societies, Pacifichem 2010 (2010), Honolulu, HI.
- "Ionic Liquids: Science and Applications" (with A. E. Visser and N. J. Bridges) for the 243rd ACS National Meeting (2012), San Diego, CA.
- "Functional Materials and Ionic Liquids (BBB)" (with S. Dai, T. P. Lodge, P. Wasserscheid, and M. Watanabe) for the 2012 Materials Research Society Spring Meeting (2012), San Francisco, CA.
- "Uranium from Seawater" (with S. Dai and B. Hay) for the 244th ACS National Meeting (2012), Philadelphia, PA.
- "Materials Applications of Ionic Liquids (VV)" (with R. E. Del Sesto, S. Dai, and Y. Yoshida) for the 2013 Materials Research Society Spring Meeting (2013), San Francisco, CA.

- "Uranium from Seawater" (with P. F. Britt) for the 249th ACS National Meeting (2015), Denver, CO.
- "Transactions Symposium: Crystallography for Sustainability," (with C. Lind-Kovacs) for the American Crystallographic Association Annual Meeting (2015), Philadelphia, PA.
- "Connecting Ionic Liquids to Societal Issues: Materials, Medicines, Energy, and Water (#113)" (with D. MacFarlane and H. Ohno) for the 2015 International Chemical Congress of Pacific Basin Societies, Pacifichem 2015 (Dec. 14-21, 2015), Honolulu, HI.
- "Pharmaceutical Ionic Liquids: Understanding, Design, and Utilization," for the Molecules, Materials, Medicines (M3) Meeting (May 14-17, 2016), Solomons Island, MD.

Other Professional Activities:

- International Advisory Board member for the 9th International Conference on Partitioning in Aqueous Two-Phase Systems, Zaragoza, Spain, 1995.
- International Advisory Board member for the 6th Conference on Separation of Ionic Solutes, Piestany Spa, Slovakia, 1995.
- International Scientific Committee member for the 10th International Conference on Partitioning in Aqueous Two-Phase Systems, Reading, United Kingdom, 1997.
- Program Committee for the Tenth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 1997.
- Program Committee for the Third Department of Energy/Basic Energy Sciences Separations Research Workshop, Savannah, GA, 1999.
- Program Committee for the Eleventh Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 1999.
- Steering Committee Member for *Chemistry in the 21st Century*, *ACS-2000*, San Francisco, CA, 2000.
- Program Committee for IUPAC CHEMRAWN XIV World Conference, Toward Environmentally Benign Processes and Products, Boulder, CO, 2001.
- Program Committee for the Twelfth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 2001.
- Chair, Scientific Committee for Bio Partitioning & Purification 2003 Conference, Vancouver, BC, Canada, 2003.
- Instructor, NSF/DOE Pan American Advanced Studies Institute (PASI) on Green Chemistry, Montevideo, Uruguay, 2003.
- International Symposium Committee for the First International Symposium on Process Intensification and Miniturisation, Newcastle upon Tyne, United Kingdom, 2003.
- Program Committee for the Thirteenth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 2003.
- Scientific Committee for the International Conference on Materials for Advanced Technologies (ICMAT 2003)/International Union of Materials Research Societies International Conference in Asia (ICA 2003), Singapore, Symposium D: New Materials by Crystal Engineering Design.
- Group of Advisors, LICP Discussions No. 1 - Ionic Liquids: Progress and Prospects, Lanzhou China, 2004.
- Organizing and Scientific Advisory Committee, Canada-US Joint Workshop on Innovative Chemistry in Clean Media, Montreal, Quebec, Canada, 2004.
- International Program Committee, EUCHEM 2004 Molten Salts Conference, Piechowice, Poland, 2004.
- Instructor, ACS-PRF Summer School on Green Chemistry, Pittsburgh, PA, 2004.
- International Advisory Board, 1st International Congress on Ionic Liquids (COIL), Salzburg, Austria, 2005.
- Program Committee for the Fourteenth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 2005.
- Advisory Board, Second International Symposium on Green/Sustainable Chemistry, Delhi, India, 2006.
- Organizing Committee 10th Annual Green Chemistry and Engineering Conference: Washington, DC, 2006.
- Scientific Committee, EUCHEM Conference on Molten Salts and Ionic Liquids, Hammamet, Tunisia, 2006.
- International Advisory Committee, International Conference and Exhibition on Green Chemistry, Malaysian

Chemical Congress (MCC 2006), Kuala Lumpur, Malaysia, 2006.

- Advisory Committee, DAE-BRNS Biennial Symposium on Emerging Trends in Separation Science and Technology, SESTEC-2006, Mumbai, India, 2006.
- Organizing Committee, 11th Annual Green Chemistry and Engineering Conference, Washington, DC, 2007.
- International Organizing Committee, 2nd International Congress on Ionic Liquids (COIL-2), Yokohama, Japan, 2007.
- Organizing Committee, International Solvent Extraction Conference (ISEC 2008) "Solvent Extraction: Fundamentals to Industrial Applications," Tucson, AZ, 2008.
- International Advisory Board, EUCHEM2008 Conference on Molten Salts and Ionic Liquids, Copenhagen, Denmark, 2008.
- Scientific Advisory Board, Taibah International Chemistry Conference 2009 (TICC-2009), Al-Madinah Al-Munawarah, Saudi Arabia, 2009.
- International Advisory Board for the Joint Conference: The 4th International Conference on Green and Sustainable Chemistry (GSC-4) & the 2nd Asian-Oceanian Conference on Green and Sustainable Chemistry (AOC-2), Beijing, China, 2009.
- International Advisory Committee for the 9th International Workshop on the Crystal Growth of Organic Materials (CGOM9), Singapore, 2010.
- International Advisory Committee for Application of Radiotracers in Chemical, Environmental and Biological Sciences (ARCEBS 10), Kolkata, India, 2010.
- Scientific Committee for 2nd Asian Pacific Conference on Ionic Liquids and Green Processes (APCIL-2), Dalian, China, 2010.
- International Advisory Board for the Green Solvents Conference, Berchtesgaden, Germany, 2010.
- Chair The Rare Earth Research Conference Spedding Award Committee, 2011.
- Technical Committee, International Solvent Extraction Conference (ISEC 2011), Santiago, Chile, 2011.
- International Scientific Committee, 1st International Conference on Ionic Liquids in Separation and Purification Technology, Sitges, Spain, 2011.
- International Advisory Board, EUCHEM2012 Conference on Molten Salts and Ionic Liquids, Newport, South Wales, UK, 2012.
- International Advisory Board, Indo-US Workshop on Green Chemistry for Environments and Sustainable Development, Dehradun, India, March 11-13, 2012.
- International Scientific Committee, 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12, Beijing, China, September 17-19, 2012.
- International Committee, 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT), Toronto, Canada, June 29 – July 2, 2014.
- Advisory Board, 7th Green Solvents Conference, Dresden, Germany, October 19-22, 2014.
- International Advisory Board, Collaborative Conference on Crystal Growth, Phuket, Thailand, Nov. 4-7, 2014.
- International Advisory Board, *6th International Congress on Ionic Liquids (COIL-6),* Jeju, Korea, June 16-20, 2015.
- Invited Expert, meeting of the International Council for Science Project "COncepts and termiNology IN Crystal Engineering" (CONvINCE), Como, Italy, August 30, 2015.
- International Advisory Committee, Collaborative Conference on Crystal Growth (3CG 2015), Hong Kong, China, Dec. 14-17, 2015.
- Advisory Board, International Symposium on Ionic Liquids (ISOIL_2016), Mumbai, India, Jan. 21-22, 2016.
- International Advisory Committee, Energy Materials Nanotechnology Meeting on Cellulose (EMN 2016), Taipei, Taiwan, March 8-11, 2016.
- Scientific Advisory Board, 26th EUCHEM Conference on Molten Salts and Ionic Liquids, Vienna, Austria, July 3-8, 2016.
- Organizing Committee, Molecules, Materials, Medicines (M3), Solomons Island, MD, May 14-17, 2016.

- Steering Committee, International Conference on Seawater Uranium Recovery, University of Maryland, College Park, MD, July 19-22, 2016.
- International Steering Committee, 5th Asian-Pacific Conference on Ionic Liquids & Green Processes: Green Energy, Environment & Materials (APCIL-5, http://www.apcil-5.org/), Hangzhou, China, October 26-29, 2016.
- Advisory Board, International Green Technology Association (IGTA), 2018.
- International Advisory Board and Council of Chairs, 8th International Congress on Ionic Liquids (COIL-8), Beijing, China, May 13-17, 2019.
- International Advisory Board, World Congress on Green Intelligent Manufacturing Technology (GreenWorld2020), Zhengzhou, China, September 24-27, 2020.
- International Advisory Committee, International Congress on Separation and Purification Technology (ISPT 2022), Virtual, December 10-14, 2022.
- Scientific Committee, Global Symposium on Ionic Liquids, part of the 2nd Iberoamerican Congress on Chemical Engineering (II-CIBIQ2023) at the World Congress on Chemical Engineering, Buenos Aires, Argentina, June 4-8, 2023.

Books Edited:

1. *Aqueous Biphasic Separations: Biomolecules to Metal Ions*; Rogers, R. D.; Eiteman, M. A., Eds.; Plenum: New York, 1995; 191 pp.
2. *Metal-Ion Separation and Preconcentration, Progress and Opportunities*; Dietz, M. L.; Bond, A. H.; Rogers, R. D., Eds.; ACS Symposium Series 716, American Chemical Society: Washington, DC, 1999; 418 pp.
3. *Crystal Engineering*, Rogers, R. D.; Zaworotko, M. J., Eds.; Transactions of the American Crystallographic Association, Vol. 33; American Crystallographic Association: Buffalo, NY, 1999; 177 pp.
4. *Calixarenes for Separations*; Lumetta, G.; Rogers, R. D.; Gopalan, A. S., Eds.; ACS Symposium Series 757, American Chemical Society: Washington, DC, 2000; 366 pp.
5. *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington, DC, 2002; 474 pp.
6. *Green Industrial Applications of Ionic Liquids*, NATO Science Series II. Mathematics, Physics and Chemistry – Vol. 92, Rogers, R. D.; Seddon, K. R.; Volkov, S. (Eds.); Kluwer: Dordrecht, 2003; 553 pp.
7. *Ionic Liquids as Green Solvents: Progress and Prospects*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 856; American Chemical Society: Washington, DC, 2003; 599 pp.
8. *Ionic Liquids IIIA: Fundamentals, Progress, Challenges, and Opportunities - Properties and Structure*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 901; American Chemical Society: Washington, DC, 2005; 334 pp.
9. *Ionic Liquids IIIB: Fundamentals, Progress, Challenges, and Opportunities - Transformations and Processes*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 902; American Chemical Society: Washington, DC, 2005; 397 pp.
10. *Ionic Liquids in Polymer Systems: Solvents, Additives, and Novel Applications*, Brazel, C. S.; Rogers, R. D. (Eds.); ACS Symposium Series 913; American Chemical Society: Washington, DC, 2005; 206 pp.
11. *Ionic Liquids IV Not Just Solvents Anymore*, Brennecke, J. F.; Rogers, R. D.; Seddon K. R. (Eds.); ACS Symposium Series 975; American Chemical Society: Washington, DC, 2007; 408 pp.
12. *Solvent Extraction: Fundamentals to Industrial Applications - Proceedings of ISEC 2008 International Solvent Extraction Conference, (ISEC 2008)*, Moyer, B. A.; Baron, P.; Chagnes, A.; Cole, P. M.; Cote, G.; Dietz, M. L.; Hatton, T. A.; Horwitz, E. P.; de Ortiz, E. S. P.; Ritcey, G. M.; Robinson, D.; Rogers, R. D.; Sole, K. C.; Tasker, P. A.; Todd, T. A.; Virnig, M. J. (Eds.); Canadian Institute of Mining, Metallurgy and Petroleum: Montréal, 2008; 1661 pp.
13. *Ionic Liquids: From Knowledge to Application*, Plechkova, N. V.; Rogers, R. D.; Seddon K. R. (Eds.); ACS Symposium Series 1030; American Chemical Society: Washington, DC, 2009; 458 pp. ISBN13: 9780841269972; eISBN: 9780841224919; DOI: 10.1021/bk-2009-1030.
14. *Ionic Liquids: Science and Applications*, Visser, A. E.; Bridges, N. J.; Rogers, R. D. (Eds.); ACS Symposium Series 1117; American Chemical Society: Washington, DC, 2012; 313 pp. ISBN 978-0-8412-2763-7; eISBN: 9780841227644; DOI: 10.1021/bk-2012-1117.

Patents:

1. Rogers, R. D.; Horwitz, E. P.; Bond, A. H. "Process for Recovering Pertechnetate Ions from an Aqueous Solution also Containing Other Ions," US 5603834 (02/18/97).
2. Rogers, R. D.; Horwitz, E. P.; Bond, A. H. "Recovery and Separation of Chaotropic Anions from Aqueous Solution by Solid/Liquid Process," PCT Int. Appl. WO 96/40396 A1 (12/19/96); "Process for Recovering Chaotropic Ions from an Aqueous Solution also Containing Other Ions," US 5888397 (03/10/99).
3. Rogers, R. D.; Horwitz, E. P.; Bond, A. H. "Separating Anionic Dyes from Aqueous Solution," PCT Int. Appl. WO 96/40397 A1 (12/19/96); "Process for Separating and Recovering an Anionic Dye from an Aqueous Solution," US 5707525 (01/13/98).
4. Mays, J. W.; Bu, L.; Rogers, R. D.; Hong, K.; Zhang, H. "Polymer Formation in Room Temperature Ionic Liquids," PCT Int. Appl. WO 2002079269 A1 (10/10/02); US 6924341 (08/02/05).
5. Wu, B.; Reddy, R. G.; Rogers, R. D. "Production, Refining and Recycling of Lightweight and Reactive Metals in Ionic Liquids," U.S. Appl., US 20020070122 A1 (06/13/02); US 6881321 B2 (04/19/05).
6. Holbrey, J. D.; Spear, S. K.; Turner, M. B.; Swatloski, R. P.; Rogers, R. D. "Cellulose Matrix Encapsulation

and Method," U.S. Appl., US 20040038031 A1 (02/26/04); US 6808557 B2 (10/26/04); ZA 2005/08446 (04/25/07); EA 009256 (09/12/07); SG 115160 (08/31/07); ZL 200480013560.5 (12/02/09); MX 277934 (08/09/10); KR 10-1064345 (09/05/11); CA 2519652 (07/24/12); JP 5213329 (03/08/13).

7. Swatloski, R. P.; Rogers, R. D.; Holbrey, J. D. "Dissolution and processing of cellulose using ionic liquids," PCT Int. Appl. WO 2003029329 A2 (04/10/03); US 6824599 B2 (11/30/04); ZA 2004/2610 (02/23/05); NZ 5320076 (01/12/06); ID 0 017 226 (05/04/06); AU 2002347788 (10/26/06); EA 008538 (03/20/07); KR 778793 (11/16/07); ZL 02823875.3 (01/30/08); HK 1076120 (11/28/08); JP 4242768 (01/09/09); MX 26627 (05/11/09); CA 2462460 (05/19/09); IL 161124 (06/29/10); EP 1458805 B1 (08/31/11); DE 60240972.1 (08/31/11); PL 206185 (12/14/11); PH 1-2004-500479 (06/29/12); CN ZL200710085298.0 (10/03/12); JP 5148436 (12/07/12); HK1108165 (07/21/13).
8. Swatloski, R. P.; Rogers, R. D.; Holbrey, J. D. "Dissolution and processing of cellulose using ionic liquids," CN ZL200710085298.0 (10/03/12); JP 5148436 (12/07/12); EP 2325246 (11/27/13).
9. Wu, B.; Reddy, R. G.; Holbrey, J. D.; Rogers, R. D. "Ionic Liquid Temperature Sensor," PCT Int. Appl. WO 03/058185 A1 (07/17/03); US 6749336 B2 (6/15/04).
10. Holbrey, J. D.; Swatloski, R. P.; Chen, J.; Daly, D. T.; Rogers, R. D. "Polymer Dissolution and Blend Formation In Ionic Liquids." PCT Int. Appl. WO 2005098546 A2 (10/20/05); US 7888412 B2 (02/15/11); SG 126235 (07/31/07); ZA 2006/08882 (06/25/08); MX 276898 (06/25/10); KR 10-1001533 (12/09/10); AU 2005231083 (03/10/11); NZ 550776 (04/05/11); ID P0028151 (05/02/11); PH 1-2006-501906 (07/22/11); CA 2560680 (11/22/11); EP 1733282 (01/04/12); DE 05729932.3 (01/04/12); JP 5203698 (02/22/13); CN ZL200580016490.3 (08/19/15).
11. Daly, D. T.; Rogers, R. D. "Method of Preparing High Orientation Nanoparticle-Containing Sheets or Films Using Ionic Liquids, and the Sheets or Films Produced Thereby," U.S. Pat. Appl. Publ. (2006), US 20060269695 A1 (11/30/06); US 7550520 B2 (06/23/09); ID P0025079 (02/10/10); SG 137607 (06/30/10).
12. Rogers, R. D.; Daly, D. T.; Turner. M. B.; Spear, S. K.; Holbrey, J. D. "Ionic Liquid Reconstituted Cellulose Composites as Solid Support Matrices." PCT Int. Appl. WO 2007005388 A3 (01/11/07); CN 200680031454.9 (12/21/11); EU 1907470 (04/10/13).
13. Rogers, R. D.; Daly, D. T.; Swatloski, R. P.; Hough, W. L.; Davis Jr., J. H.; Smiglak, M.; Pernak, J.; Spear, S. K. "Multi-Functional Ionic Liquid Compositions for Overcoming Polymorphism and Imparting Improved Properties for Active Pharmaceutical, Biological, Nutritional, and Energetic Ingredients," PCT Int. Appl. WO 2007044693 A2 (04/19/07); US 8232265 (07/31/12); MX 301158 (07/10/12); CN 200680046195.7 (06/05/13).
14. Rahman, M.; Rodriguez, H.; Sun, N.; Swatloski, R. P.; Daly, D. T.; Rogers, R. D. "Ionic Liquid Systems for the Processing of Biomass, Their Components and/or Derivatives, and Mixtures Thereof," PCT Int. Appl. WO 2009105236 A1 (08/27/09); US 8668807 (03/11/14); EP 2257669 B1 (03-22-17).
15. Rogers, R. D.; Daly, D. T.; Swatloski, R. P.; Hough, W. L.; Davis Jr., J. H.; Smiglak, M.; Pernak, J.; Spear, S. K. "Multi-Functional Ionic Liquid Compositions for Overcoming Polymorphism and Imparting Improved Properties for Active Pharmaceutical, Biological, Nutritional, and Energetic Ingredients," US 8802596 (08/12/14); AU 2012203353 (09/11/14); JP 5713534 (03/20/15).
16. Rogers, R. D.; Myerson, A. S.; Hines, C. C. "Improved Process for the Purification of Aryl Carboxylic Acids," PCT Int. Appl. WO 2008151034 A1 (12/11/08); "Process for purification of aryl carboxylic acids," US 8309760 B2 (11/13/12).
17. Wu, B.; Reddy, R. G.; Rogers, R. D. "Production, Refining and Recycling of Lightweight and Reactive Metals in Ionic Liquids," U.S. Appl. 20020070122 A1 (06/13/02); US 7347920 B2 (3/28/08).
18. Spear, Scott K.; Daly, Daniel T.; Frazier, Rachel M.; Rogers, Robin D.; Haque, A. "Conductive composites prepared using ionic liquids," PCT Int. Appl. WO 2011011322 A1 (01/27/11); U.S. Appl. US 2012/0241680 A1 (09/27/12); US 8784691 (07/22/14).
19. DiSalvo, R.; Dykes, H. W. Jr.; Rogers, R. D.; Shamshina, J.; Smiglak, M. "Ionic Liquid Monopropellant Gas Generator," U.S. Appl. US 20120138859 A1 (06/07/12); US 8636860 (01/28/14).
20. Daly, D. T.; Rogers, R. D. "Cellulosic Biocomposites as Molecular Scaffolds for Nano-Architectures," U.S. Appl. 20120122691 A1 (05/17/12); US 8883193 (11/11/14).
21. Rogers, R. D.; Myerson, A. S.; Hines, C. C. "Process for Purification of Aryl Carboxylic Acids," US 8859806 (10/14/14).

22. Rogers, R. D.; Holbrey, J.; Rodriquez, H. "Process for the preparation of heterocyclic chalcogenones via reaction of elemental sulfur, selenium, or tellurium with heterocyclic cationic species," PCT Int. Appl. WO 2010116166 A2 (10/14/10); "Process for the preparation of chalcogenone compounds," U.S. Appl. US 20120108822 A1 (05/03/12); EP 2417109 B1 (03/12/14).
23. Frazier, R. M.; Daly, D. T.; Spear, S. K.; Rogers, R. D.; Hough, W. "Organic Photovoltaic-Battery Hybrid Device," U.S. Appl. 201203818348 A1 (12/20/12); US 9073937 (07/07/15).
24. Qin, Y.; Rogers, R. D.; Daly, D. T. "Process for forming films, fibers, and beads from chitinous biomass," PCT Int. Appl. WO 2010141470 A2 (12/9/10); US 9096743 B2 (08/04/15).
25. Pernak, J.; Pyrzynski, K.; Rogers, R. D. "Method of preparing hydrophobic quaternary dimethylammonium nitrates (V)," PL 207606 B1 (01/31/11).
26. Rogers, R. D.; Daly, D. T.; MacFarlane, D.; Scott, J. L.; Seddon, K. R.; Gurau, G.; Bica, K.; Turanjanin, J.; Dean, P. M., "Dual Functioning Ionic Liquids and Salts Thereof," PCT Int. Appl. WO 2010/078300 (07/08/10); U.S. Appl. US 2012/0046244 A1 (02/23/12); US 9278134 (03/08/16).
27. Daly, D. T.; Rogers, R. D.; Qin, Y. "Compositions Containing Recylable Ionic Liquids for Use in Biomass Processing," U.S. Appl. US 20120245336 A1 (09/27/12); US 9394375 B2 (07/19/16).
28. Rogers, R. D.; Barber, P. S.; Griggs, C. S.; Gurau, G.; Lu, X; Zhang, S. "Coagulation of Chitin from Solutions of Crustacean Shells in Ionic Liquids using Super-Critical CO_2," PCT Int. Appl. WO 2014125438 A1 (08/21/14); "Coagulation of biopolymers from ionic liquid solutions using CO_2," U.S. Appl. US 2015/0368371 (12/24/15); US 9663589 (05/30/17).
29. Swatloski, R. P.; Barber, P. S.; Opichka, T.; Bonner, J. R.; Gurau, G.; Griggs, C. S.; Rogers, R. D. "Process for Electrospinning Chitin Fibers from Chitinous Biomass Solution and Fibers and Articles Produced Thereby," PCT Int. Appl. WO 201401856 A1 (01/30/14); "Process for Electrospinning Chitin Fibers from Chitinous Biomass Solution," US 9683309 (06/20/17).
30. McCrary, P. D.; Rogers, R. D. "Hypergolic Salts with Borane Cluster Anions," U.S. Appl. US 20140373984 A1 (12/25/14); US 10099967 (10/16/18).
31. Barber, P. S.; Griggs, C. S.; Rogers, R. D. Shamshina, J. L.; Gurau, G. "Chemical pulping of chitinous biomass for chitin and treatment of biomass composition" U.S. Appl. US 20160060363 A1 (03/03/16); "Chemical pulping of chitinous biomass for chitin," US 10100131 (10/16/18).
32. Rogers, R. D.; Kore, R.; Uppara, P. V. "Methods of Acylation with an Ionic Liquid Catalyzing Medium," U.S. Appl. US 20180170847 A1 (06/21/18); US 10246395 (04/02/19).
33. Rogers, R. D.; Gurau, G.; Kelley, S. P.; Kore, R.; Shamshina, J. "Mixed metal double salt ionic liquids with tunable acidity," U.S. Appl. US 20170209858 A1 (07/27/17); US 10357762 (07/23/19).
34. Rogers, R. D.; Galpothdeniya, W. I. S.; Shamshina, J. L.; Zavgorodnya, O. "Coagulation of chitin from ionic liquid solutions using kosmotropic salts," U.S. Appl. US 20180194864 A1 (07/12/18); US 10927191 (02/23/21).
35. Rogers, R. D.; Zavgorodnya, O.; Shamshina, J. L. "Metal Particle-Chitin Composite Materials and Methods of Making Thereof," U.S. Appl. US 20180273710 A1 (09/27/18); US 10941258 (03/09/21).
36. Hanik, P.; Hanes, R. H.; Rogers, R. D.; Uppara, P. V.; Gurau, G. "Polymerization Compositions and Methods for Making and Using Same," U.S. Appl. US 20200002443 A1 (01/02/20); PCT Int. Appl. (2020), WO 2020226890 A1 (11/12/20); US 11370850 (06/28/22).
37. Friscic, T.; Rogers, R. D.; Arhangelskis, M.; Titi, H.; Gandrath, D.; Marrett, J. M. "Hypergolic metal organic frameworks," Can. Pat. Appl. CA 3055359 A1 (03/13/20); US Patent Appl. 16/570,307 (09/13/19); US Allowed.
38. Rogers, R. D.; Friscic, T.; Titi, H. "Preparation of hypergolic co-crystal material for production of hypergol," Can. Pat. Appl. CA 3083478 A1 (12/12/20); "Hypergolic Co-crystal Material and Method of Use Thereof," US Patent Appl. 16/900,241 (06/12/20); US Allowed.

Patent Applications:

1. Peterson, J. R.; Zjawiony, J. K.; Rogers, R. D. "Synthesis and Optical Resolution of the Taxol Side Chain and Related Compounds," PCT Int. Appl. WO 9310076 A1 (05/27/93).
2. Holbrey, J. B.; Turner, M. B.; Rogers, R. D. "Ionic liquids containing secondary hydroxyl-groups and a method for their preparation," PCT Int. Appl. WO 2005026179 A1 (03/24/05).

3. Daly, D. T.; Spear, S. K.; Frazier, R. M.; Hough-Troutman, W. L.; Rogers, R. D. "Substrates for Delivery of Physiologically Active Agents," PCT Int. Appl. WO 2009131692 A1 (10/29/09).
4. Rahman, M.; Sun, N.; Qin, Y.; Maxim, M. L.; Rogers, R. D. "Ionic Liquid Systems for the Processing of Biomass, Their Components and/or Derivatives, and Mixtures Thereof," PCT Int. Appl. WO 2010056790 A1 (05/20/10).
5. Frazier, R. M.; Daly, D. T.; Spear, S. K.; Rogers, R. D. "Exfoliation of Graphite using Ionic Liquids," PCT Int. Appl. WO 2010065346 A1 (06/10/10); U.S. Appl. US 20110319554 A1 (12/29/11).
6. Rogers, R. D.; Rijksen, C.; Daly, D. T.; Caldwell, K.; Caldwell, G.; Hough-Troutman, W. L.; Bica, K., "Compounds Comprising Two or More Biologically Functional Ions and Method of treating Parkinson's Disease," PCT Int. Appl. WO 2010078258 A1 (07/08/10).
7. Pernak, J.; Shamshina, J.; Praczyk, T.; Syguda, A.; Janiszewska, D.; Smiglak, M.; Gurau, G.; Daly, D. T.; Rogers, R. D. "Herbicidal Compositions and Methods of Use," PCT Int. Appl. WO 2012006313 A2 (01/12/12); U.S. Appl. US 20130109572 A1 (05/02/13).
8. Rogers, R. D.; Holbrey, J. "Ionic liquid solvents of perhalide type for metals for extraction of radioactive metals from mineral ores," PCT Int. Appl. WO 2010116167 A1 (10/14/10); U.S. Appl. US 20120090430 A1 (04/19/12).
9. Rogers, R. D.; Holbrey, J.; Rodriquez, H. "Process for removing metals from hydrocarbons," PCT Int. Appl. WO 2010116165 A2 (10/14/10); U.S. Appl. US 20120121485 A1 (05/17/12).
10. Riisager, A.; Fehrmann, R.; Rodriguez, R.; Bica, K.; Rogers, R. D.; Daly, D. T.; Gurau, G. "Biologically Active Compounds Supported on Solid Carrier such as Silica for Controlled Release and Improved Thermal Stability," PCT Int. Appl. WO 2011110662 (09/15/11); U.S. Appl. US 20130203602 A1 (08/08/13).
11. Rogers, R. D.; Daly, D. T.; Gurau, G. "Methods for dissolving polymers using mixtures of different ionic liquids and compositions comprising the mixtures," PCT Int. Appl. WO 2011056924 A2 (05/12/11); U.S. Appl. US 20120216705 A1 (08/30/12); U.S. Appl. US 20190040209 A1 (02/07/19).
12. Rogers, R. D.; Cooke, L. "Fungicidal Compositions and Methods of Use," PCT Int. Appl. WO 2012021825 (02/16/12); U.S. Appl. US 20130217735 A1 (8/22/13).
13. Riisager, A.; Fehrmann, R.; Rogers, R. D.; Gurau, G. "Enhancing the thermal stability of ionic compounds by immobilization on porous solid support," PCT Int. Appl. WO 2013030299 A1 (03/07/13); U.S. Appl. US 20140309419 A1 (10/16/14); "Method for enhancing the thermal stability of ionic compounds," U.S. Appl. US 20140309419 A1 (10/16/14).
14. Rogers, R. D.; Gurau, G.; Shamshina, J.; Daly, D. T. "Chitin and alginate composite fibers for wound dressings," PCT Int. Appl. WO 2014172703 A1 (10/23/14); "Chitin and Alginate Composite Fibers," U.S. Appl. US 20160082141 A1 (03/24/16).
15. Wang, H.-T.; Frazier, R. M.; Guo, L.; Quan, H.; McCrary, P. D.; Rogers, R. D. "Exfoliation of thermoelectric Materials and Transition Metal Dichalcogenides using Ionic Liquids," U.S. Appl. US 20150004733 A1 (01/01/15).
16. Rogers, R. D. "Nucleoside analog salts with improved solubility and methods of forming same," PCT Int. Appl. WO 2014145464 A1 (09/18/14); U.S. Appl. US 20160002240 (01/07/16).
17. Rogers, R. D.; Cojocaru, O. A.; Gurau, G.; Shamshina, J. L.; Pernak, J. "Double salt ionic liquids of herbicides," PCT Int. Appl. WO 2016077290 A1 (05/19/16); U.S. Appl. US 2017/0332633 A1 (11/23/17).
18. Bryant, S.; Stephenson, T.; Rogers, R. D.; Berton, P. "Deconstruction of Oil sand Materials Using Ionic Liquids," U.S. Prov. Appl. 62/454,406 (02/03/17); PCT Int. Appl. WO 2018141067 A1 (08/09/18).
19. Rughani, R.; Moreau, M.; Hitce, J.; Dalko, M.; Cavezza, A.; Blaise, C.; Rogers, R. D.; Rachiero, G. P.; Gurau, G. "Hair care compositions comprising thiolactic acid-based ionic liquids or ionic mixtures," PCT Int. Appl. WO 2018065827 A1 (04/12/18).
20. Rogers, R. D.; Zavgorodnya, O.; Shamshina, J. L.; Gurau, G. "Graphene-Biopolymer Composite Materials and Methods of Making Thereof," U.S. Appl. US 20180273700 A1 (09/27/18); PCT Int. Appl. WO 2018176037 A1 (09/27/18).
21. Baillie, B. W.; Berton, P.; Rogers, R. D.; Bryant, S. L. "Extraction and Recovery of Kerogen from Oil Shale using Ionic Liquids," US Appl. 62/741,199 (10/04/18).
22. Baillie, B. W.; Berton, P.; Rogers, R. D.; Bryant, S. L. "Extraction and Recovery of Organic Matter using Ionic Liquids," PCT Int. Appl. (2020), WO 2020069626 A1 (04/09/20); US 20220089956 A1 (03/24/22).

23. Rogers, R. D.; Kore, R.; Sawant, A. D.; Uppara, P. V. “Magnetic Particle - Ionic Liquid Composite Materials and Methods of Making and Use Thereof,” US 20190060883 A1 (02/28/19).
24. Rogers, R. D.; Zavgorodnya, O.; Shamshina, J. L.; Gurau, G. “Printing of Biopolymers from Ionic Liquid,” PCT Int. Appl. WO 2019173689 A1 (09/12/19).
25. Friscic, T.; Rogers, R. D.; Arhangelskis, M.; Titi, H.; Gandrath, D.; Marrett, J. M. “Hypergolic metal organic frameworks,” Can. Pat. Appl. CA 3055359 A1 (03/13/20); US Patent Appl. 62/730,5909 (09/13/18).
26. Di Bona, K. R.; Hill, C.M.; Gurau, G.; and Rogers, R. D. “Ionic liquid-based processes for the extraction of rare earth elements, critical materials, and other products from rare earth element-containing materials (including: coal, coal by-products, ore, waste), and generation of novel compositions thereof” U.S. Provisional Patent Application No. 62/993,141 (3/23/20).
27. Di Bona, K. R.; Hill, C.M.; Gurau, G.; and Rogers, R. D. “Ionic liquid-based processes for extraction metals” PCT/US2022/021519 (03/23/22); WO 2022204265 A1 (9/29/22).
28. Toledo Hijo, A. A. C.; Meirelles, A. J. A.; Gurau, G.; Rogers, R. D. “Processo de Obtenção de Composições Nutracêuticas e Composições Nutracêuticas Assim Obtidas (Process for Preparation of Nutraceutical Compositions and Nutraceutical Compositions Obtained),” Brazil Patent Application BR 10 2020 026974 7, (12/29/20); WO 2022/140825 (07/07/22).
29. Rogers, R. D.; Friscic, T.; Titi, H. “Preparation of hypergolic co-crystal material for production of hypergol,” Can. Pat. Appl. CA 3083478 A1 (12/12/20).
30. Fanai, C; Pugsley, T.; Bogatkov, D.; Qi, Y.; Matuszek, K.; MacFarlane, D. R.; Chafee, A. L.; Berton, P.; Rogers, R. D.; Bryant, S. L. “Upgrading of Heavy Oil or Heavy Oil-Derived Product with Ionic Liquids,” Can. Pat. Appl. CA 3,111,226 (03/04/21); U.S. Appl. US20210277315 A1 (09/09/21).

A. Refereed Publications:

1. Atwood, J. L.; Rogers, R. D.; Kutal, C.; Grutsch, P. A. "X-ray Crystallographic Characterization of the Single Hydrogen Bridge Attachment of the Tetrahydroborate Group in Tris(methyldiphenylphosphine)tetrahydroboratecopper," *J. Chem. Soc., Chem. Comm.* **1977**, 593-594. **DOI:** 10.1039/C3977000593B.
2. Atwood, J. L.; Crissinger, K. D.; Rogers, R. D. "The Synthesis of $M[Al_2(CH_3)_6NO_3]$ ($M^+ = K^+, Rb^+, Cs^+, NR_4^+$) and the Crystal Structures of $K[Al_2(CH_3)_6NO_3]$ and $K[Al(CH_3)_3NO_3]\bullet C_6H_6$," *J. Organomet. Chem.* **1978**, *155*, 1-14.
3. Atwood, J. L.; Hunter, W. E.; Rogers, R. D.; Holton, J.; McMeeking, J.; Pearce, R.; Lappert, M. F. "Neutral and Anionic Silylmethyl Complexes of the Group 3a and Lanthanoid Metals; the X-ray Crystal and Molecular Structure of $[Li(thf)_4][Yb\{CH(SiMe_3)_2\}_3Cl]$ (thf = Tetrahydrofuran)," *J. Chem. Soc., Chem. Comm.* **1978**, 140-142.
4. Atwood, J. L.; Rogers, R. D.; Hunter, W. E.; Bernal, I.; Brunner, H.; Lukas, R.; Schwarz, W. "X-ray Structure of $[(\eta^5\text{-}C_5H_5)W(CO)_2C_{15}H_{15}]$: a Compound Containing Three Unusually Bonded Five-membered Rings," *J. Chem. Soc., Chem. Comm.* **1978**, 451-452.
5. Guzman, E. C.; Wilkinson, G.; Atwood, J. L.; Rogers, R. D.; Hunter, W. E.; Zaworotko, M. J. "Synthesis and Molecular Structures of Chloro(trimethylphosphine)tris(trimethylsilylmethyl)molybdenum(IV) and Di-μ-Chloro-bis[η^2-trimethylsilylmethylcarbonylbis(carbonyl)trimethylphosphinemolybdenum(II)]," *J. Chem. Soc., Chem. Comm.* **1978**, 465-466.
6. Kutal, C.; Grutsch, P.; Atwood, J. L.; Rogers, R. D. "Structural Characterization of the Single Hydrogen Bridge Attachment of the Tetrahydroborate Group in Tris(methyldiphenylphosphine)(tetrahydroborato)copper," *Inorg. Chem.* **1978**, *17*, 3558-3562.
7. Mattia, J.; Humphrey, M. B.; Rogers, R. D.; Atwood, J. L.; Rausch, M. D. "Syntheses and Molecular Structures of Two Metalloindene Complexes: 1,1-Bis(η^5-cyclopentadienyl)-2,3-bis(pentafluorophenyl)benzotitanole and 1,1-Bis(η^5-cyclopentadienyl)-2-trimethylsilyl-3-phenylbenzotitanole," *Inorg. Chem.* **1978**, *17*, 3257-3264.
8. Rogers, R. D.; Atwood, J. L.; Grüning, R. "The Crystal Structure of *N*-Lithiohexamethyldisilazane, $[LiN(SiMe_3)_2]_3$," *J. Organomet. Chem.* **1978**, *157*, 229-237. **DOI:** 10.1016/S0022-328X(00)92291-5
9. Rogers, R. D.; Bynum, R. V.; Atwood, J. L. "Crystal and Molecular Structure of Tetra(cyclopentadienyl)zirconium," *J. Am. Chem. Soc.* **1978**, *100*, 5238-5239. **DOI:** 10.1021/ja00484a069.
10. Atwood, J. L.; Hunter, W. E.; Rogers, R. D.; Carmona-Guzman, E.; Wilkinson, G. "The Crystal Structures of $MoMe_2(\eta^6\text{-}C_6H_6)(PPhMe_2)_2$ and $MoMe_2(\eta^6\text{-}C_6H_5Me)(PPhMe_2)_2$," *J. Chem. Soc., Dalton Trans.* **1979**, 1519-1523. **DOI:** 10.1039/DT9790001519.
11. Rogers, R. D.; Atwood, J. L. "Interaction of Aromatic Hydrocarbons with Organometallic Compounds of the Main Group Elements: VI. Synthesis and Crystal Structure of Cesium Diododimethylaluminate *p*-Xylene Solvate, $Cs[Al(CH_3)_2I_2]\bullet C_6H_4(CH_3)_2$," *J. Cryst. Mol. Struct.* **1979**, *9*, 45-53. **DOI:** 10.1007/BF01370925
12. Rogers, R. D.; Cook, W. J.; Atwood, J. L. "Ferrocenylalanes. 3. Synthesis and Crystal Structure of $(\eta^5\text{-}C_5H_5)Fe[\eta^5\text{-}C_5H_4Al_2(CH_3)_4Cl]$," *Inorg. Chem.* **1979**, *18*, 279-282. **DOI:** 10.1021/ic50192a014
13. Sikora, D. J.; Rausch, M. D.; Rogers, R. D.; Atwood, J. L. "Structure and Reactivity of the First Hafnium Carbonyl, $(\eta^5\text{-}C_5H_5)_2Hf(CO)_2$," *J. Am. Chem. Soc.* **1979**, *101*, 5079-5081. **DOI:** 10.1021/ja00511a056
14. Atwood, J. D.; Janik, T. S.; Atwood, J. L.; Rogers, R. D. "Synthesis of Bis(benzene)tetracarbonyldivanadium, $(C_6H_6)_2V_2(CO)_4$," *Synth. React. Inorg. Met.-Org. Chem.* **1980**, *10*, 397-402. **DOI:** 10.1080/00945718008058251
15. Atwood, J. L.; Rogers, R. D.; Hunter, W. E.; Floriani, C.; Fachinetti, G.; Chiesi-Villa, A. "Crystal and Molecular Structure of Two Early Transition-Metal Dicarbonyldicyclopentadienyl Complexes: $(\eta^5\text{-}C_5H_5)_2Zr(CO)_2$ and $[(\eta^5\text{-}C_5H_5)_2V(CO)_2][B(C_6H_5)_4]$," *Inorg. Chem.* **1980**, *19*, 3812-3817. **DOI:** 10.1021/ic50214a044
16. Bynum, R. V.; Hunter, W. E.; Rogers, R. D.; Atwood, J. L. "Pyrrolyl Complexes of the Early Transition Metals. 1. Synthesis and Crystal Structure of $(\eta^5\text{-}C_5H_5)_2Ti(\eta^1\text{-}NC_4H_4)_2$, $(\eta^5\text{-}C_5H_5)_2Zr(\eta^1\text{-}NC_4H_4)_2$, and $[Na(THF)_6]_2[Zr(\eta^1\text{-}NC_4H_4)_6]$," *Inorg. Chem.* **1980**, *19*, 2368-2374. **DOI:** 10.1021/ic50210a039
17. Carmona, E.; González, F.; Poveda, M. L.; Atwood, J. L.; Rogers, R. D. "Alkyl and Acyl Derivatives of Nickel(II) containing Tertiary Phosphine Ligands," *J. Chem. Soc., Dalton Trans.* **1980**, 2108-2116. **DOI:** 10.1039/DT9800002108
18. Çetinkaya, B.; Gümrükçü, I.; Lappert, M. F.; Atwood, J. L.; Rogers, R. D.; Zaworotko, M. J. "Bivalent Germanium, Tin, and Lead 2,6-Di-*tert*-butylphenoxides and the Crystal and Molecular Structures of $M(OC_6H_2Me\text{-}4\text{-}Bu^t_2\text{-}2,6)_2$ (M = Ge or Sn)," *J. Am. Chem. Soc.* **1980**, *102*, 2088-2089. **DOI:** 10.1021/ja00526a054
19. Daniels, P. H.; Wong, J. L.; Atwood, J. L.; Canada, L. G.; Rogers, R. D. "Unreactive 1-Azadiene and Reactive 2-Azadiene in Diels-Alder Reaction of Pentachloroazacyclopentadienes," *J. Org. Chem.* **1980**, *45*, 435-440. **DOI:** 10.1021/jo01291a011
20. Guzman, E. C.; Wilkinson, G.; Rogers, R. D.; Hunter, W. E.; Zaworotko, M. J.; Atwood, J. L. "Synthesis and Crystal Structures of Chloro(trimethylphosphine)tris(trimethylsilylmethyl)molybdenum(IV) and Di-μ-chloro-bis[bis(carbonyl)trimethylphosphine(1-2-η-trimethylsilylmethylcarbonyl)molybdenum(II)]," *J. Chem. Soc., Dalton Trans.* **1980**, 229-234. **DOI:** 10.1039/DT9800000229
21. Paulson, J. A.; Krost, D. A.; McPherson, G. L.; Rogers, R. D.; Atwood, J. L. "Structural, Spectroscopic, and Theoretical Studies of an Exchange-Coupled Manganese(II)-Copper(II) Dimer," *Inorg. Chem.* **1980**, *19*, 2519-2525. **DOI:** 10.1021/ic50211a007
22. Rogers, R. D.; Bynum, R. V.; Atwood, J. L. "Synthesis and Structure of $(\eta^5\text{-}C_5H_5)_3Gd\bullet OC_4H_8$," *J. Organomet. Chem.* **1980**, *192*, 65-73. **DOI:** 10.1016/S0022-328X(00)93331-X
23. Rogers, R. D.; Hunter, W. E.; Atwood, J. L. "Nature of the Novel $C_{15}H_{15}$ Ligand in $[W(CO)_2(\eta^5\text{-}C_5H_5)(\eta^3\text{-}C_{15}H_{15})]$," *J. Chem. Soc., Dalton Trans.* **1980**, 1032-1035. **DOI:** 10.1039/DT9800001032
24. Rogers, R. D.; Stone, L. B.; Atwood, J. L. "Tetramethylammonium Iodotrimethylaluminate $[NMe_4][AlMe_3I]$," *Cryst. Struct.*

Comm. **1980**, *9*, 143-146.
25. Atwood, J. L.; Hrncir, D. C.; Rogers, R. D.; Howard, J. A. K. "Novel Linear Al-H-Al Electron-Deficient Bond in Na[$(CH_3)_3$Al-H-Al$(CH_3)_3$]," *J. Am. Chem. Soc.* **1981**, *103*, 6787.
26. Calderazzo, F.; Vitali, D.; Mavani, I. P.; Marchetti, F.; Bernal, I.; Korp, J. D.; Atwood, J. L.; Rogers, R. D.; Dalton, M. S. "Preparation, Properties, and Crystal and Molecular Structures of Bis(dialkylamine) Complexes of Rhenium(I)," *J. Chem. Soc., Dalton Trans.* **1981**, 2523-2528.
27. Calderazzo, F.; Vitali, D.; Poli, R.; Atwood, J. L.; Rogers, R. D.; Cummings, J. M.; Bernal, I. "Studies on Organometallic Hetero-multiple-bridged Molecules. Part 7. Synthesis and Properties of Dichalcogenide-bridged Complexes of Rhenium(I) and the Crystal and Molecular Structures of the Diphenyl Ditelluride-bridged Complex, [$Re_2Br_2(CO)_6(Te_2Ph_2)$]," *J. Chem. Soc., Dalton Trans.* **1981**, 1004-1009.
28. Carmona, E.; González, F.; Poveda, M. L.; Atwood, J. L.; Rogers, R. D. "Synthesis and Properties of Dialkyl Complexes of Nickel(II). The Crystal Structure of Bis(pyridine)bis(trimethylsilymethyl)nickel(II)," *J. Chem. Soc., Dalton Trans.* **1981**, 777-782.
29. Hrncir, D. C.; Rogers, R. D.; Atwood, J. L. "New Bonding Mode for a Bridging Dioxygen Ligand: Crystal and Molecular Structure of [K•dibenzo-18-crown-6][$Al_2(CH_3)_6O_2$]•1.5C_6H_6," *J. Am. Chem. Soc.* **1981**, *103*, 4277.
30. Liese, W.; Dehnicke, K.; Rogers, R. D.; Shakir, R.; Atwood, J. L. "A Spectroscopic and Crystallographic Study of the [$ReNCl_4$]$^-$ Ion," *J. Chem. Soc., Dalton Trans.* **1981**, 1061-1063.
31. Rogers, R. D.; Atwood, J. L.; Emad, A.; Sikora, D. J.; Rausch, M. D. "The Formation and Molecular Structures of (η^5-$C_5H_5)_3$Y•OC_4H_8 and (η^5-$C_5H_5)_3$La•OC_4H_8," *J. Organomet. Chem.* **1981**, *216*, 383-392.
32. Rogers, R. D.; Atwood, J. L.; Foust, D.; Rausch, M. D. "The Crystal Structure of Vanadocene, (η^5-$C_5H_5)_2$V," *J. Cryst. Mol. Struct.* **1981**, *11*, 183-188.
33. Rogers, R. D.; Bynum, R. V.; Atwood, J. L. "First Authentic Example of a Difference in the Structural Organometallic Chemistry of Zirconium and Hafnium: Crystal and Molecular Structure of (η^5-$C_5H_5)_2$Hf(η^1-$C_5H_5)_2$," *J. Am. Chem. Soc.* **1981**, *103*, 692.
34. Rogers, R. D.; Kalyanaraman, B.; Dalton, M. S.; Smith, W.; Kispert, L. D.; Atwood, J. L. "Crystal Structure of Bromoflouroacetic Acid: A Chiral Molecule," *Journal of Crystal and Molecular Stucture* **1981**, *11*, 105-111.
35. Sikora, D. J.; Rausch, M. D.; Rogers, R. D.; Atwood, J. L. "Formation and Molecular Structure of Bis(η^5-cyclopentadienyl)bis(triflourophosphine)titanium," *J. Am. Chem. Soc.* **1981**, *103*, 982-984.
36. Sikora, D. J.; Rausch, M. D.; Rogers, R. D.; Atwood, J. L. "New Syntheses and Molecular Structures of the Decamethylmetallocene Dicarbonyls (η^5-$C_5Me_5)_2$M$(CO)_2$ (M = Ti, Zr, Hf)," *J. Am. Chem. Soc.* **1981**, *103*, 1265-1267.
37. Atwood, J. L.; Honan, M. B.; Rogers, R. D. "Crystal and Molecular Structure of (η^5-C_5H_5)Ta(η^2-C_2H_4)$Cl_2(PMe_2Ph)_2$, a Sterically Crowded Molecule which Exhibits a Distorted η^5-Coordination Mode of the Cyclopentadienyl Ligand," *J. Crystallogr. Spectrosc. Res.* **1982**, *12*, 205-221.
38. Atwood, J. L.; Hrncir, D. C.; Shakir, R.; Dalton, M. S.; Priester, R. D.; Rogers, R. D. "Reaction of Trimethylaluminum with Crown Ethers. The Synthesis and Structure of (Dibenzo-18-crown-6)bis(trimethylaluminum) and of (15-Crown-5)tetrakis(trimethylaluminum)," *Organometallics* **1982**, *1*, 1021-1025.
39. Carmona, E.; Marín, J. M.; Poveda, M. L.; Atwood, J. L.; Rogers, R. D.; Wilkinson, G. "Bis(dinitrogen)- and Diethylene-molydenum(0) Complexes," *Angew. Chem. Int. Ed. Engl.* **1982**, *21*, 441-442.
40. Carmona, E.; Marin, J. M.; Poveda, M. L.; Rogers, R. D.; Atwood, J. L. "Preparation and Properties of Dinitrogen Complexes of Molybdenum and Tungsten with Trimethylphosphine as Coligand. III. Synthesis and Properties of *cis*-[$W(N_2)_2(PMe_3)_4$], *trans*-[$W(C_2H_4)_2(PMe_3)_4$] and [$M(N_2)(PMe_3)_5$] (M = Mo, W). The Crystal and Molecular Structure of [$Mo(N_2)(PMe_3)_5$]," *J. Organomet. Chem.* **1982**, *238*, C63-C66.
41. Foust, D. F.; Rogers, R. D.; Rausch, M. D.; Atwood, J. L. "Photoinduced Reactions of (η^5-$C_5H_5)_2MH_3$ and (η^5-$C_5H_5)_2$M(CO)H (M = Nb, Ta) and the Molecular Structure of (η^5-$C_5H_5)_2$Ta(CO)H," *J. Am. Chem. Soc.* **1982**, *104*, 5646-5650.
42. Jones, R. A.; Stuart, A. L.; Atwood, J. L.; Hunter, W. E.; Rogers, R. D. "Steric Effects of Phosphido Ligands. Synthesis and Crystal Structure of Di-*tert*-butylphosphido-Bridged Dinuclear Metal-Metal Bonded Complexes of Fe(II), Co(I, II), and Ni(I)," *Organometallics* **1982**, *1*, 1721–1723.
43. Rausch, M. D.; Edwards, B. H.; Atwood, J. L.; Rogers, R. D. "Formation and Molecular Structure of (η^4-Tetraphenylcyclobutadiene)dicarbonylnitrosylmanganese," *Organometallics* **1982**, *1*, 1567-1571.
44. Rogers, R. D.; Atwood, J. L.; Rausch, M. D.; Macomber, D. W.; Hart, W. P. "The Formation and Molecular Structure of Acetylcyclopentadienylsodium•tetrahydrofuranate," *J. Organomet. Chem.* **1982**, *238*, 79-85.
45. Rogers, R. D.; Bynum, R. V.; Atwood, J. L. "Synthesis and Crystal Structure of [(η^5-$C_5H_5)_2$HfO]$_3$•C_6H_5Me," *J. Crystallogr. Spectrosc. Res.* **1982**, *12*, 239-244.
46. Zaworotko, M. J.; Rogers, R. D.; Atwood, J. L. "Interaction of Trimethylaluminum and Trimethylgallium with the Acetate Ion. Synthesis and Crystal Structures of [$N(CH_3)_4$][$Al_2(CH_3)_6CH_3COO$] and Rb[$Ga_2(CH_3)_6CH_3COO$]," *Organometallics* **1982**, *1*, 1179-1183.
47. Atwood, J. L.; Bernal, I.; Calderazzo, F.; Canada, L. G.; Poli, R.; Rogers, R. D.; Veracini, C. A.; Vitali, D. "Studies on Organometallic Hetero-Multiple-Bridged Molecules. 8. Preparation and Crystal and Molecular Structures of Diphenyl Dichalcogenide Complexes of Manganese(I). Kinetic, Spectroscopic, and Equilibrium Data: A Quantitative Assessment of the Solid-State and Solution Properties within Members of Homogeneous Families of Chalcogenide Low-Valent Metal Complexes," *Inorg. Chem.* **1983**, *22*, 1797-1804.
48. Atwood, J. L.; Hrncir, D. C.; Priester, R. D.; Rogers, R. D. "Decomposition of High-Oxygen Content Organoaluminum Compounds. The Formation and Structure of the [$Al_7O_6Me_{16}$]$^-$ Anion," *Organometallics* **1983**, *2*, 985-989.

49. Atwood, J. L.; Hrncir, D. C.; Rogers, R. D. "The Use of Crown Ethers to Access New $M[Al_2R_6X]$ Species. Synthesis and Crystal Structure of [K•dibenzo-18-crown-6]$[Al_2Me_6C1]$•$2C_6H_6$," *J. Inclusion Phenom.* **1983**, *1*, 199-207.
50. Atwood, J. L.; Priester, R. D.; Rogers, R. D.; Canada, L. G. "Reaction of Trimethylaluminum with Crown Ethers. II. The Synthesis and Crystal Structure of (Dibenzo-18-crown-6)tris(trimethylaluminum) and of (18-Crown-6)tetrakis(trimethylaluminum)," *J. Inclusion Phenom.* **1983**, *1*, 61-69.
51. Carmona, E.; González, F.; Poveda, M. L.; Marin, J. M.; Atwood, J. L.; Rogers, R. D. "Reaction of *cis*-$[Mo(N_2)_2(PMe_3)_4]$ with CO_2. Synthesis and Characterization of Products of Disproportionation and the X-ray Structure of a Tetrametallic Mixed-Valence Mo^{II}-Mo^{V} Carbonate with a Novel Mode of Carbonate Binding," *J. Am. Chem. Soc.* **1983**, *105*, 3365-3366.
52. Carmona, E.; Marin, J. M.; Poveda, M. L.; Atwood, J. L.; Rogers, R. D. "Preparation and Properties of Dinitrogen Trimethylphosphine Complexes of Molybdenum and Tungsten. 4. Synthesis, Chemical Properties, and X-ray Structure of *cis*-$[Mo(N_2)_2(PMe_3)_4]$. The Crystal and Molecular Structures of *trans*-$[Mo(C_2H_4)_2(PMe_3)_4]$ and *trans*, *mer*-$[Mo(C_2H_4)_2(CO)(PMe_3)_3]$," *J. Am. Chem. Soc.* **1983**, *105*, 3014-3022.
53. Carmona, E.; Marín, J. M.; Poveda, M. L.; Atwood, J. L.; Rogers, R. D. "Preparation and Properties of Dinitrogen Trimethylphosphine Complexes of Molybdenum and Tungsten-II. Synthesis and Crystal Structures of $[MCl(N_2)(PMe_3)_4]$(M = Mo, W) and *trans*-$[MoCl_2(PMe_3)_4]$," *Polyhedron* **1983**, *2*, 185-193.
54. Carmona, E.; Marín, J. M.; Poveda, M. L.; Sánchez, L.; Rogers, R. D.; Atwood, J. L. "Synthesis of Chloro(trimethylphosphine)tris(trimethylsilymethyl)tungsten(IV); Synthesis and Molecular Structure of Di-μ-chloro-bis[dicarbonyl(trimethylphosphine)(1-2-η-trimethylsilylmethylcarbonyl)tungsten(II)]," *J. Chem. Soc., Dalton Trans.* **1983**, 1003-1005.
55. Carmona, E.; Sánchez, L.; Poveda, M. L.; Marín, J. M.; Atwood, J. L.; Rogers, R. D. "β-C-H Interaction vs. Dihaptoacyl Co-ordination in a Molybdenum Acetyl Complex. X-ray Crystal Structure of $[Mo(Ac)(S_2CNMe_2)(CO)(PMe_3)_2]$," *J. Chem. Soc., Chem. Comm.* **1983**, 161-162.
56. Edwards, B. H.; Rogers, R. D.; Sikora, D. J.; Atwood, J. L.; Rausch, M. D. "Formation, Reactivities, and Molecular Structures of Phosphine Derivatives of Titanocene. Isolation and Characterization of a Titanium Monoolefin π Complex," *J. Am. Chem. Soc.* **1983**, *105*, 416-426.
57. Herrmann, W. A.; Plank, J.; Hubbard, J. L.; Kriechbaum, G. W.; Kalcher, W.; Koumbouris, B.; Ihl, G.; Schäfer, A.; Ziegler, M. L.; Pfisterer, H.; Pahl, C.; Atwood, J. L.; Rogers, R. D. "Transition Metal Methylene Complexes, LI. Carbocyclic Carbenes, Carbene Bridges, Small Hydrocarbon Ligands, and Metallacycles: Examples of a General Synthetic Concept," *Z. Naturforsch., B: Chem. Sci.* **1983**, *38b*, 1392-1398.
58. Lappert, M. F.; Slade, M. J.; Singh, A.; Atwood, J. L.; Rogers, R. D.; Shakir, R. "Structure and Reactivity of Sterically Hindered Lithium Amides and Their Diethyl Etherates: Crystal and Molecular Structures of $[Li\{N(SiMe_3)_2\}(OEt_2)]_2$ and $[Li(NCMe_2CH_2CH_2CH_2CMe_2)]_4$," *J. Am. Chem. Soc.* **1983**, *105*, 302-304.
59. Rausch, M. D.; Edwards, B. H.; Rogers, R. D.; Atwood, J. L. "Formation of [(Diphenylphosphino)cyclopentadienyl]thallium and Its Utility in the Synthesis of Heterobimetallic Ti-Mn Complexes: The Molecular Structure of (η^5-Cyclopentadienyl)dicarbonyl{(η^5- cyclopentadienyl)[η^5-(diphenylphosphino)cyclopentadienyl]dichlorotitanium-P}manganese]," *J. Am. Chem. Soc.* **1983**, *105*, 3882-3886.
60. Rogers, R. D.; Atwood, J. L. "The Crystal and Molecular Structure of $SnBr[N(SiMe_3)_2]_3$," *J. Crystallogr. Spectrosc. Res.* **1983**, *13*, 1-7.
61. Atwood, J. L.; McMaster, A. D.; Rogers, R. D.; Stobart, S. R. "Stereochemically Nonrigid Silanes, Germanes, and Stannanes. 12. Crystal and Molecular Structures of Tetrakis(η^1-indenyl) Derivatives of Germanium and Tin: Meso Diastereoisomers with S_4 Symmetry," *Organometallics* **1984**, *3*, 1500-1504.
62. Atwood, J. L.; Rogers, R. D.; Bynum, R. V. "Tris(1,2-dimethoxyethane)lithium μ-Chloro-μ-oxo-bis[chloro(pentamethylcyclopentadienyl)(1-pyrrolyl)zirconate(IV)] Dimethoxyethane Solvate, $[Li(C_4H_{10}O_2)_3][Zr_2Cl_3O(C_4H_4N)_2(C_{10}H_{15})_2]$•$C_4H_{10}O_2$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1984**, *C40*, 1812-1814.
63. Carmona, E.; Paneque, M.; Poveda, M. L.; Rogers, R. D.; Atwood, J. L. "Further Studies on Organonickel Compounds: The Synthesis of Some New Alkyl-, Acyl- and Cyclopentadienyl- Derivatives and the Crystal Structure of *trans*-$[Ni(CH_2SiMe_3)_2(PMe_3)_2]$," *Polyhedron* **1984**, *3*, 317-323.
64. Carmona, E.; Sánchez, L.; Marín, J. M.; Poveda, M. L.; Atwood, J. L.; Priester, R. D.; Rogers, R. D. "η^2-Acyl Coordination and β-C-H Interaction in Acyl Complexes of Molybdenum. Crystal and Molecular Structures of $Mo(\eta^2\text{-}COCH_2SiMe_3)Cl(CO)(PMe_3)_3$ and $Mo(COCH_3)(S_2CNMe_2)(CO)(PMe_3)_2$," *J. Am. Chem. Soc.* **1984**, *106*, 3214-3222.
65. Herrmann, W. A.; Plank, J.; Kriechbaum, G. W.; Ziegler, M. L.; Pfisterer, H.; Atwood, J. L.; Rogers, R. D. "Komplexchemie Reaktiver Organischer Verbindungen XLVII. Synthese, Strukturchemie und Druckcarbonylierung von Metallcarben-Komplexen," *J. Organomet. Chem.* **1984**, *264*, 327-352.
66. Rausch, M. D.; Foust, D. F.; Rogers, R. D.; Atwood, J. L. "The Formation and Molecular Structure of Di-η^5-cyclopentadienyl{2-[(dimethylamino)methyl]phenyl-C,N}yttrium," *J. Organomet. Chem.* **1984**, *265*, 241-248.
67. Rogers, R. D.; Atwood, J. L. "The Crystal and Molecular Structure of [K•DB-18-C- 6]$[AlMe_3NO_3]$•$0.5C_6H_6$," *J. Crystallogr. Spectrosc. Res.* **1984**, *14*, 1-11.
68. Rogers, R. D.; Atwood, J. L. "Reaction of K_2SO_4 with $AlMe_3$ and the Crystal Structures of $K_2[Al_4Me_{12}SO_4]$ and $K_2[Al_4Me_{12}SO_4]$•0.5*p*-xylene," *Organometallics* **1984**, *3*, 271-274.
69. Rogers, R. D.; Atwood, J. L.; Albright, T. A.; Lee, W. A.; Rausch, M. D. "Structure of (Biphenylene)- and (Triphenylene)$Cr(CO)_3$. An Analysis of the Bonding of $Cr(CO)_3$ to Bicyclic Polyenes," *Organometallics* **1984**, *3*, 263-270.

70. Rogers, R. D.; Baker, J. C.; Atwood, J. L. "The Crystal Structure of $[NBu^n_4][AlI_4]$," *J. Crystallogr. Spectrosc. Res.* **1984**, *14*, 333-339.
71. Rogers, R. D.; Bynum, R. V.; Atwood, J. L. "Synthesis and Structure of $(\eta^5\text{-}C_5H_5)_2Hf(\eta^1\text{-}NC_4H_4)_2$," *J. Crystallogr. Spectrosc. Res.* **1984**, *14*, 21-28.
72. Rogers, R. D.; Bynum, R. V.; Atwood, J. L. "The Crystal Structure of $LiBr\bullet(CH_3OCH_2CH_2OCH_3)_2$," *J. Crystallogr. Spectrosc. Res.* **1984**, *14*, 29-34.
73. Rogers, R. D.; Carmona, E.; Galindo, A.; Atwood, J. L.; Canada, L. G. "Trimethylphosphine Complexes of Molybdenum and Tungsten. The Synthesis and Chemical Properties of $MoCl_4(PMe_3)_3$ and the Crystal and Molecular Structures of $WCl_4(PMe_3)_3$ and $MoO(acac)_2PMe_3$," *J. Organomet. Chem.* **1984**, *277*, 403-415.
74. Rogers, R. D.; Hrncir, D. C. "Structure of $(\eta^5\text{-Cyclopentadienyl})(\eta^6\text{-tetraphenylborato})$iron, $[Fe(C_5H_5)\{B(C_6H_5)_4\}]$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1984**, *C40*, 1160-1161.
75. Rogers, R. D.; Isci, H.; Mason, W. R. "Structure of Tetra(*n*-butyl)ammonium Tetraiodo-μ,μ'-diiododiplatinate(II), $[(n\text{-}C_4H_9)_4N]_2[Pt_2I_6]$," *J. Crystallogr. Spectrosc. Res.* **1984**, *14*, 383-392.
76. Samuel, E.; Rogers, R. D.; Atwood, J. L. "Synthesis and Crystal Structure of $[(\eta^5\text{- }C_9H_{11})TiCl(\mu\text{-}O)]_4$," *J. Crystallogr. Spectrosc. Res.* **1984**, *14*, 573-579.
77. Solar, J. M.; Rogers, R. D.; Mason, W. R. "Synthesis of Some Alkyl Phosphite Complexes of Platinum and Their Structural and Spectral Characterization," *Inorg. Chem.* **1984**, *23*, 373-377.
78. Wayda, A. L.; Dye, J. L.; Rogers, R. D. "Divalent Lanthanoid Synthesis in Liquid Ammonia. 1. The Synthesis and X-ray Structure of $(C_5Me_5)_2Yb(NH_3)(THF)$," *Organometallics* **1984**, *3*, 1605-1610.
79. Atwood, J. L.; Hunter, W. E.; Rogers, R. D.; Weeks, J. A. "Behavior of $M[Al_2Me_6N_3]$ (M = K, Rb, Cs) with Aromatic Solvents and the Crystal Structures of $Cs[Al_2Me_6N_3]$ 2*p*-xylene and $[K\bullet$dibenzo-18-crown-6$][Al_2Me_6N_3]\bullet$1.5(1-methylnaphthalene)," *J. Inclusion Phenom.* **1985**, *3*, 113-123.
80. Carmona, E.; Galindo, A.; Poveda, M. L.; Rogers, R. D. "Synthesis and Properties of *cis*-Bis(dinitrogen)tetrakis(trimethylphosphine)tungsten(0). Crystal and Molecular Structures of $[W(N_2)(PMe_3)_5]$ and *trans*-$[W(C_2H_4)_2(PMe_3)_4]$," *Inorg. Chem.* **1985**, *24*, 4033-4039.
81. Kool, L. B.; Rausch, M. D.; Rogers, R. D. "The Formation, Crystal and Molecular Structure of $(\eta^5\text{-}$Pentamethylcyclopentadienyl$)(\eta^7\text{-}$cycloheptatrienyl)titanium and $(\eta^5\text{- }$Pentamethylcyclopentadienyl$)(\eta^8\text{-}$cyclooctatetraene)titanium," *J. Organomet. Chem.* **1985**, *297*, 289-299.
82. Macomber, D. W.; Rogers, R. D. "Preparation and Reactivity of Mononuclear $(\eta^5\text{-Cyclopentadienyl})$cobalt Carbene Complexes," *Organometallics* **1985**, *4*, 1485-1487.
83. Medley, J. H.; Fronczek, F. R.; Ahmad, N.; Day, M. C.; Rogers, R. D.; Kerr, C. R.; Atwood, J. L. "The Crystal Structures of $NaAlR_4$, R = Methyl, Ethyl, and *n*-Propyl," *J. Crystallogr. Spectrosc. Res.* **1985**, *15*, 99-107.
84. Rogers, R. D.; Benning, M. M.; Kurihara, L. K.; Moriarty, K. J.; Rausch, M. D. "The Formation and Crystal and Molecular Structures of $(\eta^5\text{-}$Pentamethylcyclopentadienyl$)(\eta^5\text{- }$cyclopentadienyl)dichloro-titanium, -zirconium and -hafnium," *J. Organomet. Chem.* **1985**, *293*, 51-60.
85. Vaughn, J. W.; Rogers, R. D. "Structure of *trans*-difluorobis(1,3- propanediamine)chromium(III) perchlorate, *trans*-$[Cr(N_2C_3H_{10})_2F_2](ClO_4)$," *J. Crystallogr. Spectrosc. Res.* **1985**, *15*, 281-287.
86. Wayda, A. L.; Rogers, R. D. "Synthesis, X-ray Crystal Structures, and Reaction Chemistry of Homoleptic and Heteroleptic Organolanthanoid Complexes Incorporating the [(Dimethylamino)methyl]phenyl Ligand," *Organometallics* **1985**, *4*, 1440-1444.
87. Macomber, D. W.; Rogers, R. D. "The Formation and Molecular Structure of $(\eta^5\text{-}C_5H_5)Rh(CO)[C(NMe)CH_2CH_2(NMe)]$," *J. Organomet. Chem.* **1986**, *308*, 353-360.
88. Rogers, R. D.; Green, L. M. "A Reinvestigation of the Crystal and Molecular Structure of (18-Crown-6)$\bullet 2CH_3NO_2$: D_{3d} Stabilization Via Methyl Hydrogen-Crown Oxygen 'Hydrogen Bonds'," *J. Inclusion Phenom.* **1986**, *4*, 77-84.
89. Rogers, R. D.; Green, L. M.; Benning, M. M. "Crystal and Molecular Structure of a Dinuclear Uranyl(VI) Chloride, $[UO_2Cl_2(THF)_2]_2$," *Lanthanide Actinide Res.* **1986**, *1*, 185-193.
90. Rogers, R. D.; Kurihara, L. K. "f-Element/Crown Ether Complexes. 1. Synthesis and Structure of $[Y(OH_2)_8]Cl_3\bullet$(15-crown-5)," *Inorg. Chim. Acta* **1986**, *116*, 171-177.
91. Rogers, R. D.; Kurihara, L. K. "Crystal Structures of Dichlorohexaaquayttrium(III) Chloride, $[YCl_2(OH_2)_6]Cl$, and Dichlorohexaaquaerbium(III) Chloride, $[ErCl_2(OH_2)_6]Cl$," *Lanthanide Actinide Res.* **1986**, *1*, 295-306.
92. Rogers, R. D.; Kurihara, L. K. "f-Element/Crown Ether Complexes 2. The Synthesis and Crystal Structure of $Y(NO_3)_3$(12-Crown-4)," *J. Inclusion Phenom.* **1986**, *4*, 351-358.
93. Singh, Y. P.; Rupani, P.; Singh, A.; Rai, A. K.; Mehrotra, R. C.; Rogers, R. D.; Atwood, J. L. "Synthesis and IR, UV, NMR (^1H and ^{11}B), and Mass Spectral Studies of New β-Ketoamine Complexes of Boron: Crystal and Molecular Structure of $OC_6H_4OBOC(R)CHC(R')NR''$ (R = *p*-ClC_6H_4, R' = C_6H_5, R'' = CH_3)," *Inorg. Chem.* **1986**, *25*, 3076-3081.
94. Alt, H. G.; Engelhardt, H. E.; Steinlein, E.; Rogers, R. D. "Acetylenliganden als Bausteine für Carben- und Nitrilliganden. Molekulstrukturen von $C_5H_4Me(CO)_2Mn[C(Me)NH_2]$, $C_5Me_5(CO)_2Mn[C(Me)NH_2]$, $C_5Me_5(CO)_2Mn[C(Me)NMe_2]$ und $C_5Me_5(CO)_2MnNCMe$," *J. Organomet. Chem.* **1987**, *344*, 321-341.
95. Alt, H. G.; Hayen, H. I.; Rogers, R. D. "Preparation and Crystal Structure of the Dinuclear, Asymmetric Dioxo Complex $(\eta^5\text{-}C_5Me_5)(CO)_3W\text{-}W(O)_2(\eta^5\text{-}C_5Me_5)$," *J. Chem. Soc., Chem. Comm.* **1987**, 1795-1796.
96. Alt, H. G.; Herrmann, G. S.; Engelhardt, H. E.; Rogers, R. D. "Die Konkurrenz Elecktronischer und Sterischer Substituenteneinflüsse in Metallacyclishen Pentamethylcyclopentadienyl-Alkenylketon-Komplexen des Chroms, Molydäns und

Wolframs. Molekulstruktur von $C_5Me_5(CO)_2Cr[HC{=}CPhC(O)Me]$," *J. Organomet. Chem.* **1987**, *331*, 329-339.
97. Hayen, H. I.; Alt, H. G.; Rogers, R. D. "Darstellung, Charakterisierung und Molekulstruktur des η^2-Acylkomplexes $C_5Me_5(CO)(CF_3COO)_2W[\eta^2\text{-}C(O)CH_2CH_2COMe]$," *J. Organomet. Chem.* **1987**, *323*, 339-351.
98. Rogers, R. D. "Crystal Structure of Dichlorohexaaquadysprosium(III) Chloride, $[DyCl_2(OH_2)_6]Cl$," *Lanthanide Actinide Res.* **1987**, *2*, 41-48.
99. Rogers, R. D. "f-Element/Crown Ether Complexes. 13. Direct Coordination of 12-Crown-4 to Hydrated Terbium Chloride. Synthesis and Crystal Structure of $[Tb(OH_2)_5(12\text{-crown- }4)]Cl_3\bullet 2H_2O$," *Inorg. Chim. Acta* **1987**, *133*, 175-180.
100. Rogers, R. D. "f-Element/Crown Ether Complexes. 16. Synthesis, Crystallization and Crystal Structure of $[Dy(OH_2)_8]Cl_3\bullet$18-crown-6$\bullet 4H_2O$," *Inorg. Chim. Acta* **1987**, *133*, 347-352.
101. Rogers, R. D.; Kurihara, L. K. "f-Element/Crown Ether Complexes. 6. Interaction of Hydrated Lanthanide Chlorides with 15-Crown-5: Crystallization and Structures of $[M(OH_2)_8]Cl_3\bullet$(15-crown-5) (M = Gd, Lu)," *Inorg. Chim. Acta* **1987**, *130*, 131-137.
102. Rogers, R. D.; Kurihara, L. K. "f-Element/Crown Ether Complexes III: Synthesis and Structural Characterization of $[Y(NO_3)_3(OH_2)_5][NO_3]\bullet 2$(15-*Crown*-5)," *J. Less-Comm. Metals* **1987**, *127*, 199-207.
103. Rogers, R. D.; Kurihara, L. K. "f-Element/Crown Ether Complexes. 7. Low Temperature (-150°C) Structure of $[Y(OH_2)_8]Cl_3\bullet$(15-crown-5)," *Inorg. Chim. Acta* **1987**, *129*, 277-282.
104. Rogers, R. D.; Kurihara, L. K. "f-Element/Crown Ether Complexes. 4. Synthesis and Crystal and Molecular Structures of $[MCl(OH_2)_2$(18-crown-6)$]Cl_2\bullet 2(H_2O)$ (M = Sm, Gd, Tb)," *Inorg. Chem.* **1987**, *26*, 1498-1502.
105. Rogers, R. D.; Kurihara, L. K.; Benning, M. M. "f-Element/Crown Ether Complexes, 11. Preparation and Structural Characterization of $[UO_2(OH_2)_5][ClO_4]_2\bullet 3$(15-crown-5)$\bullet CH_3CN$ and $[UO_2(OH_2)_5][ClO_4]_2\bullet 2$(18-crown-6)$\bullet 2CH_3CN\bullet H_2O$," *J. Inclusion Phenom.* **1987**, *5*, 645-658.
106. Rogers, R. D.; Kurihara, L. K.; Benning, M. M. "Structure of Thorium Nitrate-1,4,7,10,13,16-Hexaoxacyclooctadecane-Water (1/1/3), $[Th(OH_2)_3(NO_3)_4]\bullet$18-Crown-6 at 123 K," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1987**, *C43*, 1056-1058.
107. Rogers, R. D.; Kurihara, L. K.; Benning, M. M. "f-Element/Crown Ether Complexes. 10. Oxidation of UCl_4 to $[UO_2Cl_4]^{2-}$ in the Presence of Crown Ethers: Structural Characterization of Crown Ether Complexed Ammonium Ions $[(NH_4)$(15-crown-5)$_2]_2[UO_2Cl_4]\bullet 2CH_3CN$, $[(NH_4)$(benzo-15-crown-5)$_2]_2[UCl_6]\bullet 4CH_3CN$, and $[(NH_4)$(dibenzo-18-crown-6)$]_2[UO_2Cl_4]\bullet 2CH_3CN$ and Synthesis of $[Na$(12-crown-4)$_2]_2[UO_2Cl_4]\bullet 2OHMe$ and $[UO_2Cl_2(OH_2)_3]\bullet$18-crown-6$\bullet H_2O\bullet OHMe$," *Inorg. Chem.* **1987**, *26*, 4346-4352.
108. Rogers, R. D.; Kurihara, L. K.; Richards, P. D. "Crystallization and Structural Characterization of Dibenzo-18-crown-6$\bullet$2(MeCN) and Dibenzo-18-crown-6$\bullet 2(MeNO_2)$; Assignment of Specific C-H$\bullet\bullet\bullet$O Interactions," *J. Chem. Soc., Chem. Comm.* **1987**, 604-606.
109. Rogers, R. D.; Kurihara, L. K.; Voss, E. J. "f-Element/Crown Ether Complexes. 5. Structural Changes in Complexes of Lanthanide Chloride Hydrates with 18-Crown-6 Accompanying Decreases in Ln^{3+} Ionic Radii: Synthesis and Structures of $[M(OH_2)_7(OHMe)][MCl(OH_2)_2$(18-crown-6)$]_2Cl_7\bullet 2(H_2O)$ (M = Y, Dy)," *Inorg. Chem.* **1987**, *26*, 2360-2365.
110. Rogers, R. D.; Richards, P. D. "Neutral Solvent/Crown Ether Interactions 3. Reorientation of the Hydrogen Bonds in the Low Temperature (-150°C) Structure of 18-Crown-6$\bullet 2(CH_3NO_2)$," *J. Inclusion Phenom.* **1987**, *5*, 631-638.
111. Rogers, R. D.; Voss, E. J. "f-Element/Crown Ether Complexes. 14. Synthesis and Crystal Structure of $[Lu(OH_2)_8][Na$(12-crown-4)$_2]Cl_4\bullet 2H_2O$," *Inorg. Chim. Acta* **1987**, *133*, 181-187.
112. Wayda, A. L.; Mukerji, I.; Dye, J. L.; Rogers, R. D. "Divalent Lanthanoid Synthesis in Liquid Ammonia. 2. The Synthesis and X-ray Crystal Structure of $(C_8H_8)Yb(C_5H_5N)_3\bullet 1/2C_5H_5N$," *Organometallics* **1987**, *6*, 1328-1332.
113. Alt, H. G.; Engelhardt, H. E.; Razavi, A.; Rausch, M. D.; Rogers, R. D. "Pentamethylcyclopentadienyl-, Acetylcyclopentadienyl-, und Indenyl-dicarbonyl-Acetylenkomplexe des Vanadiums. Molekulstruktur von $C_9H_7V(CO)_2PhC_2H$," *Z. Naturforsch., B: Chem. Sci.* **1988**, *43b*, 438-444.
114. Carmona, E.; Muñoz, M. A.; Rogers, R. D. "Synthesis, Characterization, and Properties of the η^2-Acyl Complexes $Mo(\eta^2\text{-}COCH_2CMe_3)X(PMe_3)_4$ (X = Cl, Br)," *Inorg. Chem.* **1988**, *27*, 1598-1601.
115. Macomber, D. W.; Hung, M.-H.; Verma, A. G.; Rogers, R. D. "A New, General Route to (μ-Bis(carbene))ditungsten Complexes: X-ray Crystal Structure of $(CO)_5W\{C(OCH_3)CH_2[CH(CH_2)_3C(CH_2CH{=}CH_2)]C(OCH_3)\}W(CO)_5$," *Organometallics* **1988**, *7*, 2072-2074.
116. Macomber, D. W.; Liang, M.; Rogers, R. D. "Synthesis and Reactivity of Ditungsten μ-Carbene Complexes: X-ray Crystal Structure of $W_2(CO)_9[\mu\text{-}\eta^1,\eta^3\text{-}C(OCH_3)C{=}CH(CH_2)_5CH_2]$," *Organometallics* **1988**, *7*, 416-422.
117. Macomber, D. W.; Verma, A. G.; Rogers, R. D. "Intermolecular [2+2+2] Cycloaddition Reactions of Alkynes and Alkenes Mediated by Cobalt: X-ray Crystal Structures of Two Isomeric (η^5-Cyclopentadienyl)(η^4-1,3-cyclohexadiene)cobalt Complexes," *Organometallics* **1988**, *7*, 1241-1253.
118. Paquette, L. A.; DeRussy, D. T.; Rogers, R. D. "On Possible Redirection of the Course of Anionic Oxy-Cope Rearrangements," *Tetrahedron* **1988**, *44*, 3139-3148.
119. Paquette, L. A.; Lau, C. J.; Rogers, R. D. "Uni- and Biparticulate Electrophilic Additions to Conjugated Bis(bicyclo[1.1.0]butanes)," *J. Am. Chem. Soc.* **1988**, *110*, 2592-2600.
120. Peterson, J. R.; Do, H. D.; Rogers, R. D. "Anticancer-Agent Development: X-ray Structure of Dimethyl 2,3,4,5-Tetrahydro-3-(3,4-methylenedioxybenzoyl)-2-oxo-5β-(3,4,5-trimethoxyphenyl)-3α,4α-furandicarboxylate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 1786-1789.
121. Peterson, J. R.; Rogers, R. D.; Do, H. D. "Structure of Dimethyl 2,3,4,5-Tetrahydro-2-oxo-5α-(3,4,5-trimethoxyphenyl)-3α,4β-furancarboxylate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 1784-1786.

122. Robinson, G. H.; Sangokoya, S. A.; Rogers, R. D. "Synthesis and Molecular Structure of the Optically Active Organoaluminum Dimer (S)-(-)-(S)-(-)-[$(C_6H_5)CH(CH_3)NHAl(CH_3)_2]_2$," *Polyhedron* **1988**, *7*, 2727-2730.
123. Rogers, R. D. "f-Element/Crown Ether Complexes. 26. Crystallization of Two Hydrated Forms of Hydrogen Bonded Complexes of $NdCl_3$•nH_2O and 15-crown-5. Crystal Structures of $[Nd(OH_2)_9]Cl_3$•15-crown-5•H_2O and $[NdCl_2(OH_2)_6]Cl$•15-crown-5," *Inorg. Chim. Acta* **1988**, *149*, 307-314.
124. Rogers, R. D. "f-Element/Crown Ether Complexes 15. Synthesis and Crystal Structure of $[Lu(OH_2)_8]Cl_3$•1.5(12-crown-4)•$2H_2O$," *J. Coord. Chem.* **1988**, *16*, 415-424.
125. Rogers, R. D. "Neutral Molecule/Crown Ether Interactions 5. Comparison of the C-H Acidic Interactions of Nitromethane and Acetonitrile with 18-crown-6 and Dibenzo-18-crown-6. Crystal Structures of Dibenzo-18-crown-6•$2CH_3NO_2$ and Dibenzo-18-crown-6•$2CH_3CN$," *J. Inclusion Phenom.* **1988**, *6*, 629-645.
126. Rogers, R. D. "Structure of Di[bis(1,4,7,10-tetraoxacyclododecane)sodium] Tetrachlorodioxouranate(VI)-Methanol (1/2), $[Na(12\text{-crown-}4)_2]_2[UO_2Cl_4]$•2MeOH," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 638-641.
127. Rogers, R. D.; Benning, M. M. "Synthesis and Structure of Thorium Chloride-1,4,7,10,13-Pentaoxacyclopentadecane-Water-Methanol-Acetonitrile (1/1/2/2/1), $[ThCl_4(OHMe)_2(OH_2)_2]$•15-Crown-5•CH_3CN," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 641-644.
128. Rogers, R. D.; Benning, M. M. "Preparation and Structure of Bis(1,4,7,10,13,16- hexaoxacyclododecaneammonium) Hexachlorouranate(IV)-Acetonitrile (1/2), $[(NH_4)(18\text{-crown-}6)]_2[UCl_6]$•$2CH_3CN$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 1397-1399.
129. Rogers, R. D.; Etzenhouser, R. D. "Structure of $[LuCl_3$(triethylene glycol)]•OHMe," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 1400-1402.
130. Rogers, R. D.; Etzenhouser, R. D. "Structure of $[DyCl_3$(triethylene glycol)]•18-crown-6," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1988**, *C44*, 1533-1535.
131. Rogers, R. D.; Kurihara, L. K.; Benning, M. M. "f-Element/Crown Ether Complexes. Part 9. The Role of Solvent Hydrogen Bonding: Synthesis and Crystal Structure of Aquatetrachlorotris(ethanol)thorium(IV)-1,4,7,10,13,16-hexaoxacyclo-octadecane-Water (1/1/1)," *J. Chem. Soc., Dalton Trans.* **1988**, 13-16.
132. Rogers, R. D.; Richards, P. D.; Voss, E. J. "Neutral Solvent/Crown Ether Interactions, 4. Crystallization and Low Temperature (-150 °C) Structural Characterization of 18-crown-6•$2(CH_3CN)$," *J. Inclusion Phenom.* **1988**, *6*, 65-71.
133. Rogers, R. D.; Rollins, A. N.; Benning, M. M. "f-Element/Crown Ether Complexes. 22. Preparation and Structural Characterization of Lanthanide Chloride Complexes of 12-crown-4," *Inorg. Chem.* **1988**, *27*, 3826-3835.
134. Rogers, R. D.; Shakir, R.; Atwood, J. L.; Macomber, D. W.; Wang, Y.-P.; Rausch, M. D. "The Crystal and Molecular Structures of Formyl-, Cyano-, and Aminocyclopentadienyldicarbonylnitrosylchromium," *J. Crystallogr. Spectrosc. Res.* **1988**, *18*, 767-778.
135. Rogers, R. D.; Teuben, J. H. "The Crystal and Molecular Structures of (η^5- Pentamethylcyclopentadienyl)(η^7-Cyclohepatatrienyl)zirconium and -hafnium," *J. Organomet. Chem.* **1988**, *354*, 169-176.
136. Rogers, R. D.; Voss, E. J. "f-Element/Crown Ether Complexes 12. Synthesis and Crystal Structure of $[Y(NO_3)_3(OH_2)_2(NCMe)][Y(NO_3)_3(OH_2)_2(OHMe)]$•2(benzo-15-crown-5)•OHMe," *J. Coord. Chem.* **1988**, *16*, 405-414.
137. Rogers, R. D.; Voss, E. J.; Etzenhouser, R. D. "f-Element/Crown Ether Complexes. 17. Synthetic and Structural Survey of Lanthanide Chloride Triethylene Glycol Complexes," *Inorg. Chem.* **1988**, *27*, 533-542.
138. Alt, H. G.; Engelhardt, H. E.; Frister, T.; Rogers, R. D. "Darstellung und Charakterisierung der Isonitril-Hydridkomplexe $Cp'(CO)_2(CNR)MH$ (Cp' = η^5-C_5H_5, η^5-C_5Me_5; R = Me, ^{t}Bu; M = Mo, W). Molekülstruktur von $C_5Me_5(CO)_2(CN^tBu)MoH$," *J. Organomet. Chem.* **1989**, *366*, 297-304.
139. Alt, H. G.; Engelhardt, H. E.; Hayen, H. I.; Rogers, R. D. "Umsetzungen des Asymmetrischen, Zweikernigen Dioxokomplexes $C_5Me_5(CO)_3W$-$W(O)_2C_5Me_5$ mit Cl_2, Br_2, I_2, HCl, CF_3COOH, NOCl, NO und Luft. Molekülstruktur von $C_5Me_5W(CO)_2Br_3$," *J. Organomet. Chem.* **1989**, *366*, 287-295.
140. Alt, H. G.; Engelhardt, H. E.; Rogers, R. D. "Die Protonierung von Ylidkomplexen des Mangans mit HBF_4. Die Molekülstruktur von $[C_5H_5(CO)_2MnCH_2CH(PEt_3)]BF_4$," *J. Organomet. Chem.* **1989**, *362*, 117-124.
141. Alt, H. G.; Engelhardt, H. E.; Rogers, R. D.; Abu-Orabi, S. T. "Photoinduzierte Umsetzungen der Komplexe (η^6-$C_6H_3R_3)(CO)_3Cr$ (R = Me, Et) mit den Acetylenen $C_2R'_2$ (R' = H, C_3H_7, $C(OEt)_2H$). Die Molekülstruktur von $(C_6H_3Me_3)(CO)Cr(\mu\text{-}CO)\{\mu\text{-}C_2[C(OEt)_2H]_2\}Cr(CO)_4$," *J. Organomet. Chem.* **1989**, *378*, 33-43.
142. Alt, H. G.; Engelhardt, H. E.; Wrackmeyer, B.; Rogers, R. D. "Die Photoinduzierte Umsetzung der Tricarbonyl-Hydridkomplexe $Cp'W(CO)_3H$ (Cp' = η^5-C_5H_5, η^5-C_5Me_5) mit Methylacetylen und Dimethylacetylen zu η^3-Allyl- und Metallacyclischen Alkenylketon-Komplexen. Molekülstruktur von $C_5Me_5W(CO)_2(\eta^3\text{-}C_3H_5)$," *J. Organomet. Chem.* **1989**, *379*, 289-301.
143. Beachley, O. T., Jr.; Spiegel, E. F.; Kopasz, J. P.; Rogers, R. D. "Indium(III) Compounds Containing the Neopentyl Substituent, $In(CH_2CMe_3)_3$, $In(CH_2CMe_3)_2Cl$, $In(CH_2CMe_3)Cl_2$, and $In(CH_2CMe_3)_2CH_3$. Crystal and Molecular Structure of Dichloroneopentylindium(III), an Inorganic Polymer," *Organometallics* **1989**, *8*, 1915-1921.
144. Burford, N.; Spence, R. E. v. H.; Rogers, R. D. "Preparation, Crystal Structures, and Spectroscopic Characterization of Diaminochalcogenophosphonium Cations," *J. Am. Chem. Soc.* **1989**, *111*, 5006-5008.
145. Hall, T. J.; Bachrach, S. M.; Spangler, C. W.; Sapochak, L. S.; Lin, C. T.; Guan, H. W.; Rogers, R. D. "Structure of All-*trans*-1,6-diphenyl- (*A*) and All-*trans*-1,6-bis(*o*-methoxyphenyl)-1,3,5-hexatriene (*B*)," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1989**, *C45*, 1541-1543.
146. Hall, T. J.; Mertz, C. J.; Bachrach, S. M.; Hipple, W. G.; Rogers, R. D. "The Crystal Structure of $UO_2Cl_2(OH_2)(MeCN)_2$•2MeCN," *J. Crystallogr. Spectrosc. Res.* **1989**, *19*, 499-505.

147. Heeres, H. J.; Meetsma, A.; Teuben, J. H.; Rogers, R. D. "Mono(pentamethylcyclopentadienyl) Complexes of Cerium(III). Synthesis, Molecular Structure, Thermal Stability, and Reactivity of $(C_5Me_5)CeX_2$ (X = 2,6-Di-*tert*-butylphenoxo, $CH(SiMe_3)_2$, and $N(SiMe_3)_2$) Complexes," *Organometallics* **1989**, *8*, 2637-2646.
148. Heeres, H. J.; Teuben, J. H.; Rogers, R. D. "Novel Monopentamethylcyclopentadienyl Alkoxides of La and Ce; X-ray Crystal Structure of $(C_5Me_5Ce(OCMe_3)_2)_2$," *J. Organomet. Chem.* **1989**, *364*, 87-96.
149. Jaw, H.-R. C.; Savas, M. M.; Rogers, R. D.; Mason, W. R. "Crystal Structures and Solution Electronic Absorption and MCD Spectra for Perchlorate and Halide Salts of Binuclear Gold(I) Complexes Containing Bridging $Me_2PCH_2PMe_2$ (dmpm) or $Me_2PCH_2CH_2PMe_2$ (dmpe) Ligands," *Inorg. Chem.* **1989**, *28*, 1028-1037.
150. Kool, L. B.; Ogasa, M.; Rausch, M. D.; Rogers, R. D. "Synthesis of [η^5-(Diphenylphosphino)cyclopentadienyl][η^7-(diphenylphosphino)cycloheptatrienyl]titanium and Its Utility in the Formation of Heterobimetallic Complexes: The Molecular Structure of Tetracarbonyl{[η^5-(diphenylphosphino)cyclopentadienyl][η^7- (diphenylphosphino)cycloheptatrienyl]titanium-*P*,*P*'}chromium Hemitoluene Solvate," *Organometallics* **1989**, *8*, 1785-1790.
151. Lin, W. O.; da Costa, J. B. N.; Alt, H. G.; Rogers, R. D. "A New System of Ionophores Derived from *o*,*o*'-Biphenyldiol. X-ray Structure of *o*-Hydroxy-biphenyl-*o*'-oxyacetamide," *Z. Naturforsch., B: Chem. Sci.* **1989**, *44b*, 1331-1332.
152. Macomber, D. W.; Madhukar, P.; Rogers, R. D. "Synthesis of [Alkenyl(dimethylamino)carbene]tungsten Complexes using the Peterson Reaction: X-ray Crystal Structure of (*E*)-$(CO)_5W[C(NMe_2)CH{=}CH(\eta\text{-}C_5H_4)Fe(\eta\text{-}C_5H_5)]$," *Organometallics* **1989**, *8*, 1275-1282.
153. Moriarty, K. J.; Rogers, R. D.; Paquette, L. A. "Stereoselective Formation from a (1*S*,5*S*)-(-)-Verbenone-Derived Cyclopentadiene of Dimeric and Mixed Titanium and Zirconium Dichloride Complexes," *Organometallics* **1989**, *8*, 1512-1517.
154. Paquette, L. A.; He, W.; Rogers, R. D. "Comparative Analysis of Molecular-Recognition Levels Attained during Capture of Chiral Cyclopentenyl Organometallics by Conformationally Immobilized Ketonic Systems," *J. Org. Chem.* **1989**, *54*, 2291-2300.
155. Paquette, L. A.; Moriarty, K. J.; McKinney, J. A.; Rogers, R. D. "Analysis of the π-Facial Preference for Complexation of a Camphor-Derived, Enantiomerically Pure Cyclopentadienyl Ligand to $CpMCl_2$ Fragments (M = Ti and Zr)," *Organometallics* **1989**, *8*, 1707-1713.
156. Paquette, L. A.; Moriarty, K. J.; Meunier, P.; Gautheron, B.; Sornay, C.; Rogers, R. D.; Rheingold, A. L. "Stereochemical Course of π-Face Coordination to Isodicyclopentadiene during Formation of Mixed Titanocene and Zirconocene Dichloride Complexes," *Organometallics* **1989**, *8*, 2159-2167.
157. Paquette, L. A.; Moriarty, K. J.; Rogers, R. D. "(1*R*)-(-)-Nopol as the Source of an Optically Pure Fused Cyclopentadienyl Ligand. Stereochemical Course of Complexation to Cyclopentadienyltitanium and -zirconium Dichloride Fragments," *Organometallics* **1989**, *8*, 1506-1511.
158. Paquette, L. A.; O'Doherty, G. A.; Miller, B. L.; Rogers, R. D.; Rheingold, A. L.; Geib, S. L. "Stereochemically Uniform Mode of Iron Carbonyl Complexation to Spirocyclic Isodicyclopentadienes," *Organometallics* **1989**, *8*, 2167-2172.
159. Paquette, L. A.; Vanucci, C.; Rogers, R. D. "Stereochemical Course of Diels-Alder Cycloadditions to Hydroxymethyl-Substituted Plane-Nonsymmetric Cyclopentadienes," *J. Am. Chem. Soc.* **1989**, *111*, 5792-5800.
160. Peterson, J. R.; Do, H. D.; Rogers, R. D. "Platelet Activating Factor Antagonist Design. 2. X-ray Structure of Dimethyl 2,3,4,5-Tetrahydro-5β-(3,4-methylenedioxyphenyl)-2-oxo-3β-(3,4,5-trimethoxybenzoyl)-3α,4α- furandicarboxylate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1989**, *C45*, 1059-1063.
161. Peterson, J. R.; Do, H. D.; Rogers, R. D. "Anticancer Agent Development. 3. X-ray Structure of Dimethyl 1-Methoxy-6,7-methylenedioxy-4-(3,4,5-trimethoxyphenyl)-*trans*-3,4- dihydronaphthalene-2,3-dicarboxylate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1989**, *C45*, 1568-1571.
162. Peterson, J. R.; Horsley, D. B.; Brozik, J. A.; Rogers, R. D. "Platelet Activating Factor Antagonist Design. 3. X-ray Crystal Structure and Intermolecular Crystal Lattice Interactions of Methyl *trans*-4-Acetoxymethyl-4,5-dihydro-2,5-bis(3,4-methylenedioxyphenyl)-3- furancarboxylate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1989**, *C45*, 1164-1167.
163. Peterson, J. R.; Smillie, T. J.; Rogers, R. D. "Platelet Activating Factor Antagonist Design: Structure of Methyl *trans*-5-(3,4-Dimethoxyphenyl)-2,3,4,5-tetrahydro-2-oxo-4-furancarboxylate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1989**, *C45*, 297-300.
164. Peterson, J. R.; Winter, T. J.; Do, H. D.; Rogers, R. D. "Anticancer Agent Development: X-ray Crystal Structure and Keto-Enol Tautomerism of Dimethyl 1-hydroxy-6,7-methylenedioxy-4- (3',4',5'-trimethoxyphenyl)-*trans*-3,4-dihydronaphthalene-2,3-dicarboxylate," *J. Crystallogr. Spectrosc. Res.* **1989**, *19*, 135-145.
165. Peterson, J. R.; Winter, T. J.; Everson, T. P.; Rogers, R. D. "Novel Manganese(III) Oxidation Chemistry: X-ray Crystal Structure of 5,7,8-Trimethoxy-1-(2,4,5-trimethoxyphenyl)-1,2-dihydronapthalene," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1989**, *C45*, 132-134.
166. Rausch, M. D.; Tsai, W.-M.; Chambers, J. W.; Rogers, R. D.; Alt, H. G. "Synthetic and X-ray Structural Studies on Pentabenzylcyclopentadienyl Derivatives of Manganese, Rhenium, and Iron," *Organometallics* **1989**, *8*, 816-821.
167. Robinson, G. H.; Sangokoya, S. A.; Pennington, W. T.; Self, M. F.; Rogers, R. D. "Unexpected Conformation of the Hydrogen Chloride Salt of $[14]aneN_4$: An X-ray Structural Examination of $[H_2[14]aneN_4H_2]Cl_4$ and Its Role in Organaluminum Host-Guest Chemistry," *J. Coord. Chem.* **1989**, *19*, 287-294.
168. Rogers, R. D. "Macrocycle Complexation Chemistry. 31. The Crystal Structure of $[ThCl_2(OH_2)_7]Cl_2$•18-crown-6•$2H_2O$," *Lanthanide Actinide Res.* **1989**, *3*, 71-81.
169. Rogers, R. D. "f-Element/Crown Ether Complexes: 21. Conformational Changes in Metal Complexed versus Hydrogen Bonded Benzo-15-crown-5 in the Structure of $[Y(OH_2)_3(NCMe)$(benzo-15-crown-5)$][ClO_4]_3$•benzo-15-crown-5•CH_3CN," *J. Inclusion Phenom. Mol. Recognit. Chem.* **1989**, *7*, 277-287.

170. Rogers, R. D.; Alt, H. G.; Engelhardt, H. E. "Umsetzungen des Acetylenkomplexes $(C_6H_3Me_3)(CO)_2Cr(C_2H_2)$ mit PMe_3 und $HNMe_2$. Festkörperstrukturen von $(C_6H_3Me_3)(CO)_2Cr(PMe_3)$ und $(C_6H_3Me_3)(CO)_2Cr[C(Me)NMe_2]$," *J. Organomet. Chem.* **1989**, *366*, 305-312.
171. Rogers, R. D.; Benning, M. M.; Etzenhouser, R. D.; Rollins, A. N. "Novel Unidentate Co-ordination of a Crown Ether and of a Polyethylene Glycol to Uranium(VI)," *J. Chem. Soc., Chem. Comm.* **1989**, 1586-1588.
172. Rogers, R. D.; Teuben, J. H. "Structure of $(\eta^5\text{-}C_5Me_5)(\eta^8\text{-}C_8H_8)Zr$, an Aromatic Mixed Sandwich Complex of Zirconium(III)," *J. Organomet. Chem.* **1989**, *359*, 41-47.
173. Spangler, B. D.; Vanýsek, P.; Hernandez, I. C.; Rogers, R. D. "Structure of Crystal Violet Tetraphenylborate," *J. Crystallogr. Spectrosc. Res.* **1989**, *19*, 589-596.
174. Spangler, C. W.; Hall, T. J.; Saindon, M. L.; Rogers, R. D.; McCoy, R. K.; Birge, R. R.; Fleitz, P. A.; Zhang, C.-F. "The Relationship between Structure and Nonlinear Optical Properties in Donor-Acceptor Polyenes," *Inst. Phys. Conf. Ser.* **1989**, *103*, 233-238.
175. Alt, H. G.; Palackal, S. J.; Rogers, R. D. "Umsetzungen des 1,2-Bis(3-indenyl)ethan-Dianions mit Photochemisch Aktivierten Carbonylkomplexen des Chroms, Molybdäns und Wolframs. Molekülstruktur von $C_9H_7CH_2CH_2C_9H_7$ und $(\eta^5{:}\eta^5\text{-}C_9H_6CH_2CH_2C_9H_6)[W(CO)_3Me]_2$," *J. Organomet. Chem.* **1990**, *388*, 105-116.
176. Banks, M. A.; Beachley, O. T., Jr.; Maloney, J. D.; Rogers, R. D. "The Chemistry of Diphenylphosphine Adducts of Tris(neopentyl) and Tris(trimethylsilylmethyl)gallium and -indium Including the Crystal and Molecular Structure of $(Me_3CCH_2)_3Ga{\bullet}P(H)Ph_2$," *Polyhedron* **1990**, *9*, 335-342.
177. Burford, N.; Royan, B. W.; Spence, R. E. v. H.; Cameron, T. S.; Linden, A.; Rogers, R. D. "Linear Co-ordinative Bonding at Oxygen: A Spectroscopic and Structural Study of Phosphine Oxide-Group 13 Lewis Acid Adducts," *J. Chem. Soc., Dalton Trans.* **1990**, 1521-1528.
178. Burford, N.; Royan, B. W.; Spence, R. E. v. H.; Rogers, R. D. "Nuclear Magnetic Resonance Spectroscopic Characterization and the Crystal and Molecular Structures of $Ph_3PS{\bullet}AlCl_3$ and $Ph_3PSe{\bullet}AlCl_3$: A Classification of the Co-ordinative Bonding Modes of the Phosphine Chalcogenides," *J. Chem. Soc., Dalton Trans.* **1990**, 2111-2117.
179. Burford, N.; Royan, B. W.; Whalen, J. M.; Richardson, J. F.; Rogers, R. D. "Co-ordinatively Unsaturated Group 15 Elements: The Isolation and Crystal Structure of a Novel Dimeric Dithiarsolidinium Cation," *J. Chem. Soc., Chem. Comm.* **1990**, 1273-1275.
180. Burford, N.; Spence, R. E. v. H.; Rogers, R. D. "Chemistry of the Diaminochalcogenophosphinic Chloride-Aluminum Trichloride System: Preparation and Crystal Structures of New Chalcogenophosphonium Cations," *J. Chem. Soc., Dalton Trans.* **1990**, 3611-3619.
181. Burford, N.; Spence, R. E. v. H.; Whalan, J. M.; Rogers, R. D.; Richardson, J. F. "Syntheses and Crystal Structures for the First Two Examples of the Four-Membered PNSiS Heterocycle," *Organometallics* **1990**, *9*, 2854-2856.
182. Lee, B.; Pennington, W. T.; Robinson, G. H.; Rogers, R. D. "Organogallium Chemistry of Macrocyclic Amines. Synthesis and Molecular Structure of $[Ga(CH_3)_3]_4[(CH_3)_4[14]aneN_4]$ and $[Ga(CH_3)_2][14]aneN_4[Ga(CH_3)_3]_2$," *J. Organomet. Chem.* **1990**, *396*, 269-278.
183. Murray, C. K.; Warner, B. P.; Dragisich, V.; Wulff, W. D.; Rogers, R. D. "Thermal Reactions of Acyloxy and Alkoxy Carbene Complexes with Imines: Metathesis, Acetate Rearrangements, and a New Route to Imino Carbene Complexes via Peterson Type Eliminations," *Organometallics* **1990**, *9*, 3142-3151.
184. Paquette, L. A.; DeRussy, D. T.; Vandenheste, T.; Rogers, R. D. "Comparative Analysis of Diastereoselection Levels Attainable during Controlled Exo and Endo Addition of Chiral Cyclopentenyl Organometallics to Optically Pure and Racemic 1-Vinylnorbornan-2-ones," *J. Am. Chem. Soc.* **1990**, *112*, 5562-5573.
185. Paquette, L. A.; Kesselmayer, M. A.; Rogers, R. D. "Quantitation of Proximity Effects on Rate. A Case Study Involving Dyotropic Hydrogen Migration within *syn*-Sesquinorbornene Disulfones Carrying Central Substituents Having Different Spatial Demands," *J. Am. Chem. Soc.* **1990**, *112*, 284-291.
186. Paquette, L. A.; Liang, S.; Waykole, L.; DeLucca, G.; Jendralla, H.; Rogers, R. D.; Kratz, D.; Gleiter, R. "[4.4.4]Propellahexaene by Triple Shapiro Degradation. Structural and Electronic Properties of This Maximally Unsaturated Hydrocarbon and Consequences of O-Methylation of Its [4.4.4]Propellatrienetrione Precursors," *J. Org. Chem.* **1990**, *55*, 1598-1611.
187. Paquette, L. A.; Pegg, N. A.; Toops, D.; Maynard, G. D.; Rogers, R. D. "[3.3] Sigmatropy within 1-Vinyl-2-alkenyl-7,7-dimethyl-*exo*-norbornan-2-ols. The First Atropselective Oxyanionic Cope Rearrangement," *J. Am. Chem. Soc.* **1990**, *112*, 277-283.
188. Paquette, L. A.; Teleha, C. A.; Taylor, R. T.; Maynard, G. D.; Rogers, R. D.; Gallucci, J. C.; Springer, J. P. "Boat/Chair Topographic Stereoselection during Anionic Oxy-Cope Rearrangement of 1-Alkenyl-2-cyclopentenyl-*endo*-norbornan-2-ols," *J. Am. Chem. Soc.* **1990**, *112*, 265-277.
189. Peterson, J. R.; Everson, T. P.; Rogers, R. D. "Novel Manganese(III) Oxidation Chemistry: X-ray Crystal Structures of (1α,2α,4β)-1,2-diacetoxy-4-(4-methoxyphenyl)-6-methoxy-1,2,3,4- tetrahydronaphthalene (Compound A) and (1α,2α,4β)-1,2-diacetoxy-4-(2-methoxyphenyl)-8-methoxy-1,2,3,4-tetrahydronaphthalene (Compound B)," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 37-45.
190. Peterson, J. R.; Horsley, D. B.; Brozik, J. A.; Rogers, R. D. "Anticancer Agent Development. 4. X-ray Crystal Structure and Intermolecular Crystal Lattice Interactions of Methyl *Trans*-4,5-dihydro-4-acetoxymethyl-5-(3,4,5-trimethoxyphenyl)-2-(3,4-methylenedioxyphenyl)-3- furancarboxylate," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 47-52.
191. Peterson, J. R.; Horsley, D. B.; Rogers, R. D. "Platelet-Activating-Factor Antagonist Design. 4. Structure and Intermolecular Crystal Lattice Interactions of *cis*-3,4-Dibenzyl-2-oxo-2,3,4,5-tetrahydrofuran," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1990**, *C46*, 872-875.

192. Peterson, J. R.; Peterson, S.; Baker, J. K.; Rogers, R. D. "Anticancer Agent Development. 5. X-ray Structure and ^{1}H NMR Spectral Analysis of (1α,2α,5α,6α)-2,6-bis(3,4-methylenedioxyphenyl)-3,7-dioxabicyclo[3.3.0]octane-4,8-dione," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 327-333.
193. Rausch, M. D.; Spink, W. C.; Conway, B. G.; Rogers, R. D.; Atwood, J. L. "Synthetic and Structural Studies on (η^5:η^5-Fulvalene)bimetallic Compounds Derived from (η^5:η^5-Fulvalene)dithallium," *J. Organomet. Chem.* **1990**, *383*, 227-252.
194. Rogers, R. D.; Alt, H. G.; Maisel, H. E. "Die Molekülstruktur des Carbenartigen Ylidkomplexes $(C_5H_4Me)(CO)_2Mn[CHCH(PEt_3)]$," *J. Organomet. Chem.* **1990**, *381*, 233-238.
195. Rogers, R. D.; Atwood, J. L.; Rausch, M. D.; Macomber, D. W. "Crystal Structures of (η^5-$C_5H_4COMe)M(CO)_3Me$ (M = Mo,W)," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 555-560.
196. Rogers, R. D.; Bond, A. H.; Hipple, W. G. "Macrocycle Complexation Chemistry. 33. Preparation of $[Ca(12\text{-crown-}4)_2][UO_2Cl_4]$ and $[Ca(OH_2)_3(15\text{-crown-}5)][UO_2Cl_4]$. Structure of $[Ca(OH_2)_3(15\text{-crown-}5)][UO_2Cl_4]$," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 611-616.
197. Rogers, R. D.; Nunez, L. "Macrocycle Complexation Chemistry. 29. Synthesis and Crystal Structure of $[CuCl(18\text{-thiacrown-}6)]_n$," *J. Coord. Chem.* **1990**, *21*, 111-118.
198. Rogers, R. D.; Nuñez, L. "Macrocycle Complexation Chemistry. 32. Modification of the Lanthanide Ion Coordination Sphere via Electrocrystallization of Hydrated Lanthanide Chloride Complexes of 12-crown-4," *Inorg. Chim. Acta* **1990**, *172*, 173-180.
199. Rogers, R. D.; Park, M.-G.; Kevill, D. N. "Structure of 3-(4-Methoxyphenyl)-4-phenyl-4*H*-1,2,4-triazole," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1990**, *C46*, 2218-2221.
200. Rogers, R. D.; Rollins, A. N. "Macrocycle Complexation Chemistry 30: Comparison of the Crystal Structures of $[La(NO_3)_3(15\text{-crown-}5)]$ and $[La(NO_3)_3(\text{monoaza-}15\text{-crown-}5)]$," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 389-393.
201. Rogers, R. D.; Rollins, A. N.; Etzenhouser, R. D.; Henry, R. F. "f-Element/Crown Ether Complexes. 27. The Synthesis and Crystal Structure of $[Ce(NO_3)_3(OH_2)(12\text{-crown-}4)]\bullet 12\text{-crown-}4$," *J. Inclusion Phenom. Mol. Recognit. Chem.* **1990**, *8*, 375-382.
202. Rogers, R. D.; Royal, J. D.; Bolton, D. M.; Boeyens, J. C. A.; Allen, C. C. "f-Element/Crown Ether Complexes. 20. Synthesis and Structure of $[Y(NO_3)_3(OH_2)_3]\bullet 1.5(15\text{-crown-}5)\bullet Me_2CO$," *J. Crystallogr. Spectrosc. Res.* **1990**, *20*, 525-533.
203. Sivik, M. R.; Rogers, R. D.; Paquette, L. A. "Isodicyclopentadienes and Related Molecules LII. Comparative Analysis of the Solid State Structural Features of Bis(η^5-(1*R*,8*R*)- and (η^5-1*R*,8*R*),η^5-(1*S*,8*S*)-7,7,9,9-tetramethyltricyclo[6.1.1.0^{2,6}]deca-3,5-dien-2-yl)dichlorotitanium," *J. Organomet. Chem.* **1990**, *397*, 177-185.
204. Wayda, A. L.; Kaplan, M. L.; Lyons, A. M.; Rogers, R. D. "Mixed-Ligand Imidazole Complexes of Organolanthanides," *Polyhedron* **1990**, *9*, 751-756.
205. Alvarez, R.; Atwood, J. L.; Carmona, E.; Pérez, P. J.; Poveda, M. L.; Rogers, R. D. "Formation of Carbonyl-Carbonate Complexes of Molybdenum by Reductive Disproportionation of Carbon Dioxide. X-ray Structure of $Mo_4(\mu_4\text{-}CO_3)(CO)_2(O)_2(\mu_2\text{-}O)_2(\mu_2\text{-}OH)_4(PMe_3)_6$," *Inorg. Chem.* **1991**, *30*, 1493-1499.
206. Beachley, O. T., Jr.; Lees, J. F.; Rogers, R. D. "(Tert-butyl)cyclopentadienylindium(I), $In(C_5H_4CMe_3)$: Synthesis, Characterization and X-ray Structural Study," *J. Organomet. Chem.* **1991**, *418*, 165-171.
207. Burford, N.; McInnis, J. D.; Schriver, M. J.; Rogers, R. D. "Structure of Bis[bis(trimethylsilyl)methylene]methoxyphosphorane," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1991**, *C47*, 884-885.
208. Carmona, E.; Contreras, L.; Poveda, M. L.; Sánchez, L. J.; Atwood, J. L.; Rogers, R. D. "η^2-Acyl and Methyl Complexes of Tungsten. Crystal and Molecular Structures of $W(\eta^2\text{-}C(O)CH_2SiMe_3)Cl(CO)(PMe_3)_3$ and $W(CH_3)(S_2CNMe_2)(CO)_2(PMe_3)_2$," *Organometallics* **1991**, *10*, 61-71.
209. Christie, S.; Dubois, R. H.; Rogers, R. D.; White, P. S.; Zaworotko, M. J. "Air Stable Liquid Clathrates: Solid State Structure and Hydrocarbon Solubility of Organic Cation Triodide Salts," *J. Inclusion Phenom. Mol. Recognit. Chem.* **1991**, *11*, 103-114.
210. Gilbert, T. M.; Rogers, R. D. "Spectroscopic Properties of Conjugated Metal-Carbon Multiple Bonds: Synthesis and Absorption Spectra of the "Dialkylidynes" $(RO)_3W/C\text{-}C/W(OR)_3$ (OR = $OCMe_3$, $OCMe_2CF_3$, $OCMe_2Et$)," *J. Organomet. Chem.* **1991**, *421*, C1-C5.
211. Hufford, C. D.; Badria, F. A.; Abou-Karam, M.; Shier, W. T.; Rogers, R. D. "Preparation, Characterization, and Antiviral Activity of Microbial Metabolites of Stemodin," *J. Nat. Prod.* **1991**, *54*, 1543-1552.
212. Jürgens, A. R.; McChesney, J. D.; Rogers, R. D. "Synthesis of Hydrophenanthrene Natural Products. Structure of a 17-Nordehydropimarane Derived from Dehydroabietic Acid," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1991**, *C47*, 1675-1678.
213. Macomber, D. W.; Hung, M.-H.; Madhukar, P.; Liang, M.; Rogers, R. D. "Synthesis and Structures of (μ-Bis(carbene))dimetal Complexes of Chromium and Tungsten," *Organometallics* **1991**, *10*, 737-746.
214. Macomber, D. W.; Madhukar, P.; Rogers, R. D. "Unusual Rearrangement of [(α-(Silyl)alkyl)alkoxycarbene]tungsten Complexes: X-ray Crystal Structure of (*E*)-$(CO)_5W[C(N(CH_3)_2)CH_2CH_2CH{=}C(OCH_3)Si(CH_3)_3]$," *Organometallics* **1991**, *10*, 2121-2126.
215. Negri, J. T.; Rogers, R. D.; Paquette, L. A. "Belted Spirocyclic Tetrahydrofurans: A New Class of Preorganized Ionophoric Polyethers. Molecular Structure, Conformation, and Binding to Alkali-Metal Atoms," *J. Am. Chem. Soc.* **1991**, *113*, 5073-5075.
216. Nuñez, L.; Rogers, R. D.; Crabtree, G. W.; Welp, U.; Vandervoort, K.; Umezawa, A.; Fang, Y. "Magnetic and Structural Properties of Fe in Single Crystals of $YBa_2Cu_{3-x}Fe_xO_{7-\delta}$," *Phys. Rev. B: Condensed Matter* **1991**, *44*, 4526-4531.
217. Ogasa, M.; Mallin, D. T.; Macomber, D. W.; Rausch, M. D.; Rogers, R. D.; Rollins, A. N. "Synthetic and Structural Studies on New Vinylcyclopentadienyl Derivatives of Titanium, Iron and Thallium," *J. Organomet. Chem.* **1991**, *405*, 41-52.
218. Ogasa, M.; Rausch, M. D.; Rogers, R. D. "New Heterobimetallic Compounds Derived from [η^5-(Dimethylphosphino)cyclopentadienyl][η^7-(dimethylphosphino)cycloheptatrienyl]titanium," *J. Organomet. Chem.* **1991**, *403*,

279-291.
219. Paquette, L. A.; Combrink, K. D.; Elmore, S. W.; Rogers, R. D. "Impact of Substituent Modifications on the Atropselectivity Characteristics of an Anionic Oxy-Cope Ring Expansion," *J. Am. Chem. Soc.* **1991**, *113*, 1335-1344.
220. Paquette, L. A.; Friedrich, D.; Rogers, R. D. "Alkylaluminum-Catalyzed Claisen Expansion Reactions. Scope and Stereochemistry," *J. Org. Chem.* **1991**, *56*, 3841-3849.
221. Paquette, L. A.; Moorhoff, C. M.; Maynard, G. D.; Hickey, E. R.; Rogers, R. D. "Stereochemical Course of the Base-Promoted Aldol Self-Coupling of Racemic 5-Norbornen-2-one and 2-Norbornanone," *J. Org. Chem.* **1991**, *56*, 2449-2455.
222. Paquette, L. A.; O'Doherty, G. A.; Rogers, R. D. "Intramolecular Reaction Rate Is Not Determined Exclusively by the Distance Separating Reaction Centers. The Kinetic Consequences of Modulated Ground State Strain on Dyotropic Hydrogen Migration in Systems of Very Similar Geometric Disposition," *J. Am. Chem. Soc.* **1991**, *113*, 7761-7762.
223. Peterson, J. R.; Do, H. D.; Rogers, R. D. "Anticancer Agent Development; 6. Application of the Heterocycle Annulation-Rearrangement Strategy in the Synthesis of a Podophyllotoxin Precursor," *Synthesis* **1991**, 275-277.
224. Peterson, J. R.; Do, H. D.; Rogers, R. D. "X-ray Structure and Crystal Lattice Interactions of the Taxol Side-Chain Methyl Ester," *Pharm. Res.* **1991**, *8*, 908-912.
225. Piatak, D. M.; Tang, P.-F. L.; Franciskovich, J.; Rogers, R. D. "Stereochemistry of Erysulfone," *J. Nat. Prod.* **1991**, *54*, 902-904.
226. Rausch, M. D.; Ogasa, M.; Ayers, M. A.; Rogers, R. D.; Rollins, A. N. "Formation and Molecular Structure of Hydridotricarbonyl{[η^5-(diphenylphosphino)cyclopentadienyl][η^7- (diphenylphosphino)cycloheptatrienyl]titanium-*P*,*P*'}manganese: A New Chelated Titanium-Manganese Heterobimetallic Compound," *Organometallics* **1991**, *10*, 2481-2484.
227. Rausch, M. D.; Ogasa, M.; Rogers, R. D.; Rollins, A. N. "Synthetic and Structural Studies on Carboxy, Carbomethoxy, and Trimethylsilyl Derivatives of (η^5-Cyclopentadienyl)(η^7- cycloheptatrienyl)titanium," *Organometallics* **1991**, *10*, 2084-2086.
228. Rogers, R. D.; Benning, M. M. "Macrocycle Complexation Chemistry. 37. The Isolation and Crystallographic Characterization of the U^{4+} and UO_2^{2+} Extraction Complexes $[(H_5O_2)$(dicyclohexano-24-crown-8)$]_2[UO_2Cl_4]\bullet$MeOH and $[(H_5O_2)$(dicyclohexano-24-crown- 8)$]_2[UCl_6]\bullet$MeOH," *J. Inclusion Phenom. Mol. Recognit. Chem.* **1991**, *11*, 121-135.
229. Rogers, R. D.; Bond, A. H.; Henry, R. F. "Structure of Ammonium *p*-Toluenesulfonate," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1991**, *C47*, 168-170.
230. Rogers, R. D.; Bond, A. H.; Hipple, W. G.; Rollins, A. N.; Henry, R. F. "Synthesis and Structural Elucidation of Novel Uranyl-Crown Ether Compounds Isolated from Nitric, Hydrochloric, Sulfuric, and Acetic Acids," *Inorg. Chem.* **1991**, *30*, 2671-2679.
231. Rogers, R. D.; Bond, A. H.; Witt, M. M. "Macrocycle Complexation Chemistry 34. Polyethylene Glycol and Glycolate Complexes of Th^{4+}. Preparation and Structural Characterization of $[ThCl_3$(pentaethylene glycol)$]Cl\bullet CH_3CN$ and the $(Th^{4+})_4$ Cluster, $[Th_4Cl_8(O)$(tetraethylene glycolate)$_3]\bullet 3CH_3CN$," *Inorg. Chim. Acta* **1991**, *182*, 9-17.
232. Rogers, R. D.; Etzenhouser, R. D.; Murdoch, J. S.; Reyes, E. "Macrocycle Complexation Chemistry. 35. Survey of the Complexation of the Open Chain 15-Crown-5 Analogue Tetraethylene Glycol with the Lanthanide Chlorides," *Inorg. Chem.* **1991**, *30*, 1445-1455.
233. Rogers, R. D.; Rollins, A. N.; Henry, R. F.; Murdoch, J. S.; Etzenhouser, R. D.; Huggins, S. E.; Nuñez, L. "Direct Comparison of the Preparation and Structural Features of Crown Ether and Polyethylene Glycol Complexes of $NdCl_3\bullet 6H_2O$," *Inorg. Chem.* **1991**, *30*, 4946-4954.
234. Rogers, R. D.; Weitl, F. L.; Kevill, D. N. "Structure of 1-(1-adamantyl)-5-(α-methylvinyl)tetrazole," *J. Crystallogr. Spectrosc. Res.* **1991**, *21*, 661-665.
235. Zaworotko, M. J.; Sturge, K. C.; Nunez, L.; Rogers, R. D. "Sterically Crowded Organometallics. Influence of Complexation upon the Conformation of Hexakis(phenylethyl)benzene," *Organometallics* **1991**, *10*, 1806-1810.
236. Burford, N.; Mason, S.; Spence, R. E. v. H.; Whalen, J. M.; Richardson, J. F.; Rogers, R. D. ""Genuine Heterocycles" from the Acid-Induced Cyclization of (Silylamino)(imino)(chalcogeno)phosphoranes and as a Result of Chloride Ion Abstraction from Bis[bis(trimethylsilyl)amino]thiophosphoryl Chloride," *Organometallics* **1992**, *11*, 2241-2250.
237. Burford, N.; Spence, R. E. v. H.; Whalen, J. M.; Richardson, J. F.; Rogers, R. D. "Novel Cyclisations of the Chalcogeno-Phosphoryl Unit and the Formation of Genuine Heterocycles," *Phosphorus, Sulfur, and Silicon* **1992**, *64*, 137-144.
238. Gilbert, T. M.; Landes, A. M.; Rogers, R. D. "Synthesis and Electronic Properties of Triply Bonded Hexakis(fluoroalkoxy)dimolybdenum Complexes. Structure of $Mo_2[OCMe(CF_3)_2]_6$ and Investigation of the Nature of the Frontier Orbitals in Triply Bonded M_2X_6 Compounds," *Inorg. Chem.* **1992**, *31*, 3438-3444.
239. Nuñez, L.; Rogers, R. D. "Crystal Structure of $[PrCl_3$(15-crown-5)] Prepared via Electrocrystallization," *J. Crystallogr. Spectrosc. Res.* **1992**, *22*, 265-269.
240. Paquette, L. A.; Andrews, J. F. P.; Vanucci, C.; Lawhorn, D. E.; Negri, J. T.; Rogers, R. D. "Regio- and Stereochemical Course of the Ring Expansion of Bridged Bicyclic Ketones to Spirocyclic α-Keto Tetrahydrofurans," *J. Org. Chem.* **1992**, *57*, 3956-3965.
241. Paquette, L. A.; Branan, B. M.; Rogers, R. D. "X-ray Crystallographic Study of α-Brominated Diketo Tetraquinanes. Conformational Effects of the Number of Halogens and their Position on Bond Length and Solid-State Conformation," *Tetrahedron* **1992**, *48*, 297-306.
242. Paquette, L. A.; Elmore, S. W.; Combrink, K. D.; Hickey, E. R.; Rogers, R. D. "134. An Enantioselective Approach to the Taxanes: Direct Access to Functionalized *cis*-Tricyclo[9.3.1.$0^{3,8}$]pentadecanes *via* α-Hydroxy Ketone and *Wagner-Meerwein* Rearrangements," *Helv. Chim. Acta* **1992**, *75*, 1755-1771.
243. Paquette, L. A.; Kesselmayer, M. A.; Underiner, G. E.; House, S. D.; Rogers, R. D.; Meerholz, K.; Heinze, J. "Multifaceted Consequences of Holding Two [8] Annulene Rings Face-to-Face. Synthesis, Structural Characteristics, and Reduction Behavior of [2_2](1,5)Cyclooctatetraenophane," *J. Am. Chem. Soc.* **1992**, *114*, 2644-2652.

244. Paquette, L. A.; Negri, J. T.; Rogers, R. D. "Synthesis and Molecular Structure of Belted Spirocyclic Tetrahydrofurans, a New Class of Preorganized Hosts for Cations," *J. Org. Chem.* **1992**, *57*, 3947-3956.
245. Peterson, J. R.; Zjawiony, J. K.; Liu, S.; Hufford, C. D.; Clark, A. M.; Rogers, R. D. "Copyrine Alkaloids: Synthesis, Spectroscopic Characterization, and Antimycotic/Antimycobacterial Activity of A- and B-Ring-Functionalized Sampangines," *J. Med. Chem.* **1992**, *35*, 4069-4077.
246. Rogers, R. D.; Benning, M. M.; Etzenhouser, R. D.; Rollins, A. N. "Synthesis and Structural Characterization of the Monodentate 12-Crown-4 and Hexaethylene Glycol Complexes of Uranium(VI): $[UO_2Cl_2(OH_2)_2$(12-crown-4)]•12-crown-4 and $UO_2Cl_2(OH_2)_2$(hexaethylene glycol)," *J. Coord. Chem.* **1992**, *26*, 299-311.
247. Rogers, R. D.; Bond, A. H. "Crown Ether Complexes of Lead(II) Nitrate. Crystal Structures of the 12-Crown-4, 15-Crown-5, Benzo-15-Crown-5, and 18-Crown-6 Complexes," *Inorg. Chim. Acta* **1992**, *192*, 163-171.
248. Rogers, R. D.; Bond, A. H. "Structure of $[ThCl(OH)(OH_2)_6]_2Cl_4$•18-crown-6•$2H_2O$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1992**, *C48*, 1199-1201.
249. Rogers, R. D.; Bond, A. H. "Structure of [Ca(triethylene glycol)$_2$]Cl_2•$4H_2O$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1992**, *C48*, 1782-1785.
250. Rogers, R. D.; Bond, A. H.; Aguinaga, S. "Alcoholysis of $Bi(NO_3)_3$•$5H_2O$ by Polyethylene Glycols. Comparison with Bismuth(III) Nitrate Crown Ether Complexation," *J. Am. Chem. Soc.* **1992**, *114*, 2960-2967.
251. Rogers, R. D.; Bond, A. H.; Aguinaga, S.; Reyes, A. "Complexation Chemistry of Bismuth(III) Halides with Crown Ethers and Polyethylene Glycols. Structural Manifestations of a Stereochemically Active Lone Pair," *J. Am. Chem. Soc.* **1992**, *114*, 2967-2977.
252. Rogers, R. D.; Bond, A. H.; Hipple, W. G. "Synthesis and Crystal Structure of $[UO_2(NO_3)_2(OH_2)_2]$•2(benzo-15-crown-5)," *J. Crystallogr. Spectrosc. Res.* **1992**, *22*, 365-369.
253. Rogers, R. D.; Etzenhouser, R. D.; Murdoch, J. S. "Triethylene Glycol Complexes of the Early Lanthanide(III) Chlorides," *Inorg. Chim. Acta* **1992**, *196*, 73-79.
254. Rogers, R. D.; Henry, R. F. "Crystal Structure of $[CeCl(OH_2)_3(EG4)]Cl_2$•H_2O (EG4 = Tetraglyme)," *J. Crystallogr. Spectrosc. Res.* **1992**, *22*, 361-364.
255. Rogers, R. D.; Henry, R. F. "Structure of $[PrCl_3(EO4)]_2$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1992**, *C48*, 1099-1101.
256. Rogers, R. D.; Henry, R. F.; Rollins, A. N. "Macrocycle Complexation Chemistry. 38. Crystallographic and Ultraviolet/Visible Characterization of Nitrobenzo-15-crown-5, Dinitrobenzo-15-crown-5, and Dinitrodibenzo-18-crown-6•$2CH_3CN$," *J. Inclusion Phenom. Mol. Recognit. Chem.* **1992**, *13*, 219-232.
257. Rogers, R. D.; Huggins, S. E.; Henry, R. F.; Bond, A. H. "Arene-Substituent Effects in Benzo-15-crown-5 Complexes. The Crystal Structures of 4-Aminobenzo-15-crown-5 and $[KI(OH_2)$(4-nitrobenzo-15-crown-5)$]_2$," *Supramol. Chem.* **1992**, *1*, 59-63.
258. Alt, H. G.; Han, J. S.; Rogers, R. D. "Darstellung und Charakterisierung von Indenyl- und Fluorenylfunktionalisierten Cyclopentadienylcarbonyl-Methylkomplexen des Molybdäns und Wolframs. Molekülstrukturen von (η^5-$C_5H_4CMe_2C_9H_7$)M(CO)$_3$Me (M = Mo,W), (η^5-$C_5H_4CMe_2C_{13}H_9$)M(CO)$_3$Me und (η^5:η^2-$C_5H_4CMe_2C_9H_7$)Mo(CO)$_2$Me," *J. Organomet. Chem.* **1993**, *445*, 115-124.
259. Alt, H. G.; Han, J. S.; Rogers, R. D. "Photoinduzierte Desalkylierungsreaktionen an Indenyl- und Fluorenylfunktionalisierten Cyclopentadienyltricarbonyl-Methylkomplexen des Molybdäns und Wolframs. Molekülstrukturen von (η^5:η^1-$C_5H_4CMe_2C_9H_6$)Mo(CO)$_3$, (η^5:η^1- $C_5H_4CMe_2C_{13}H_8$)W(CO)$_3$, und [(η^5-$C_5H_4(CH_2)_3C_{13}H_9$)W(CO)$_3$]$_2$," *J. Organomet. Chem.* **1993**, *454*, 165-172.
260. Alt, H. G.; Han, J. S.; Rogers, R. D.; Thewalt, U. "Acetylenkomplexe des Wolframs. Molekülstrukturen von (η^5-$C_5H_4CMe_2C_{13}H_9$)W(CO)(HC_2Ph)Me, (η^5:η^1-$C_5H_4CMe_2C_{13}H_8$)W(CO)(C_2Ph_2) und (η^5-C_5H_5)Cr(CO)(C_2H_2)NO; ein Vergleich von alkinischen Vier- und Zweielektronenliganden," *J. Organomet. Chem.* **1993**, *459*, 209-217.
261. Beachley, O. T., Jr.; Maloney, J. D.; Rogers, R. D. "Gallium and Indium Compounds Containing Three Different Substituents. Crystal and Molecular Structure of [(Me_3CCH_2)ClGaPPh_2]$_3$," *J. Organomet. Chem.* **1993**, *449*, 69-75.
262. Beachley, O. T., Jr.; Maloney, J. D.; Rogers, R. D. "Synthesis of [(Me_3CCH_2)Ga(PPh_2)$_2$]$_2$ from [(Me_3CCH_2)ClGaPPh_2]$_3$," *Organometallics* **1993**, *12*, 229-232.
263. Burford, N.; Losier, P.; Mason, S.; Royan, B. W.; Spence, R. E. v. H.; Bakshi, P. K.; Borecka, B.; Cameron, T. S.; Richardson, J. F.; Rogers, R. D. "The Stability of *Carbenic* and *Alkenic* Phosphorus Environments," *Phosphorus, Sulfur Silicon Relat. Elem.* **1993**, *76*, 17-20.
264. Filippou, A. C.; Völkl, C.; Rogers, R. D. "Metal-Centered C-C Coupling of Nitriles with 1- Azaallyl Ligands; Synthesis and Structure of β-Diiminato Complexes of Tungsten," *J. Organomet. Chem.* **1993**, *463*, 135-142.
265. Gilbert, T. M.; Rogers, R. D. "Structure of [W_2(μ-C_2){OC(CH_3)$_3$}$_6$]: a Dimetallabutadiyne," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1993**, *C49*, 677-680.
266. Hadley, F. J.; Gilbert, T. M.; Rogers, R. D. "Crystal Structures of (η^6-C_7H_8)M(CO)$_3$ (M = Cr, W). Comparisons Among a Homologous Series of Cycloheptatriene Complexes and Experimental Evidence for a Boat Conformation of the Coordinated Ring," *J. Organomet. Chem.* **1993**, *455*, 107-113.
267. Heeres, H. J.; Nijhoff, J.; Teuben, J. H.; Rogers, R. D. "Reversible Carbon-Carbon Bond Formation in Organolanthanide Systems. Preparation and Properties of Lanthanide Acetylides [Cp^*_2LnC/CR]$_n$ and Their Rearrangement Products [Cp^*_2Ln]$_2$(μ-η^2:η^2-RC_4R) (Ln = La, Ce, R = alkyl)," *Organometallics* **1993**, *12*, 2609-2617.
268. Horwitz, E. P.; Dietz, M. L.; Diamond, H.; Rogers, R. D.; Leonard, R. A. "Advanced Chemical Separations in Support of the

Clean Option Strategy," In *International Conference and Technology Exhibition on Future Nuclear Systems: Emerging Fuel Cycles and Waste Disposal Options Global '93*, American Nuclear Society, Inc.: La Grange Park, IL, 1993; Vol. 1; pp 39-43.
269. Horwitz, E. P.; Dietz, M. L.; Diamond, H.; Rogers, R. D.; Leonard, R. A. "Combined TRU-Sr Extraction/Recovery Process," In *Solvent Extraction in the Process Industries, Proceedings of ISEC '93*; Logsdail, D. H.; Slater, M. J., Eds.; Elsevier: London, 1993; Vol. 3; pp 1805-1812.
270. Hufford, C. D.; Jia, Y.; Croom, E. M., Jr.; Muhammed, I.; Okunade, A. L.; Clark, A. M.; Rogers, R. D. "Antimicrobial Compounds from *Petalostemum purpureum*," *J. Nat. Prod.* **1993**, *56*, 1878-1889.
271. Nuñez, L.; Rogers, R. D. "Utilization of Crown Ether Chemistry to Prepare Bimetallic Compounds: Preparation and Structural Characterization of $[Ba(15\text{-crown-}5)_2][CuCl_4]$," *J. Coord. Chem.* **1993**, *28*, 347-354.
272. Rogers, R. D.; Alt, H. G. "Crystal Structure of $Cr(CO)_5(NHMe_2)$," *J. Crystallogr. Spectrosc. Res.* **1993**, *23*, 533-535.
273. Rogers, R. D.; Bauer, C. B. "Crystal Structures of $[Gd_6(O)(OH)_8(NO_3)_6(OH_2)_{12}][NO_3]_2\bullet 2H_2O$ and $[NH_4]_2[Yb_6(O)(OH)_8(NO_3)_7(OH_2)_{10}][NO_3]_3\bullet H_2O$," *J. Crystallogr. Spectrosc. Res.* **1993**, *23*, 537-545.
274. Rogers, R. D.; Bond, A. H.; Aguinaga, S. "Synthesis and Crystallographic Characterization of $[Cd(OH_2)_2(\mu\text{-}Br)_4(Cd(2\text{-hydroxyethyl sulfide})(\mu\text{-}Br))_2]_n$," *J. Crystallogr. Spectrosc. Res.* **1993**, *23*, 857-862.
275. Rogers, R. D.; Bond, A. H.; Aguinaga, S.; Reyes, A. "Polyethylene Glycol Complexation of Cd^{2+}. Structures of Triethylene Glycol Complexes of $CdCl_2$, $CdBr_2$ and CdI_2," *Inorg. Chim. Acta* **1993**, *212*, 225-231.
276. Rogers, R. D.; Bond, A. H.; Bauer, C. B. "Aqueous Biphase Systems for Liquid/Liquid Extraction of f-Elements Utilizing Polyethylene Glycols," *Sep. Sci. Technol.* **1993**, *28*, 139-153.
277. Rogers, R. D.; Bond, A. H.; Bauer, C. B. "The Crown Ether Extraction of Group 1 and 2 Cations in Polyethylene Glycol-Based Aqueous Biphasic Systems at High Alkalinity," *Pure Appl. Chem.* **1993**, *65*, 567-572.
278. Rogers, R. D.; Bond, A. H.; Bauer, C. B. "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems," *Sep. Sci. Technol.* **1993**, *28*, 1091-1126.
279. Rogers, R. D.; Bond, A. H.; Bauer, C. B. "Polyethylene Glycol-Based Aqueous Biphasic Systems for Liquid/Liquid Extraction of Environmentally Toxic Heavy Metals," In *Solvent Extraction in the Process Industries, Proceedings of ISEC '93*; Logsdail, D. H.; Slater, M. J., Eds.; Elsevier: London, 1993; Vol. 3; pp 1641-1648.
280. Rogers, R. D.; Bond, A. H.; Wolff, J. L. "Structural Studies of Polyether Coordination to Mercury(II) Halides: Crown Ether versus Polyethylene Glycol Complexation," *J. Coord. Chem.* **1993**, *29*, 187-207.
281. Rogers, R. D.; Henry, R. F.; Ochrymowycz, L. A.; Toske, S. G. "The Improved Synthesis and Crystal Structure of 20-Thiocrown-4," *J. Inclusion Phenom. Mol. Recognit. Chem.* **1993**, *15*, 145-152.
282. Rogers, R. D.; Macomber, D. W.; Liang, M. "Crystal Structure of a (μ-Bis(carbene))dimetal Complex of Tungsten," *J. Crystallogr. Spectrosc. Res.* **1993**, *23*, 623-628.
283. Rogers, R. D.; Rollins, A. N.; Etzenhouser, R. D.; Voss, E. J.; Bauer, C. B. "Structural Investigation into the Steric Control of Polyether Complexation in the Lanthanide Series: Macrocyclic 18-Crown-6 versus Acyclic Pentaethylene Glycol," *Inorg. Chem.* **1993**, *32*, 3451-3462.
284. Rogers, R. D.; Sivik, M. R.; Paquette, L. A. "Isodicyclopentadienes and Related Molecules LVII. Solid State Structural Studies of the Diastereomeric *exo*- and *endo*-(η^5-Cyclopentadienyl)(η^5-1*S*,8*R*)-9,9-dimethyltricyclo[6.1.1.$0^{2,6}$]deca-2,5-dienyl)dichlorotitaniums and a Stereopure *exo*-(η^5-Pentamethyl-cyclopentadienyl) Congener," *J. Organomet. Chem.* **1993**, *450*, 125-135.
285. Sangokoya, S. A.; Pennington, W. T.; Byers-Hill, J.; Robinson, G. H.; Rogers, R. D. "Toward Unusual Al-O Compounds. Synthesis and Molecular Structure of $[Al_4O(OCH_2CF_3)_{11}]^-$: Structural Characterization of a Novel Al_4O_{12} Cluster," *Organometallics* **1993**, *12*, 2429-2431.
286. Donaldson, W. A.; Shang, L.; Rogers, R. D. "Reactivity of Tricarbonyl(pentadienyl)iron(1+) Cations: Preparation of an Optically Pure Tricarbonyl(diene)iron Complex via Second-Order Asymmetric Transformation," *Organometallics* **1994**, *13*, 6-7.
287. Fierro, R.; Rausch, M. D.; Rogers, R. D.; Herberhold, M. "New Sulfur and Selenium Derivatives of (η^5-Cyclopentadienyl)(η^7-cycloheptatrienyl)titanium, and Their Application in the Syntheses of Heterobimetallic Compounds," *J. Organomet. Chem.* **1994**, *472*, 87-95.
288. Gilbert, T. M.; Bond, A. H.; Rogers, R. D. "Structures of a Series of $[4\text{-R-}C_6H_4\text{-}CH(OR')_2]Cr(CO)_3$ Complexes: Evidence Against a Favored Carbonyl Orientation in (*Para*-disubstituted Arene)chromium Tricarbonyl Compounds," *J. Organomet. Chem.* **1994**, *479*, 73-86.
289. Gilbert, T. M.; Hadley, F. J.; Bauer, C. B.; Rogers, R. D. "Organotransition Metal Compounds for Photonics: Syntheses and Structures of a Series of (Nitrostilbene)chromium Tricarbonyl Complexes," *Organometallics* **1994**, *13*, 2024-2034.
290. Gilbert, T. M.; Rogers, R. D. "Structures of Z-(Nitrostilbene)chromium Tricarbonyl Complexes: The Effect of Metal Coordination on the Nonplanarity of the Stilbene System," *J. Chem. Crystallogr.* **1994**, *24*, 315-320.
291. Hasinoff, L.; Takats, J.; Zhang, X. W.; Bond, A. H.; Rogers, R. D. "Application of the Sterically Demanding Hydrotris(3-*tert*-butyl-5-methylpyrazolyl)borate Ligand to Ln(II) Chemistry: Synthesis of a New Class of Mixed-Ligand Yb(II) Complexes," *J. Am. Chem. Soc.* **1994**, *116*, 8833-8834.
292. Ji, Z. P.; Rogers, R. D. "Structure of $[La(NO_3)_3(OH_2)_2(OHMe)(bipy)]\bullet$15-crown-5," *J. Chem. Crystallogr.* **1994**, *24*, 415-419.
293. Ji, Z. P.; Rogers, R. D. "The Synthesis and Crystal Structure of $[La(OH_2)_5(phen)_2]Cl_3\bullet 4H_2O\bullet$phen," *J. Chem. Crystallogr.* **1994**, *24*, 797-800.
294. Khalifa, S. I.; Baker, J. K.; Rogers, R. D.; El-Feraly, F. S.; Hufford, C. D. "Microbial and Mammalian Metabolism Studies of the Semisynthetic Antimalarial, Anhydrodihydroartemisinin," *Pharm. Res.* **1994**, *11*, 990-994.
295. O'Doherty, G. A.; Rogers, R. D.; Paquette, L. A. "Consequences of Modulated Precompression along Reaction Coordinates.

Synthesis, Crystallographic Structural Studies, and Rate of Intramolecular Dyotropy in an Extended Series of *syn*-Sesquinorbornene Disulfones," *J. Am. Chem. Soc.* **1994**, *116*, 10883-10894.
296. Okunade, A. L.; Liu, S.; Clark, A. M.; Hufford, C. D.; Rogers, R. D. "Sesquiterpene Lactones from *Peucephyllum schottii*," *Phytochemistry* **1994**, *35*, 191-194.
297. Paquette, L. A.; Branan, B. M.; Friedrich, D.; Edmondson, S. D.; Rogers, R. D. "Analysis of the Conformational Nature, Resolvability, and Thermal Racemization of Hetero 2,3-Dispiro Cyclohexanones. The Weighting of Carbonyl/C-X Stabilization Relative to the Electronic Interaction between the Vicinal Electronegative Substituents," *J. Am. Chem. Soc.* **1994**, *116*, 506-513.
298. Rogers, R. D.; Adrowski, M. J.; Bond, A. H. "Crystal Structure of $Pt(S_2COEt)_2$," *J. Chem. Crystallogr.* **1994**, *24*, 707-710.
299. Rogers, R. D.; Bauer, C. B. "Structure of Diethylenetriammonium Nitrate," *J. Chem. Crystallogr.* **1994**, *24*, 281-283.
300. Rogers, R. D.; Bauer, C. B. "Crystal Structure of Pyridinium Hydrogen Sulfate, $[HC_5H_5N][HSO_4]$," *J. Chem. Crystallogr.* **1994**, *24*, 285-287.
301. Rogers, R. D.; Bauer, C. B.; Bond, A. H. "Crown Ethers as Actinide Extractants in Acidic Aqueous Biphasic Systems: Partitioning Behavior in Solution and Crystallographic Analyses of the Solid State," *J. Alloys Compd.* **1994**, *213/214*, 305-312.
302. Rogers, R. D.; Jezl, M. L. "Ammonium Heptachlorooxodiantimonate(III), $(NH_4)_3[Sb_2Cl_7O]$," *Acta Crystallogr., Sect. C. Cryst. Struct. Commun.* **1994**, *C50*, 1527-1529.
303. Rogers, R. D.; Jezl, M. L.; Bauer, C. B. "Effects of Polyethylene Glycol on the Coordination Sphere of Strontium in $SrCl_2$ and $Sr(NO_3)_2$ Complexes," *Inorg. Chem.* **1994**, *33*, 5682-5692.
304. Rogers, R. D.; Rollins, A. N. "Primary to Secondary Sphere Coordination of 18-Crown-6 to Lanthanide(III) Nitrates: Structural Analysis of $[Pr(NO_3)_3$(18-crown-6)] and $[M(NO_3)_3(OH_2)_3]$•18-crown-6 (M = Y, Eu, Tb-Lu)," *J. Chem. Crystallogr.* **1994**, *24*, 321-329.
305. Rogers, R. D.; Rollins, A. N. "Primary to Secondary Sphere Coordination of 15-Crown-5 to Lanthanide(III) Chlorides: Structural Analysis of $[MCl_3$(15-crown-5)] (M = La, Ce) and $[Er(OH_2)_8]Cl_3$•15-crown-5," *J. Chem. Crystallogr.* **1994**, *24*, 531-537.
306. Bauer, C. B.; Rogers, R. D.; Nuñez, L.; Ziemer, M. D.; Pleune, T. T.; Vandegrift, G. F.; "Review and Evaluation of Extractants for Strontium Removal Using Magnetically Assisted Chemical Separation," Report ANL-95/26, Argonne National Laboratory: Argonne, IL 1995; 25 pp.
307. Beachley, O. T., Jr.; Maloney, J. D.; Banks, M. A.; Rogers, R. D. "Synthesis and Characterization of a Series of Organoindium Phosphides, Including Molecular Structures of $[(Me_3CCH_2)_2InPEt_2]_2$ and $[(Me_3CCH_2)_2InP(H)(C_6H_{11})]_3$," *Organometallics* **1995**, *14*, 3448-3454.
308. Black, D. G.; Swenson, D. C.; Jordan, R. F.; Rogers, R. D. "Tetraaza Macrocycles as Ancillary Ligands in Early Metal Alkyl Chemistry. Synthesis and Characterization of Out-of-Plane $(Me_4taen)ZrX_2$ (X = Alkyl, Benzyl, NMe_2, Cl) and $(Me_4taen)ZrX_2(NHMe_2)$ (X = Cl, CCPh) Complexes," *Organometallics* **1995**, *14*, 3539-3550.
309. Bowen, D. E.; Jordan, R. F.; Rogers, R. D. "Group 4 Metal Mono-Dicarbollide Piano Stool Complexes. Synthesis, Structure, and Reactivity of $(\eta^5\text{-}C_2B_9H_{11})M(NR_2)_2(NHR_2)$ (M = Zr, R = Et; M = Ti, R = Me, Et)," *Organometallics* **1995**, *14*, 3630-3635.
310. Dietz, M. L.; Horwitz, E. P.; Rogers, R. D. "Extraction of Strontium from Acidic Nitrate Media Using a Modified PUREX Solvent," *Solvent Extr. Ion Exch.* **1995**, *13*, 1-17.
311. Feil-Jenkins, J. F.; Nash, K. L.; Rogers, R. D. "Lanthanide Complexes with Tetrahydrofuran-2,3,4,5-tetracarboxylic Acid: The Effect of Ligand Rigidity on Cation Size-Selectivity," *Inorg. Chim. Acta* **1995**, *236*, 67-74.
312. Fu, W.; McDonald, R.; Takats, J.; Bond, A. H.; Rogers, R. D. "Cycloheptatrienyl bridged heterobimetallic complexes: fluxional behavior and X-ray crystal structure of *syn*-$(\mu^3{:}\eta^2\text{-}C_7H_7)Fe(CO)_3Pd(\eta^3\text{-}C_3H_5)$," *Inorg. Chim. Acta* **1995**, *229*, 307-313.
313. Galindo, A.; Gutiérrez, E.; Monge, A.; Paneque, M.; Pastor, A.; Pérez, P. J.; Rogers, R. D.; Carmona, E. "Dinitrogen, Butadiene and Related Complexes of Molybdenum. Crystal Structures of $Mo(N_2)(PMe_3)_5$ and $[Mo(\eta^3\text{-}CH_3CHCHCH_2)(\eta^4\text{-}C_4H_6)(PEt_3)_2][BF_4]$," *J. Chem. Soc., Dalton Trans.* **1995**, 3801-3808.
314. Horwitz, E. P.; Dietz, M. L.; Diamond, H.; Rogers, R. D.; Leonard, R. A. "Combined TRUEX-SREX Extraction/Recovery Process," In *Chemical Pretreatment of Nuclear Waste for Disposal*; Schulz, W. W.; Horwitz, E. P., Eds.; Plenum: New York, 1995; pp 81-99.
315. Hufford, C. D.; Khalifa, S. I.; Orabi, K. Y.; Wiggers, F. T.; Kumar, R.; Rogers, R. D.; Campana, C. F. "1α-Hydroxyarteether, a New Microbial Transformation Product," *J. Nat. Prod.* **1995**, *58*, 751-755.
316. Paquette, L. A.; Branan, B. M.; Rogers, R. D. "High-Pressure Diels-Alder Reactions of 1-Oxa[4.4.4]propella-5,7-diene Proceed with Framework Isomerization," *J. Org. Chem.* **1995**, *60*, 1852-1855.
317. Paquette, L. A.; Branan, B. M.; Rogers, R. D.; Bond, A. H.; Lange, H.; Gleiter, R. "Heteroatomic Influences on the π-Facial Selectivity of Diels-Alder Cycloadditions to Dispiro[4.0.4.4]tetradeca-11,13-dienes," *J. Am. Chem. Soc.* **1995**, *117*, 5992-6001.
318. Peterson, J. R.; Zjawiony, J. K.; Clark, A. M.; Hufford, C. D.; Rogers, R. D. "Antifungal Copyrine Alkaloids: Crystal Structure of 3-Methylsampangine," *J. Chem. Crystallogr.* **1995**, *25*, 223-226.
319. Rogers, R. D.; Bauer, C. B.; Bond, A. H. "Novel Polyethylene Glycol-Based Aqueous Biphasic Systems for the Extraction of Strontium and Cesium," *Sep. Sci. Technol.* **1995**, *30*, 1203-1217.
320. Rogers, R. D.; Bond, A. H.; Bauer, C. B.; Zhang, J.; Jezl, M. L.; Roden, D. M.; Rein, S. D.; Chomko, R. R. "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems," In *Aqueous Biphasic Separations: Biomolecules to Metal Ions*; Rogers, R. D.; Eiteman, M. A., Eds.; Plenum: New York, 1995; pp 1-20.
321. Rogers, R. D.; Bond, A. H.; Bauer, C. B.; Zhang, J.; Rein, S. D.; Chomko, R. R.; Roden, D. M. "Partitioning Behavior of ^{99}Tc and ^{129}I from Simulated Hanford Tank Wastes Using Polyethylene Glycol-Based Aqueous Biphasic Systems," *Solvent Extr. Ion Exch.* **1995**, *13*, 689-713.
322. Rogers, R. D.; Bond, A. H.; Henry, R. F.; Rollins, A. N. "The Effects of Methylene-Substituents in Crown Ether Backbones.

Crystal Structures of [Na(OH_2)(methylene-16-crown-5)]I, [Na(NO_2)(methylene-16-crown-5)]•0.5(H_2O), 3,16-Dimethylene-26-crown-8, [Na_4I_4(3,16-dimethylene-26-crown-8)], and [$Na_2(OH_2)_4$(3,16-dimethylene-26-crown-8)]I_2," *Supramol. Chem.* **1995**, *4*, 191-202.
323. Rogers, R. D.; Rollins, A. N. "Mixed Anion Lanthanide(III) Crown Ether Complexes: Crystal Structures of [$LaCl_2(NO_3)$(12-crown-4)]$_2$, [$La(NO_3)(OH_2)_4$(12-crown-4)]Cl_2•CH_3CN and [$LaCl_2(NO_3)$(18-crown-6)]," *Inorg. Chim. Acta* **1995**, *230*, 177-183.
324. Rogers, R. D.; Rollins, A. N.; Gatrone, R. C.; Horwitz, E. P. "Comparison of the Crystal Structure and Molecular Models of N-N-Diisobutyl-2-(octylphenylphosphinyl)acetamide (CMPO)," *J. Chem. Crystallogr.* **1995**, *25*, 43-49.
325. Rogers, R. D.; Song, Y. "Crystal Structure Analyses of Two Crown Ether Complexes of Copper(II) Nitrate: [$Cu(NO_3)_2$(12-crown-4)] and [$Cu(OH_2)_2$(15-crown-5)][NO_3]$_2$," *J. Coord. Chem.* **1995**, *34*, 149-157.
326. Rogers, R. D.; Song, Y. "The Crystal Structure of a Heterobimetallic Crown Ether Complex: [Na(dibenzo-18-crown-6)][$FeCl_4$]," *J. Chem. Crystallogr.* **1995**, *25*, 579-582.
327. Rogers, R. D.; Zhang, J.; Bond, A. H.; Bauer, C. B.; Jezl, M. L.; Roden, D. M. "Selective and Quantitative Partitioning of Pertechnetate in Polyethylene Glycol-Based Aqueous Biphasic Systems," *Solvent Extr. Ion Exch.* **1995**, *13*, 665-688.
328. Whitcomb, D. R.; Rogers, R. D. "The Properties, Crystal, and Molecular Structure of Catena-[(μ-actetato-)(μ-phthalazine)silver(I)dihydrate]: {[Ag(μ-O_2CCH_3)(μ-PHZ)(H_2O)$_2$]$_2$}$_n$," *J. Chem. Crystallogr.* **1995**, *25*, 137-142.
329. Beachley, O. T., Jr.; Banks, M. A.; Kopasz, J. P.; Rogers, R. D. "Main Group Compounds as Amphoteric Ligands to Transition Metals. Synthesis and Molecular Structure of $Cr(CO)_5$[$PPhCH_2Ga(CH_2CMe_3)_2$•NMe_3]," *Organometallics* **1996**, *15*, 5170-5174.
330. Blair, J. T.; Patel, R. C.; Rogers, R. D.; Whitcomb, D. W. "The Molecular Structure of [bis-(2- (Tribromomethylsulfonyl-benzothiazole)-silver(I)-tetrafluroborate•(acetone)] [Ag{(C_7H_4NS)SO_2CBr_3}$_2BF_4$•Me_2CO]: A Possible Model for Bromine Elimination of Silver Halide Fog Centers," *J. Imaging Sci. Technol.* **1996**, *40*, 117-122.
331. Brechbiel, M. W.; Gansow, O. A.; Pippin, C. G.; Rogers, R. D.; Planalp, R. P. "Preparation of the Novel Chelating Agent *N*-(2-Aminoethyl)-*trans*-1,2-diaminocyclohexane-*N,N′,N″*-pentaacetic Acid (H_5CyDTPA), a Preorganized Analogue of Diethylenetriaminepentaacetic Acid (H_5DTPA), and the Structures of $Bi^{III}(CyDTPA)^{2-}$ and $Bi^{III}(H_2DTPA)$ Complexes," *Inorg. Chem.* **1996**, *35*, 6343-6348.
332. Brogan, J. B.; Bauer, C. B.; Rogers, R. D.; Zercher, C. K. "Selectivity in the Rearrangements of Oxonium Ylides," *Tetrahedron Lett.* **1996**, *37*, 5053-5056.
333. Chen, M. J.; Nuñez, L.; Rathke, J. W.; Rogers, R. D. "Hydrido(1,4,8,11,15,18,22,25-octa-*n*- pentylphthalocyanato)-rhodium Dimers: Single-Crystal X-ray Structure, and the Isomerization of the Four Isomers," *Organometallics* **1996**, *15*, 2338-2344.
334. Cooke, J.; McClung, R. E. D.; Takats, J.; Rogers, R. D. "Synthesis, Characterization, and Dynamic Behavior of $Os_2Pt(CO)_8(PPh_3)_2$: A Trinuclear Osmium-Platinum Cluster with Flexible Metal Framework," *Organometallics* **1996**, *15*, 4459-4468.
335. Fettinger, J. C.; Mattamana, S. P.; Poli, R.; Rogers, R. D. "Accessibility of 17-Electron Structures for Cyclopentadienylchromium(III) Compounds. 1. Experimental Studies on the Dichloride and Dimethyl Compounds," *Organometallics* **1996**, *15*, 4211-4222.
336. Gilbert, T. M.; Bauer, C. B.; Rogers, R. D. "Structures of (η^6-Benzene dimethylacetal)- and (η^6-Benzene diethylacetal)chromium Tricarbonyl: Structural Evidence for the Near-Electroneutrality of the Dialkylacetal Substituent," *J. Chem. Crystallogr.* **1996**, *26*, 355-360.
337. Gilbert, T. M.; Hadley, F. J.; Simmons, M. D.; Bauer, C. B.; Rogers, R. D. "Syntheses and Structures of Bis(tricarbonylchromium)-Substituted α, ω-Diphenylhexatriene Complexes," *J. Organomet. Chem.* **1996**, *510*, 83-92.
338. Ji, Z. P.; Rogers, R. D. "The Crystal Structure and Supramolecular Chain of [$La(NO_3)_3(OH_2)_2$(phen)]•15-crown-5," *J. Chem. Crystallogr.* **1996**, *26*, 573-577.
339. Johnson, C. P.; Atwood, J. L.; Steed, J. W.; Bauer, C. B.; Rogers, R. D. "Transition Metal Complexes of *p*-Sulfanatocalix[5]arene," *Inorg. Chem.* **1996**, *35*, 2602-2610.
340. Melendez, R. E.; Sharma, C. V. K.; Zaworotko, M. J.; Bauer, C.; Rogers, R. D. "Toward the Design of Porous Organic Solids: Modular Honeycomb Grids Sustained by Anions of Trimesic Acid," *Angew. Chem. Int. Ed. Engl.* **1996**, *35*, 2213-2215.
341. Paquette, L. A.; Morwick, T. M.; Negri, J. T.; Rogers, R. D. "Addition of 2,3-Dihydro-5-furanyllithium to Diisopropyl Squarate as a Means for the Rapid Generation of Structurally Complex Oxygen-Containing Tetraquinane Networks," *Tetrahedron* **1996**, *52*, 3075-3094.
342. Paquette, L. A.; Stephanian, M.; Branan, B. M.; Edmondson, S. D.; Bauer, C. B.; Rogers, R. D. "Conformational Analysis of Poly(spirotetrahydrofuranyl)cyclohexyl Systems. The Preference of Multiple C-O Bonds for Equatorial Occupancy," *J. Am. Chem. Soc.* **1996**, *118*, 4504-4505.
343. Rogers, R. D. "The Crystal and Molecular Structure of [η^5-$C_5H_3(SiMe_3)_2$]$_2$Yb(THF)," *J. Organomet. Chem.* **1996**, *512*, 97-100.
344. Rogers, R. D.; Bauer, C. B. "Water Soluble Calixarenes as Possible Metal Ion Extractants in Polyethylene Glycol-Based Aqueous Biphasic Systems," *J. Radioanal. Nucl. Chem.* **1996**, *208*, 153-161.
345. Rogers, R. D.; Bauer, C. B. "Partitioning Behavior of Group 1 and 2 Cations in Polyethylene Glycol-Based Aqueous Biphasic Systems," *J. Chromatogr., B: Biomed. Appl.* **1996**, *680*, 237-242.
346. Rogers, R. D.; Bauer, C. B. "Structural Chemistry of Metal-Crown Ether and Polyethylene Glycol Complexes Excluding Group 1 and 2," In *Comprehensive Supramolecular Chemistry*; Atwood, J. L.; Davies, J. E. D.; MacNicol, D. D.; Vögtle, F., Exec. Eds., Lehn, J. M., Chair. Ed. Bd., Vol. I, *Molecular Recognition: Receptors for Cationic Guests*; Gokel, G. W., Ed.; Pergamon: Exeter, 1996; pp 315-355.
347. Rogers, R. D.; Bond, A. H. "Crown Ether Mediated Cadmium Halide Dimers and Polymers," *Inorg. Chim. Acta* **1996**, *250*, 105-117.

348. Rogers, R. D.; Bond, A. H.; Bauer, C. B.; Griffin, S. T.; Zhang, J. "Polyethylene Glycol-Based Aqueous Biphasic Systems for Extraction and Recovery of Dyes and Metal/Dye Complexes," In: *Value Adding through Solvent Extraction Proceedings of ISEC'96*; Shallcross, D. C.; Paiman, R.; Prvcic, L. M. Eds.; The University of Melbourne: Parkville, Victoria, Australia, 1996; Vol. 2; pp 1537-1542.
349. Rogers, R. D.; Bond, A. H.; Bauer, C. B.; Zhang, J.; Griffin, S. T. "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems: Correlation of Partitioning Behavior with Available Thermodynamic Hydration Data," *J. Chromatogr., B: Biomed. Appl.* **1996**, *680*, 221-230.
350. Rogers, R. D.; Bond, A. H.; Griffin, S. T.; Horwitz, E. P. "New Technologies for Metal Ion Separations: Aqueous Biphasic Extraction Chromatography (ABEC). Part I. Uptake of Pertechnetate," *Solvent Extr. Ion Exch.* **1996**, *14*, 919-946.
351. Rogers, R. D.; Bond, A. H.; Roden, D. M. "Structural Chemistry of Poly(ethylene glycol) Complexes of Lead(II) Nitrate and Lead(II) Bromide," *Inorg. Chem.* **1996**, *35*, 6964-6973.
352. Rogers, R. D.; Bond, A. H.; Zhang, J.; Bauer, C. B. "Polyethylene Glycol Based-Aqueous Biphasic Systems as Technetium-99m Generators," *Appl. Radiat. Isotop.* **1996**, *47*, 497-499.
353. Rogers, R. D.; Zhang, J. "Effects of Increasing Polymer Hydrophobicity on Distribution Ratios of TcO_4^- in Polyethylene/Polypropylene Glycol-Based Aqueous Biphasic Systems," *J. Chromatogr., B: Biomed. Appl.* **1996**, *680*, 231-236.
354. Schulz, S.; Gillan, E. G.; Ross, J. L.; Rogers, L. M.; Rogers, R. D.; Barron, A. R. "Synthesis of Gallium Chalcogenide Cubanes and Their Use as CVD Precursors for Ga_2E_3 (E = S, Se)," *Organometallics* **1996**, *15*, 4880-4883.
355. Steed, J. W.; Tocher, D. A.; Rogers, R. D. "Ruthenium Mediated Cyclodimerisation of Buta-1,3-diene," *Chem. Commun.* **1996**, 1589-1590.
356. Tsai, W.-M.; Rausch, M. D.; Rogers, R. D. "Improved Synthesis of Pentabenzylcyclopentadiene and Study of the Reaction between Pentabenzylcyclopentadiene and Iron Pentacarbonyl," *Organometallics* **1996**, *15*, 2591-2594.
357. Whitcomb, D. R.; Rogers, R. D. "The Molecular Structure of [*bis*-Triphenylphosphine-silver(I)stearate], $[((C_6H_5)_3P)_2Ag(O_2C(CH_2)_{16}CH_3)]$, Solubilization of Long Alkyl Chain Silver Carboxylates," *J. Chem. Crystallogr.* **1996**, *26*, 99-105.
358. Zhao, H.; Heintz, R. A.; Dunbar, K. R.; Rogers, R. D. "Unprecedented Two-Dimensional Polymers of Mn(II) with $TCNQ^{\bullet-}$ (TCNQ = 7,7,8,8-Tetracyanoquinodimethane)," *J. Am. Chem. Soc.* **1996**, *118*, 12844-12845.
359. Zong, K.; Chen, W.; Cava, M. P.; Rogers, R. D. "Synthesis and Properties of Bis(2,5-dimethylpyrrolo[3,4-*d*])tetrathiafulvalenes, a Class of Annelated Tetrathiafulvalene Derivatives with Excellent Donor Properties," *J. Org. Chem.* **1996**, *61*, 8117-8124.
360. Adams, R. D.; McBride, K. T.; Rogers, R. D. "A New Route to Polyselenoether Macrocycles. Catalytic Macrocyclization of 3,3-Dimethylselenatane by $Re_2(CO)_9SeCH_2CMe_2CH_2$," *Organometallics* **1997**, *16*, 3895-3901.
361. Beachley, O. T., Jr.; Maloney, J. P.; Rogers, R. D. "Cyclopentadiene Elimination Reaction as a Route to Bis(neopentyl)gallium Phosphides. Crystal and Molecular Structures of $[(Me_3CCH_2)_2GaPEt_2]_2$ and $[(Me_3CCH_2)_2GaP(C_6H_{11})_2]_2$," *Organometallics* **1997**, *16*, 3267-3272.
362. Black, D. G.; Jordan, R. F.; Rogers, R. D. "Structural Trends in Group 4 Metal Tetraaza Macrocycle Complexes. Molecular Structures of $(Me_4taen)Zr(OtBu)_2$ and $(Me_4taen)Hf(NMe_2)_2$," *Inorg. Chem.* **1997**, *36*, 103-108.
363. Bodige, S. G.; Rogers, R. D.; Blackstock, S. C. "Supramolecular Networks *via* Pyridine *N*-oxide CH•••O Hydrogen Bonding in the Crystal Structures of 2,2'-Dithiobis(pyridine *N*-oxide) and its Complexes with 1,2,4,5-Tetracyanobenzene and Pyromellitic Dianhydride," *Chem. Commun.* **1997**, 1669-1670.
364. Brogan, J. B.; Zercher, C. K.; Bauer, C. B.; Rogers, R. D. "Study of the Rearrangements of Oxonium Ylides Generated from Ketals," *J. Org. Chem.* **1997**, *62*, 3902-2909.
365. Greer, M. L.; McGee, B. J.; Rogers, R. D.; Blackstock, S. C. "Pyrazinedioxide - Tetracyanoethylene Arrays in the Solid State - New Donor-Acceptor Interactions for Crystal Engineering," *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 1864-1866.
366. Hennigar, T. L.; MacQuarrie, D. C.; Losier, P.; Rogers, R. D.; Zaworotko, M. J. "Supramolecular Isomerism in Coordination Polymers: Conformational Freedom of Ligands in $[Co(NO_3)_2(1,2\text{-bis}(4\text{-pyridyl})\text{ethane})_{1.5}]_n$," *Angew. Chem. Int. Ed. Engl.* **1997**, *36*, 972-973.
367. Hilfiker, K. A.; Brechbiel, M. W.; Rogers, R. D.; Planalp, R. P. "Tricationic Metal Complexes ($[ML][NO_3]_3$, M = Ga, In) of *N*,*N*',*N*''-Tris(2-pyridylmethyl)-*cis*-1,3,5-triaminocyclohexane: Preparation and Structure," *Inorg. Chem.* **1997**, *36*, 4600-4603.
368. Kim, I.; Nishihara, Y.; Jordan, R. F.; Rogers, R. D.; Rheingold, A. L.; Yap, G. P. A. "Synthesis, Structures, Dynamics, and Olefin Polymerization Behavior of Group 4 Metal $(pyCAr_2O)_2M(NR_2)_2$ Complexes Containing Bidentate Pyridine-Alkoxide Ancillary Ligands," *Organometallics* **1997**, *16*, 3314-3323.
369. Luckay, R.; Cukrowski, I.; Mashishi, J.; Reibenspies, J. H.; Bond, A. H.; Rogers, R. D.; Hancock, R. D. "Synthesis, Stability and Structure of the Complex of Bismuth(III) with the Nitrogen-Donor Macrocycle 1,4,7,10-Tetraazacyclododecane. The Role of the Lone Pair on Bismuth(III) and Lead(II) in Determining Coordination Geometry," *J. Chem. Soc., Dalton Trans.* **1997**, 901-908.
370. McChesney, J. D.; Dou, J.; Sindelar, R. D.; Goins, D. K.; Walker, L. A.; Rogers, R. D. "Tirucallane- Type Triterpenoids: NMR and X-ray Diffraction Analyses of 24-*epi*-Piscidinol A and Piscidinol A," *J. Chem. Crystallogr.* **1997**, *27*, 283-290.
371. Morss, L. R.; Rogers, R. D. "Syntheses and Crystal Structures of $[M(NO_3)_2(tpen)][NO_3]\bullet 3H_2O$ (M = La, Tb), Rare Earth Complexes with Strong M-N Bonds," *Inorg. Chim. Acta* **1997**, *255*, 193-197.
372. Nuñez, L.; Rogers, R. D. "Synthesis and Structural Characterization of $[H_2(\text{diaza-18-crown-6})][CuCl_4]\bullet H_2O$," *J. Chem. Crystallogr.* **1997**, *27*, 5-10.
373. Rogers, R. D.; Bond, A. H. "Crystal Structure of $[Pb(\textit{cis-anti-cis}\text{-dicyclohexyl-18-crown-6})(OH_2)_2][ClO_4]_2$," *J. Chem. Crystallogr.* **1997**, *27*, 263-267.
374. Rogers, R. D.; Bond, A. H.; Zhang, J.; Horwitz, E. P. "New Technetium-99m Generator Technologies Utilizing Polyethylene

Glycol-Based Aqueous Biphasic Systems," *Sep. Sci. Technol.* **1997**, *32*, 867-882.
375. Rogers, R. D.; Griffin, S. T.; Horwitz, E. P.; Diamond, H. "Aqueous Biphasic Extraction Chromatography (ABEC™): Uptake of Pertechnetate from Simulated Hanford Tank Wastes," *Solvent Extr. Ion Exch.* **1997**, *15*, 547-562.
376. Rogers, R. D.; Zhang, J. "New Technologies for Metal Ion Separations *Polyethylene Glycol Based-Aqueous Biphasic Systems and Aqueous Biphasic Extraction Chromatography*," In *Ion Exchange and Solvent Extraction*; Vol. 13, Marinsky, J. A.; Marcus, Y., Eds.; Marcel Dekker: New York, 1997; Ch. 4, pp 141-193.
377. Rogers, R. D.; Zhang, J.; Bauer, C. B. "The Effects of Choice of Anion (X = Cl^-, SCN^-, NO_3^-) and Polyethylene Glycol (PEG) Chain Length on the Local and Supramolecular Structures of LnX_3/PEG Complexes," *J. Alloys Compd.* **1997**, *249*, 41-48.
378. Rogers, R. D.; Zhang, J.; Griffin, S. T. "The Effects of Halide Anions on the Partitioning Behavior of Pertechnetate in Polyethylene Glycol-Based Aqueous Biphasic Systems," *Sep. Sci. Technol.* **1997**, *32*, 699-707.
379. Sharma, C. V. K.; Bauer, C. B.; Rogers, R. D.; Zaworotko, M. J. "Interdigitated Supramolecular Laminates," *Chem. Commun.* **1997**, 1559-1560.
380. Simonsen, K. B.; Zong, K.; Rogers, R. D.; Cava, M. P.; Becher, J. "Stable Macrocyclic and Tethered Donor-Acceptor Systems. Intramolecular Bipyridinium and Tetrathiafulvalene Assemblies," *J. Org. Chem.* **1997**, *62*, 679-686.
381. Whitcomb, D. R.; Rogers, R. D. "The Molecular Structure of Catena-[(μ-phthalato)-di-(μ-phthalazine)-di-silver(I)hydrate] ($[Ag_2(\mu\text{-}(O_2C)_2C_6H_4)(\mu\text{-}PHZ)_2(H_2O)]_n$): Carboxylate Control of Side-on versus Stacked Coordination Polymerization," *Inorg. Chim. Acta* **1997**, *256*, 263-267.
382. Whitcomb, D. R.; Rogers, R. D. "Crystal and Molecular Structure of [Ammonia-silver(I)-2-(4-chlorobenzoyl)benzoate]: $[(NH_3)\bullet Ag(C_{14}H_8ClO_3)]$, a Silver Complex Containing Both Linear and Three-Coordinate Silvers," *Polyhedron* **1997**, *16*, 863-868.
383. Bauer, C. B.; Concolino, T. E.; Eglin, J. L.; Rogers, R. D.; Staples, R. J. "Synthesis of Dirhenium Species with Benzamide Ligands *via* Hydrolysis of Benzonitrile," *J. Chem. Soc., Dalton Trans.* **1998**, 2813-2817.
384. Bond, A. H.; Rogers, R. D. "Synthesis and X-ray Crystallographic Characterization of $[Cd(NO_3)_2$(15-crown-5)] and $[Cd(NO_3)_2$(18-crown-6)]," *J. Chem. Crystallogr.* **1998**, *28*, 521-527.
385. Brandon, E. J.; Rogers, R. D.; Burkhart, B. M.; Miller, J. S. "The Structure and Ferrimagnetic Behavior of *meso*-Tetraphenylporphinatomanganese(III) 1,4-Tetrachlorobenzoquinoneide, $[Mn^{III}TPP]^+[QCl_4]^{\bullet-}\bullet$PhMe. Evidence of a Quinoidal Structure for $[QCl_4]^{\bullet-}$," *Chem. Eur. J.* **1998**, *4*, 1938-1943.
386. Bünzli, J.-C. G.; Ihringer, F.; Dumy, P.; Sager, C.; Rogers, R. D. "Structural and Dynamic Properties of Calixarene Bimetallic Complexes: Solution *versus* Solid-State Structure of Dinuclear Complexes of Eu^{III} and Lu^{III} with Substituted Calix[8]arenes," *J. Chem. Soc., Dalton Trans.* **1998**, 497-503.
387. Cannon, R. D.; Jayasooriya, U. A.; Sowrey, F. E.; Tilford, C.; Little, A.; Bourke, J. P.; Rogers, R. D.; Vincent, J. B.; Kearley, G. J. "Concealed Asymmetry in an Exchange-Coupled Trichromium(III) Cluster: Structure and Magnetic Spectrum of $[Cr_3O(OOCPh)_6(py)_3](py)_{0.5}ClO_4$," *Inorg. Chem.* **1998**, *37*, 5675-5677.
388. Huddleston, J. G.; Willauer, H. W., Boaz, K. R.; Rogers, R. D. "Separation and Recovery of Food Coloring Dyes using Aqueous Biphasic Extraction Chromatographic Resins," *J. Chromatogr. B, Biomed. Sci. Appl.* **1998**, *711*, 237-244.
389. Huddleston, J. G.; Willauer, H. W., Swatloski, R. P.; Visser, A. E.; Rogers, R. D. "Room Temperature Ionic Liquids as Novel Media for 'Clean' Liquid-Liquid Extraction," *Chem. Commun.* **1998**, 1765-1766. (Highlighted in Freemantle, M. "'Green' solution for ionic liquids," *Chemical & Engineering News*, August 24, 1998, p 12; Guterman, L. "Weird mixtures replace toxic solvents," *New Scientist*, September 5, 1998, p 13; WJP "Room-temperature ionic liquids provide a new approach to liquid-liquid extraction of aromatics," *CHEMTECH*, May 1999, p 6. Reported to be the 6th most cited ionic liquids paper by ISI Essential Science Indicators, Special Topics (http://www.esi-topics.com/ionic-liquids/index.html May 2004) with 215 citations at that time. Reported to be the 22nd most cited paper in the 40 year history of *Chemical Communications*; http://www.rsc.org/Publishing/Journals/cc/News/Top40MostCitedArticles.asp September 8, 2005.)
390. Jackson, Y. A.; Rogers, L. M.; Rogers, R. D.; Cava, M. P. "Cycloaddition Products of 3-Oxido-1-phenylpyridinium and 1-Cyanoacenaphthylene," *J. Chem. Soc. Perkin I* **1998**, 1865-1868.
391. Martin, A.; Uhrhammer, R.; Gardner, T. G.; Jordan, R. F.; Rogers, R. D. "Neutral and Cationic Group 4 Metal Compounds Containing Octamethyldibenzotetraazaannulene (Me_8taa^{2-}) Ligands. Synthesis and Reactivity of $(Me_8taa)MX_2$ and $(Me_8taa)MX^+$ Complexes (M = Zr, Hf; X = Cl, hydrocarbyl, NR_2, OR)," *Organometallics* **1998**, *17*, 382-397.
392. Mohanakrishnan, A. K.; Lakskmikantham, M. V.; Cava, M. P.; Rogers, R. D.; Rogers, L. M. "*o*-Quinoid Heterocyclic Compounds: Naphtho[2,3-*c*]thiophene Revisited," *Tetrahedron* **1998**, *54*, 7075-7080.
393. Nash, K. L.; Rogers, R. D.; Ferraro, J.; Zhang, J. "Lanthanide Complexes with 1-Hydroxyethane-1,1-diphosphonic Acid: Solvent Organization and Coordination Geometry in Crystalline and Amorphous Solids," *Inorg. Chim. Acta* **1998**, *269*, 211-223.
394. Paquette, L. A.; Bolin, D. G.; Stephanian, M.; Branan, B. M.; Mallavadhani, U. V.; Tae, J.; Eisenberg, S. W. E.; Rogers, R. D. "Intramolecular Oxymercuration of Stereoisomeric Cyclohexyl-Belted Poly(spirotetrahydrofuranyl) Platforms," *J. Am. Chem. Soc.* **1998**, *120*, 11603-11615.
395. Paquette, L. A.; Rothhaar, R. R.; Isaac, M.; Rogers, L. M.; Rogers, R. D. "Diastereo- and Enantiodifferentiation in Indium-Promoted Allylations of 2,3-Azetidinediones in Water. Definition of Long-Range Stereocontrol Elements on π-Facial Selectivity for β-Lactam Synthesis," *J. Org. Chem.* **1998**, *63*, 5463-5472.
396. Rogers, R. D.; Griffin, S. T. "Partitioning of Mercury in Aqueous Biphasic Systems and on ABEC™ Resins," *J. Chromatogr. B, Biomed. Sci. Appl.* **1998**, *711*, 277-283.
397. Rogers, R. D.; Sharma, C. V. K.; Whitcomb, D. R. "Molecular Tweezers and Pentameric Aggregates: Convergent Hydrogen-Bonded Self-Assembly of 2:1 and 2:3 Cocrystals of Phthalazine:Phthalic Acid," *Crystal Eng. (*Suppl*., Mat. Res. Bull.)* **1998**,

3/4,255-262.
398. Rogers, R. D.; Willauer, H. D.; Griffin, S. T.; Huddleston, J. G. "Partitioning of Small Organic Molecules in Aqueous Biphasic Systems," *J. Chromatogr. B, Biomed. Sci. Appl.* **1998**, *711*, 255-263.
399. Rogers, R. D.; Zaworotko, M. J. "Whither Crystal Engineering?" In *Crystal Engineering*, Rogers, R. D.; Zaworotko, M. J., Eds.; Transactions of the American Crystallographic Association, Vol. 33; American Crystallographic Association: Buffalo, NY, 1998; pp 1-5.
400. Rogers, R. D.; Zhang, J.; Campbell, D. T. "Crown Ether Complexes of $UO_2(NCS)_2$ and $Th(NCS)_4$: Clues to Solution Behavior or Just Interesting Supramolecular Structures?," *J. Alloys Compd.* **1998**, *271-273*, 133-138.
401. Sharma, C. V. K.; Rogers, R. D. "C-H•••X (X = N,O) Hydrogen Bond-Mediated Assembly of Donors and Acceptors: The Crystal Structures of Phenazine Complexes with 1,4-Dinitrobenzene and TCNQ," *Crystal Eng. (*Suppl*., Mat. Res. Bull.)* **1998**, *1*, 139-145.
402. Sharma, C. V. K.; Rogers, R. D. "Discrete Macrocycles to Infinite Polymeric Frames: Crystal Engineering Studies of Ag(I):Pyrimidine Complexes," *Crystal Eng.* (Suppl., *Mat. Res. Bull.*) **1998**, *1*, 19-38.
403. Sharma, C. V. K.; Griffin, S. T.; Rogers, R. D. "Simple Routes to Supramolecular Squares with Ligand Corners: 1:1 Ag^{I}:Pyrimidine Cationic Tetranuclear Assemblies," *Chem. Commun.* **1998**, 215-216.
404. Sharma, C. V. K.; Swatloski, R. P.; Rogers, R. D. "4,4'-Dipyridine•$2H_2O$: Complementarity of Hydrogen Bond Donor:Acceptor Ratio," *Crystal Eng. (*Suppl*., Mat. Res. Bull.)* **1998**, *1*, 153-158.
405. Sharma, C. V. K.; Swenson, J. A.; Rogers, R. D. "The Design of Two Dimensional Polymeric Networks: Coordination Complexes of Cadmium Iodide with Bifunctional Ligands," In *Crystal Engineering*, Rogers, R. D.; Zaworotko, M. J., Eds.; Transactions of the American Crystallographic Association, Vol. 33; American Crystallographic Association: Buffalo, NY, 1998; pp 59-66.
406. Uzelmeier, C. E.; Bartley, S. L.; Fourmigué, M.; Rogers, R.; Grandinetti, G.; Dunbar, K. R. "Reaction of Octachlorodirhenate with a Redox-Active Tetrathiafulvalene Phosphine Ligand: Spectroscopic, Magnetic, and Structural Characterization of the Unusual Paramagnetic Salt $[ReCl_2(o\text{-}P2)_2][Re_2Cl_6(o\text{-}P2)]$ (o-P2 = *ortho*-$\{P(C_6H_5)_2\}_2(CH_3)_2TTF$)," *Inorg. Chem.* **1998**, *37*, 6706-6713.
407. Wisniewski, K.; Zamojski, A.; Rogers, R. D. "(Phenylthio)acetyliron Complex $[(\eta^5\text{-}C_5H_5)Fe(CO)(PPh_3)COCH_2SPh]$ Configuration of Aldols," *Tetrahedron* **1998**, *54*, 14201-14212.
408. Ye, N.; Rogers, R. D.; Brechbiel, M. W.; Planalp, R. P. "Synthesis and X-ray Crystal Structure of N,N',N"-Tris(2-thienylmethyl)-cis-1,3,5-triaminocyclohexanecopper(II) Dichloride," *Polyhedron* **1998**, *17*, 603-606.
409. Zhang, L.; Cava, M. P.; Rogers, R. D.; Rogers, L. M. "Synthesis of a Wakayin Model Compound: Oxidative Formation of a New Pyrrole Ring in the Indol-3-yl-indoloquinone System," *Tetrahedron Lett.* **1998**, *39*, 7677-7678.
410. Bartsch, R. A.; Hwang, H.-S.; Talanov, V. S.; Talanova, G. G.; Purkiss, D. W.; Rogers, R. D. "New Proton-Ionizable Lariat Ethers with Picrylamino-Type Side Arms and Their Alkali Metal Salts. Synthesis and Structural Studies," *J. Org. Chem.* **1999**, *64*, 5341-5349.
411. Bond, A. H.; Chang, F. W. K.; Thakkar, A. H.; Williamson, J. M.; Gula, M. J.; Harvey, J. T.; Griffin, S. T.; Rogers, R. D.; Horwitz, E. P. "Design, Synthesis, and Uptake Performance of ABEC® Resins for the Removal of Pertechnetate from Alkaline Radioactive Wastes," *Ind. Eng. Chem. Res.* **1999**, *38*, 1676-1682.
412. Bond, A. H.; Dietz, M. L.; Rogers, R. D. "Progress in Metal Ion Separation and Preconcentration: An Overview," In *Metal-Ion Separation and Preconcentration, Progress and Opportunities*; Dietz, M. L.; Bond, A. H.; Rogers, R. D., Eds.; ACS Symposium Series 716, American Chemical Society: Washington, DC, 1999; pp 2-12.
413. Bond, A. H.; Gula, M. J.; Harvey, J. T.; Duffey, H. M.; Horwitz, E. P.; Griffin, S. T.; Rogers, R. D.; Collins, J. L. "Flowsheet Feasibility Studies Using ABEC® Resins for the Removal of Pertechnetate from Nuclear Wastes," *Ind. Eng. Chem. Res.* **1999**, *38*, 1683-1689.
414. Bryan, J. C.; Delmau, L. H.; Hay, B. P.; Nicholas, J. B.; Rogers, L. M.; Rogers, R. D.; Moyer, B. A. "Cesium Recognition by Supramolecular Assemblies of 2-Benzylphenol and 2-Benzylphenolate," *Structural Chem.* **1999**, *10*, 187-203.
415. Clark, D. L.; Conradson, S. D.; Donohoe, R. J.; Keogh, D. W.; Morris, D. E.; Palmer, P. D.; Rogers, R. D.; Tait, C. D. "Chemical Speciation of the Uranyl Ion under Highly Alkaline Conditions. Synthesis, Structures, and Oxo Ligand Exchange Dynamics," *Inorg. Chem.* **1999**, *38*, 1456-1466.
416. del Mar Conejo, M.; Parry, J. S.; Carmona, E.; Schultz, M.; Brennann, J. G.; Beshouri, S. M.; Andersen, R. A.; Rogers, R. D.; Coles, S.; Hursthouse, M. "Carbon Monoxide and Isocyanide Complexes of Trivalent Uranium Metallocenes," *Chem. Eur. J.* **1999**, *5*, 3000-3009.
417. Gilbert, T. M.; Bauer, C. B.; Bond, A. H.; Rogers, R. D. "Structures of Homoleptic Triply Bonded $M_2(OR)_6$ Compounds where the Alkoxide is Tertiary: The Effect of Steric Bulk and Alkoxide Conformation on Structural Parameters," *Polyhedron.* **1999**, *18*, 1293-1301.
418. Gilbert, T. M.; Bauer, C. B.; Bond, A. H.; Rogers, R. D. "Syntheses and Structures of Metal-Metal Triply Bonded M_2R_6 Compounds: Consideration of Starting Materials, Stability, and Structural Parameters," *Polyhedron* **1999**, *18*, 1303-1310.
419. Gobley, O.; Gentil, S.; Schloss, J. D.; Rogers, R. D.; Gallucci, J. C.; Meunier, P.; Gautheron, B.; Paquette, L. A. "Magnesiation of Isodicyclopentadiene. Formation of Sandwich and Monomeric Complexes and the Stereoselectivity of Their Reactions with Transition Metal Halides," *Organometallics* **1999**, *18*, 2531-2535.
420. Huddleston, J. G.; Griffin, S. T.; Zhang, J.; Willauer, H. D.; Rogers, R. D. "Metal Ion Separations in Aqueous Biphasic Systems and Using Aqueous Biphasic Extraction Chromatography," In *Metal-Ion Separation and Preconcentration, Progress and Opportunities*; Dietz, M. L.; Bond, A. H.; Rogers, R. D., Eds.; ACS Symposium Series 716, American Chemical Society:

Washington, DC, 1999; pp 79-100.
421. Huddleston, J. G.; Ingenito, C. C.; Rogers, R. D. "Partitioning Behavior of Porphyrin Dyes in Aqueous Biphasic Systems," *Sep. Sci. Technol.* **1999**, *34*, 1091-1101.
422. Huddleston, J. G.; Willauer, H. D.; Griffin, S. T.; Rogers, R. D. "Aqueous Polymeric Solutions as Environmentally Benign Liquid/Liquid Extraction Media," *Ind. Eng. Chem. Res.* **1999**, *38*, 2523-2539.
423. Nowak, I.; Rogers, L. M.; Rogers, R. D.; Thrashe, J. S. "Toward the Synthesis of Novel Fluorinated Building Blocks: 3,4-difluorothiophene-1,1-dioxide," *J. Fluorine Chem.* **1999**, *93*, 27-31.
424. Nowak, I.; Rogers, L. M.; Rogers, R. D.; Thrasher, J. S. "The Effect of Fluorine on the Diastereoselectivity of the Addition of α-Oxyradicals to 3-Fluoro-2,3-dihydro-1H-λ^6-thiophene-1,1-dione," *J. Fluorine Chem.* **1999**, *93*, 73-81.
425. Paquette, L. A.; Edmondson, S. D.; Monck, N.; Rogers, R. D. "Studies Directed toward the Synthesis of the Unusual Antileukemic Diterpene Jatrophatrione. 2. Functionalization of Advanced Polycyclic Precursors to the 9-Epi and 8,9-Dehydro Congeners," *J. Org. Chem.* **1999**, *64*, 3255-3265.
426. Paquette, L. A.; Tae, J.; Hickey, E. R.; Rogers, R. D. "A Belted Monofacial Ionophore Featuring High Selectivity for Lithium Ion Complexation," *Angew. Chem. Int. Ed.* **1999**, *38*, 1409-1411.
427. Rapko, B. M.; McNamara, B. K.; Rogers, R. D.; Lumetta, G. J.; Hay, B. P. "Coordination Chemistry of Lanthanide Nitrates with *N*,*N*,*N'*,*N'*-Tetramethylsuccinamide," *Inorg. Chem.* **1999**, *38*, 4585-4592.
428. Rogers, R. D. "Chemical Crystallography in Crystal Engineering," In *Crystal Engineering: The Design and Application of Functional Solids*; Seddon, K. R.; Zaworotko, M. J. Eds., NATO ASI Series, Kluwer: Dordrecht, 1999; pp 155-189.
429. Rogers, R. D.; Visser, A. E.; Swatloski, R. P.; Hartman, D. H. "Metal Ion Separations in Room Temperature Ionic Liquids: Potential Replacements for Volatile Organic Diluents," In *Metal Separation Technologies Beyond 2000: Integrating Novel Chemistry with Processing*; Liddell, K. C.; Chaiko, D. J., Eds.; The Minerals, Metals & Materials Society: Warrendale, PA, 1999; pp 139-147.
430. Sharma, C. V. K.; Broker, G. A.; Huddleston, J. G.; Baldwin, J. W.; Metzger, R. M.; Rogers, R. D. "Design Strategies for Solid-State Supramolecular Arrays Containing Both Mixed-Metallated and Freebase Porphyrins," *J. Am. Chem. Soc.* **1999**, *121*, 1137-1144.
431. Sharma, C. V. K.; Rogers, R. D. "'Molecular Chinese Blinds': Self-Organization of Tetranitrato Lanthanide Complexes Into Open, Chiral Hydrogen-Bonded Networks," *Chem. Commun.* **1999**, 83-84.
432. Talinova, G. G.; Elkarim, N. S. A.; Hanes, Jr., R. E.; Hwang, H.-S.; Rogers, R. D.; Bartsch, R. A. "Extraction Selectivities of Crown Ethers for Alkali Metal Cations: Differences between Single-Species and Competitive Solvent Extractions," *Anal. Chem.* **1999**, *71*, 672-677.
433. Talinova, G. G.; Elkarim, N. S. A.; Talanov, V. S.; Hanes, Jr., R. E.; Hwang, H.-S.; Bartsch, R. A.; Rogers, R. D. "The 'Picrate Effect' on Extraction Selectivities of Aromatic Group-Containing Crown Ethers for Alkali Metal Cations," *J. Am. Chem. Soc.* **1999**, *121*, 11281-11290.
434. Visser, A. E.; Griffin, S. T.; Ingenito, C. A.; Hartman, D. H.; Huddleston, J. G.; Rogers, R. D. "Aqueous Biphasic Systems as a Novel Environmentally-Benign Separations Technology for Metal Ion Removal," In *Metal Separation Technologies Beyond 2000: Integrating Novel Chemistry with Processing*; Liddell, K. C.; Chaiko, D. J., Eds.; The Minerals, Metals & Materials Society: Warrendale, PA, 1999; pp 119-130.
435. Whitcomb, D. R.; Rogers, R. D. "The Crystal and Molecular Structure of the Tetrameric Methyl-2-mercaptobenzimidazole•AgBr (Acetone Solvate) Complex: Mode of Complex Formation between Silver Bromide and Thione Type Photographic Stabilizers," *J. Imaging Sci. Technol.* **1999**, *43*, 498-502.
436. Whitcomb, D. R.; Rogers, R. D. "Chemistry of Photothermographic Imaging Materials. II," *J. Imaging Sci. Technol.* **1999**, *43*, 517-520.
437. Willauer, H. D.; Huddleston, J. G.; Griffin, S. T.; Rogers, R. D. "Partitioning of Aromatic Molecules in Aqueous Biphasic Systems," *Sep. Sci. Technol.* **1999**, *34*, 1069-1090.
438. Yordanov, A. T.; Gansow, O. A.; Brechbiel, M. W.; Rogers, L. M.; Rogers, R. D. "The Preparation and X-ray Crystallographic Characterization of Lead(II) Calix[4]arenesulfonate Complex," *Polyhedron* **1999**, *18*, 1055-1059.
439. Zhao, H.; Heintz, R. A.; Ouyang, X.; Dunbar, K. R.; Campana, C. F.; Rogers, R. D. "Spectroscopic, Thermal, and Magnetic Properties of Metal/TCNQ Polymers with Extensive Supramolecular Interactions bewteen Layers," *Chem. Mater.* **1999**, *11*, 736-746.
440. Zucchi, Z.; Scopelliti, R.; Pittet, P.-A.; Bünzli, J.-C. G.; Rogers, R. D. "Structural and Photophysical Behavior of Lanthanide Complexes with a Tetraazacyclododecane Featuring Carbamoyl Pendant Arms," *J. Chem. Soc., Dalton Trans.* **1999**, 931-938.
441. Adams, R. D.; Perrin, J. L.; Queisser, J. A.; Rogers, R. D. "Synthesis and Structural Characterization of Chiral Thiacrowns: The Crystal and Molecular Structure of (*R,R,R*)-2,6,10-Trimethyl-1,5,9-trithiacyclododecane," *J. Organomet. Chem.* **2000**, *596*, 115-120.
442. Blair, E.; Nikles, J. A.; Nikles, D. E.; Rogers, L. M.; Rogers, R. D.; Stabler, D.; Street, S. C. "Molecular Structure of the Amine-Quinone Model Compound, 2,4-Bis(dimethylamino)-1,4-benzoquinone," *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)* **2000**, *41*, 317-318.
443. Blais, M. S.; Rogers, R. D.; Rausch, M. D. "Synthesis, Reactions and Structure of Bromo(η^5-diphenylphosphinocyclopentadienyl)nickel(II) Dimer," *J. Organomet. Chem.* **2000**, *593-594*, 142-146.
444. Bond, A. H.; Dietz, M. L.; Rogers, R. D. "Nuclear Separations for Radiopharmacy: The Need for Improved Separations to Meet Future Research and Clinical Demands," *Ind. Eng. Chem. Res.* **2000**, *39*, 3130-3134.
445. Hay, B. P.; Dixon, D. A.; Lumetta, G. J.; Rapko, B. M.; Roundhill, D. M.; Rogers, R. D.; Hutchinson, J. E.; Paine, R. T.;

Raymond, K. N. "Architectural Design Criteria for f-Block Metal Ion Sequestering Agents Final Report," Report PNNL-13221, Pacific Northwest National Laboratory: Richland, WA, 2000; 32 pp.
446. Huddleston, J. G.; Griffin, S. T.; Zhang, J.; Willauer, H. D.; Rogers, R. D. "Metal Ion Separations in Aqueous Biphasic Systems and with ABEC™ Resins," In *Aqueous Two-Phase Systems: Methods and Protocols*; Hatti-Kaul, R., Ed.; In *Methods in Biotechnology*, Vol. 11; Walker, J. M., Ed.; Humana Press, Totowa, NJ, 2000, pp 77-94.
447. Huddleston, J. G.; Willauer, H. W.; Rogers, R. D. "Solvatochromic Studies in Polyethylene Glycol-Salt Aqueous Biphasic Systems," *J. Chromatogr. B: Biomed. Sci. Appl.* **2000**, *743*, 137-149.
448. Jensen, M. P.; Beitz, J. V.; Rogers, R. D.; Nash, K. L. "Thermodynamics and Hydration of the Europium Complexes of a Nitrogen Heterocycle Methane-1,1-Diphosphonic Acid," *J. Chem. Soc., Dalton Trans.* **2000**, 3058-3064.
449. Lumetta, G. J.; McNamara, B. K.; Rapko, B. M.; Sell, R. L.; Rogers, R. D.; Broker, G.; Hutchison, J. E. "Synthesis and characterization of mono- and bis-(tetraalkylmalonamide)uranium(VI) complexes," *Inorg. Chim. Acta* **2000**, *309*, 103-108.
450. Paquette, L. A.; Ohmori, N.; Lowinger, T. B.; Rogers, R. D. "Vicinal Tetrahydrofuranyl Substitution of Alkyl Chains. Tetra-, Penta-, and Hexafunctionalized Arrays," *J. Org. Chem.* **2000**, *65*, 4303-4308.
451. Paquette, L. A.; Tae, J.; Hickey, E. R.; Trego, W. E.; Rogers, R. D. "Preorganized ligand arrays based on spirotetrahydrofuranyl motifs. Synthesis of the stereoisomeric 1,8,14-trioxatrispiro[4.1.4.1.4.1]octadecanes and the contrasting conformational features and ionic binding capacities of these belted ionophores," *J. Org. Chem*. **2000**, *65*, 9160-9171.
452. Park, G.; Ye, N.; Rogers, R. D.; Brechbiel, M. W.; Planalp, R. P. "Effect of Metal Size on Coordination Geometry of *N,N′,N″*-tris(2-pyridylmethyl)-*cis,cis*-1,3,5-triaminocyclohexane: Synthesis and Structure of $[M^{II}L](ClO_4)_2$ (M = Zn, Cd and Hg)," *Polyhedron* **2000**, *19*, 1155-1161.
453. Rapko, B. M.; McNamara, B. K.; Rogers, R. D.; Broker, G. A.; Lumetta, G. J.; Hay, B. P. "Coordination Chemistry of Lanthanide Triflates and Perchlorates with *N*,*N*,*N′*,*N′*-Tetramethylsuccinamide," *Inorg. Chem.* **2000**, *39*, 4858-4867.
454. Rogers, R. D.; Reichert, W. M.; Klingshirn, M. A.; Visser, A. E.; Spear, S. K. "Vision 2020: How Green Chemistry Can Shape the Future of the Sugar Processing Industry," In *Proceedings SPRI 2000 Conference on Sugar Processing Research, April 9-12, 2000, Porto, Portugal*, Godshall, M. A., Ed; Sugar Processing Research Institute, Inc., New Orleans, LA, 2000; pp 20-40.
455. Sharma, C. V. K.; Broker, G. A.; Szulczewski, G. J.; Rogers, R. D. "Self-Assembly of Freebase- and Metalated-Tetrapyridylporphyrins to Modified Gold Surfaces. *Chem. Commun*. **2000**, 1023-1024.
456. Sharma, C. V. K.; Broker, G. A.; Rogers, R. D. "Polymorphous One-Dimensional Tetrapyridylporphyrin Coordination Polymers Which Structurally Mimic Aryl Stacking Interactions," *J. Solid State Chem.* **2000**, *152*, 253-260.
457. Spear, S. K.; Griffin, S. T.; Huddleston, J. G.; Rogers, R. D. "Radiopharmaceutical and Hydrometallurgical Separations of Perrhenate Using Aqueous Biphasic Systems and the Analogous Aqueous Biphasic Extraction Chromatographic Resins," *Ind. Eng. Chem. Res.* **2000**, *39*, 3173-3180.
458. Tae, J.; Rogers, R. D.; Paquette, L. A. "Lithium Ion-Selective Binding Properties of a Conformationally Constrained Tris(spirotetrahydrofuran) Secured to an Inositol Orthoformate Platform," *Org. Lett.* **2000**, *2*, 139-142.
459. Visser, A. E.; Griffin, S. T.; Hartman, D. H.; Rogers, R. D. "Napthol- and Resorcinol-Based Azo Dyes as Metal Ion Complexants in Aqueous Biphasic Systems," *J. Chromatogr. B: Biomed. Sci. Appl.* **2000**, *743*, 107-114.
460. Visser, A. E.; Swatloski, R. P.; Hartman, D. H.; Huddleston, J. G.; Rogers, R. D. "Calixarenes as Ligands in Environmentally-Benign Liquid/Liquid Extraction Media, Aqueous Biphasic Systems and Room Temperature Ionic Liquids," In *Calixarenes for Separations*; Lumetta, G. J.; Rogers, R. D.; Gopalan, A. S., Eds.; ACS Symposium Series 757, American Chemical Society: Washington, DC, 2000; pp 223-236.
461. Visser, A. E.; Swatloski, R. P.; Reichert, W. M.; Griffin, S. T.; Rogers, R. D. "Traditional Extractants in Nontraditional Solvents: Groups 1 and 2 Extraction by Crown Ethers in Room-Temperature Ionic Liquids," *Ind. Eng. Chem. Res.* **2000**, *39*, 3596-3604.
462. Visser, A. E.; Swatloski, R. P.; Rogers, R. D. "pH-Dependent Partitioning in Room Temperature Ionic Liquids Provides a Link to Traditional Solvent Extraction Behavior," *Green Chem.* **2000**, *2*, 1-4.
463. Willauer, H. D.; Huddleston, J. G.; Li, M.; Rogers, R. D. "Investigation of Aqueous Biphasic Systems for the Separations of Lignins from Cellulose in the paper Pulping Process," *J. Chromatogr. B: Biomed. Sci. Appl.* **2000**, *743*, 127-135.
464. Wu, B.; Reddy, R. G.; Rogers, R. D. "Aluminum recycling via near room temperature electrolysis in ionic liquids," In *Int. Symp. Recycl. Met. Eng. Mater., Proc., 4th*; Stewart, D. L., Jr.; Daley, J. C.; Stephens, R. L., Eds.; The Minerals, Metals & Materials Society, Warrendale, PA, 2000, pp 845-856.
465. Huddleston, J. G.; Visser, A. E.; Reichert, W. M.; Broker, G. A.; Willauer, H. D.; Rogers, R. D. "Characterization and Comparison of Hydrophobic and Hydrophilic Room Temperature Ionic Liquids Incorporating the Imidazolium Cation," *Green Chem.* **2001**, *3*, 156-164. (Highlighted in Emsley, J. "Ionic Liquids Poised for a Solvent-Free Atmosphere," *Science Watch* September/October 2003, Vol. 14 No. 5 as the 5th most cited paper in Chemistry for the time period March-April 2003. Among the Top Five most accessed papers for *Green Chem.* May 2004. Reported to be the 11th most cited ionic liquids paper by ISI Essential Science Indicators, Special Topics (http://www.esi-topics.com/ionic-liquids/index.html May 2004) with 123 citations at that time. Reported to be the 5th most accessed article in *Green Chemistry* in 2005 and in 2006.)
466. Kus, P.; Dalley, N. K.; Kuo, X.; Rogers, R. D.; Bartsch, R. A. "X-ray structural investigation of 4-phenyl-, 4-(o-Tolyl)-and 4-(2',4',6'-trimethylphenyl)[2.2]paracyclophanes," *Polish J. Chem.* **2001**, *75*, 1351-1360.
467. Li, M.; Willauer, H. W.; Huddleston, J. G.; Rogers, R. D. "Temperature Effects on Polymer-Based Aqueous Biphasic Extraction Technology in the Paper Pulping Process," *Sep. Sci. Technol.* **2001**, *36*, 835-847.
468. Luo, H.; Eberly, N.; Rogers, R. D.; Brechbiel, M. W. "Syntheses and Characterizations of Metal Complexes Derived from *cis,cis*-1,3,5-Triaminocyclohexane-*N,N′,N″*-triacetic Acid," *Inorg. Chem.* **2001**, *40*, 493-498.
469. Luo, H.; Rogers, R. D.; Brechbiel, M. W. „A convenient and selective route to a trans-difunctionalized macrocyclic hexadentate

N_4O_2 ligand," *Can. J. Chem.*, **2001**, *79*, 1105-1109.
470. Park, G.; Dadachova, E.; Przyborowska, A.; Lai, S.; Ma, D.; Broker, G.; Rogers, R. D.; Planalp, R. P.; Brechbiel, M. W. "Synthesis of novel 1,3,5-*cis,cis*-triaminocyclohexane ligand based Cu(II) complexes as potential radiopharmaceuticals and correlation of structure and serum stability," *Polyhedron* **2001**, *20*, 3155-3163.
471. Park, G.; Shao, J.; Lu, F. H.; Rogers, R. D.; Chasteen, N. D.; Brechbiel, M. W.; Planalp, R. P. "Copper(II) Complexes of Novel N-Alkylated Derivatives of *cis,cis*-1,3,5-Triaminocyclohexane. 1. Preparation and Structure," *Inorg. Chem.* **2001**, *40*, 4167-4175.
472. Rogers, R. D.; Spear, S. K.; Swatloski, R. P.; Reichert, W. M.; Godshall, M. A.; Johnson, T. P.; Moens, L. "Non-sugar products from sugarcane for the new millennium: green pathways to a carbohydrate-economy?" *Publ. Tech. Pap. Proc. Annu. Meet. Sugar Ind. Technol. (May 6-9, 2001, Taipei, Taiwan)* **2001**, *60*, 291-301.
473. Spear, S. K.; Visser, A. E.; Willauer, H. W.; Swatloski, R. P.; Griffin, S. T.; Huddleston, J. G.; Rogers, R. D. "Green Separations Science & Technology: Replacement of Volatile Organic Compounds in Industrial Scale Liquid-Liquid or Chromatographic Separations," In *Green Engineering*; Anastas, P. T.; Heine, L. G.; Williamson, T. C., Eds.; ACS Symposium Series 766, American Chemical Society: Washington, DC, 2001; pp 206-221.
474. Swatloski, R. P.; Visser, A. E.; Reichert, W. M.; Broker, G. A.; Farina, L. M.; Holbrey, J. D.; Rogers, R. D. "Solvation of 1-butyl-3-methylimidazolium hexafluorophosphate in aqueous ethanol-a green solution for dissolving 'hydrophobic' ionic liquids," *Chem. Commun*. **2001**, 2070-2071. (Highlighted in "'Green' solution for ionic liquids," *Chemical & Engineering News*, October 22, 2001, p 50.)
475. Visser, A. E.; Holbrey, J. D.; Rogers, R. D. "Hydrophobic ionic liquids incorporating N-alkylisoquinolinium cations and their utilization in liquid-liquid separations," *Chem. Commun*. **2001**, 2484-2485.
476. Visser, A. E.; Swatloski, R. P.; Griffin, S. T.; Hartman, D. H.; Rogers, R. D. "Liquid/Liquid Extraction of Metal Ions in Room Temperature Ionic Liquids," *Sep. Sci. Technol.* **2001**, *36*, 785-804.
477. Visser, A. E.; Swatloski, R. P.; Reichert, W. M.; Mayton, R.; Sheff, S.; Wierzbicki, A.; Davis, Jr. J. H.; Rogers, R. D. "Task-Specific Ionic Liquids for the Extraction of Metal Ions from Aqueous Solutions," *Chem. Commun.* **2001**, 135-136. (Highlighted in Beard, J. "What's Wet and Green?," *The Alchemist*, January 26, 2001, URL: http://www.chemweb.com/alchem/2001/news/nw_010126_ionic.html; last accessed January 30, 2001.)
478. Wu, B.; Reddy, R. G.; Rogers, R. D. "Aluminum reduction via near room temperature electrolysis in ionic liquids," *Light Metals (Proceedings of the Technical Sessions Presented by the TMS Aluminum Committee at the 130th TMS Annual Meeting, New Orleans, LA, February 11-15, 2000*) The Minerals, Metals & Materials Society, Warrendale, PA, 2001; pp 237-243.
479. Wu, B.; Reddy, R. G.; Rogers, R. D. "Novel Ionic Liquid Thermal Storage for Solar Thermal Electric Power Systems," *Proceedings of Solar Forum 2001: Solar Energy: The Power to Choose, April 21-25, 2001, Washington, DC* ASME, Washington, DC, 2001.
480. Amaresh, R. R.; Lakshmikantham, M. V.; Baldwin, J. W.; Cava, M. P.; Metzger, R. M.; Rogers, R. D. "Condensed Thiophenes and Selenophenes: Thionyl Chloride and Selenium Oxychloride as Sulfur and Selenium Transfer Reagents," *J. Org. Chem.* **2002**, *67*, 2453-2458.
481. Broker, G. A.; Klingshirn, M. A.; Rogers, R. D. "Green Chemistry and Lanthanide-Based Crystal Engineering," *J. Alloys Comp.* **2002**, *344*, 123-127.
482. Chong, H.-s.; Ganguly, B.; Broker, G. A.; Rogers, R. D.; Brechbiel, M. W. "Stereoselective and Regioselective Synthesis of Azepane and Azepine Derivatives via Piperidine Ring Expansion," *J. Chem. Soc. Perkin I* **2002**, 2080-2086.
483. Guo, Z.; Li, M.; Willauer, H. D.; Huddleston, J. G.; April, G. C.; Rogers, R. D. "Evaluation of Polymer-Based Aqueous Biphasic Systems as Improvement for the Hardwood Alkaline Pulping Process," *Ind. Eng. Chem. Res.* **2002**, *41*, 2535-2542.
484. Holbrey, J. D.; Reichert, W. M.; Swatloski, R. P.; Broker, G. A.; Pitner, W. R.; Seddon, K. R.; Rogers, R. D. "Efficient, halide free synthesis of new, low cost ionic liquids: Alkylimidazolium salts containing methyl- and ethyl-sulfate anions" *Green Chem.* **2002**, *4*, 407-413.
485. Holbrey, J. D.; Rogers, R. D. "Green Chemistry and Ionic Liquids - Synergies and Ironies," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp 2-14.
486. Holbrey, J. D.; Rogers, R. D. "Green Industrial Applications of Ionic Liquids: Technology Review," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp 446-458.
487. Holbrey, J. D.; Shaughnessy, K. H.; Klingshirn, M. A.; Broker, G. A.; Rogers, R. D. "Transition Metal Catalyzed CO/Olefin Co-Polymerization in Room Temperature Ionic Liquids," In *Molten Salts XIII: Proceedings of the International Symposium*, Trulove, P. C.; De long, H. C.; Mantz, R. A.; Stafford, G. R.; Matsunaga, M., Eds.; The Electrochemical Society: Pennington, NJ, 2002; Vol. 2002-19, pp 213-223.
488. Hong, K.; Zhang, H.; Mays, J. W.; Visser, A. E.; Brazel, C. S.; Holbrey, J. D.; Reichert, W. M.; Rogers, R. D. "Conventional free radical polymerization in room temperature ionic liquids: A green approach to Commodity Polymers with Practical Advantages," *Chem. Commun*. **2002**, 1368-1369.
489. Huddleston, J. G.; Broker, G. A.; Willauer, H. D.; Rogers, R. D. "Free-Energy Relationships and Solvatochromatic Properties of 1-Alkyl-3-methylimidazolium Ionic Liquids," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp 270-288.
490. Huddleston, J. G.; Willauer, H. D.; Rogers, R. D. "The Solvatochromic Properties, α, β, and π^*, of PEG-Salt Aqueous Biphasic Systems," *Phys. Chem. Chem. Phys.* **2002**, *4*, 4065-4070.
491. Katritzky, A. R.; Jain, R.; Lomaka, A.; Petrukhin, R.; Karelson, M.; Visser, A. E.; Rogers, R. D. "Correlation of the Melting

Points of Potential Ionic Liquids (Imidazolium Bromides and Benzimidazolium Bromides) Using the CODESSA Program," *J. Chem. Inf. Comput. Sci.* **2002**, *42*, 225-231. [*Erratum: J. Chem. Inf. Mod.* **2005**, *45*, 533-534.]
492. Katritzky, A. R.; Lomaka, A.; Petrukhin, R.; Jain, R.; Karelson, M.; Visser, A. E.; Rogers, R. D. "QSPR Correlation of the Melting Point for Pyridinium Bromides, Potential Ionic Liquids," *J. Chem. Inf. Comput. Sci.* **2002**, *42*, 71-74.
493. Klingshirn, M. A.; Broker, G. A.; Holbrey, J. D.; Shaughnessy, K. H.; Rogers, R. D. "Polar, non-coordinating ionic liquids as solvents for alternating copolymerization of styrene and CO catalyzed by cationic palladium catalysts," *Chem. Commun.* **2002**, 1394-1395.
494. Planalp, R. P.; Przyborowska, A. M.; Ye, N.; Ku, F. H.; Rogers, R. D.; Broker, G. A.; Torti S. V.; Brechbiel, M. W. "Novel Cytotoxic Chelators that Bind Iron(II) Selectively over Zinc(II) under Aqueous Aerobic Conditions," *Biochem. Soc. Trans.* **2002**, *30*, 758-762.
495. Royer, A. C.; Rogers, R. D.; Arrington, D. L.; Street, S. C.; Vincent, J. B. "Spectroscopic studies of the dodecanuclear chromium complex $Cr_{12}O_9(OH)_3(pivalate)_{15}$: confirmation of the presence of twelve Cr(III) centers and the crystal structure of $Cr_{12}O_9(OH)_3(pivalate)_{15}\bullet 2PrOH\bullet 9H_2O$," *Polyhedron* **2002**, *21*, 155-165.
496. Scott, M. P.; Brazel, C. S.; Benton, M. G.; Mays, J. W.; Holbrey, J. D.; Rogers, R. D. "Application of ionic liquids as plasticizers for poly(methyl-methacrylate)," *Chem. Commun*. **2002**, 1370-1371.
497. Scovazzo, P.; Visser, A. E.; Davis, Jr., J. H.; Rogers, R. D.; Koval, C. A.; DuBois, D. L.; Noble, R. D. "Supported Ionic Liquid Membranes (SILMs) and Facilitated Ionic Liquid Membranes (FILMs)," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp 69-87.
498. Spear, S. K.; Visser, A. E.; Rogers, R. D. "Ionic Liquids: Green Solvents for Carbohydrate Studies," In *Proceedings of the 2002 Sugar Processing Research Conference, Advances in the Chemistry and Processing of Beet and Cane Sugar, March 10-13, 2002, New Orleans, LA;* Godshall, M. A., Ed; Sugar Processing Research Institute, Inc.: New Orleans, LA, 2002; pp 336-340.
499. Swatloski, R. P.; Holbrey, J. D.; Spear, S. K.; Rogers, R. D. "Ionic Liquids for the Dissolution and Regeneration of Cellulose," In *Molten Salts XIII: Proceedings of the International Symposium*, Trulove, P. C.; De long, H. C.; Mantz, R. A.; Stafford, G. R.; Matsunaga, M., Eds.; The Electrochemical Society: Pennington, NJ, 2002; Vol. 2002-19, pp 155-164.
500. Swatloski, R. P.; Spear, S. K.; Holbrey, J. D.; Rogers, R. D. "Dissolution of Cellose with Ionic Liquids," *J. Am. Chem. Soc.* **2002**, *124*, 4974-4975. (Highlighted in "Ionic Liquids Can Dissolve Cellulose," *Chemical & Engineering News*, April 29, 2002, p 24. Reported to be the 18th most cited ionic liquids paper in the previous two-year period by ISI Essential Science Indicators, Special Topics (http://www.esi-topics.com/ionic-liquids/index.html May 2004) with 22 citations at that time.)
501. Swatloski, R. P.; Visser, A. E.; Reichert, W. M.; Broker, G. A.; Farina, L. M.; Holbrey, J. D.; Rogers, R. D. "On the solubilization of water with ethanol in hydrophobic hexafluorophosphate ionic liquids," *Green Chem.* **2002**, *4*, 81-87.
502. Visser, A. E.; Holbrey, J. D.; Rogers, R. D. "Room temperature ionic liquids as alternatives to traditional organic solvents in solvent extraction," In *ISEC 2002, Proceeding of the International Solvent Extraction Conference Cape Town, South Africa 17 to 21 March 200*; Sole, K. C.; Cole, P. M.; Preston, J. S.; Robinson, D. J., Eds.; Chris van Rensburg Publications, Melville, South Africa, 2002; Vol. 1; pp 474-480.
503. Visser, A. E.; Reichert, W. M.; Swatloski, R. P.; Willauer, H. D.; Huddleston, J. G.; Rogers, R. D. "Characterization of Hydrophilic and Hydrophobic Ionic Liquids: Alternatives to Volatile Organic Compounds for Liquid-Liquid Separations," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp 289-308.
504. Visser, A. E.; Rogers, R. D. "Actinide Chemistry in Novel Solvent Media: Room Temperature Ionic Liquids," In *Molten Salts XIII: Proceedings of the International Symposium*, Trulove, P. C.; De long, H. C.; Mantz, R. A.; Stafford, G. R.; Matsunaga, M., Eds.; The Electrochemical Society: Pennington, NJ, 2002; Vol. 2002-19, pp 516-529.
505. Visser, A. E.; Swatloski, R. P.; Reichert, W. M.; Mayton, R.; Sheff, S. Wierzbicki, A.; Davis, Jr. J. H.; Rogers, R. D. "Task-Specific Ionic Liquids Incorporating Novel Cations for the Coordination and Extraction of Hg^{2+} and Cd^{2+}: Synthesis, Characterization, and Extraction Studies," *Env. Sci. Technol.* **2002**, *36*, 2523-2529.
506. Willauer, H. D.; Huddleston J. G.; Rogers, R. D. "Solute Partitioning in Aqueous Biphasic Systems Composed of Polyethylene Glycol and Salt: The Partitioning of Small Neutral Organic Species," *Ind. Eng. Chem. Res.* **2002**, *41*, 1892-1904.
507. Willauer, H. D.; Huddleston, J. G.; Rogers, R. D. "Solvent Properties of Aqueous Biphasic Systems Composed of Polyethylene Glycol and Salt Characterized by the Free Energy of Transfer of a Methylene Group Between the Phases and by a Linear Solvation Energy Relationship," *Ind. Eng. Chem. Res.* **2002**, *41,* 2591-2601.
508. Yamato, K.; Bartsch, R. A.; Dietz, M. L.; Rogers, R. D. "Improved stereospecific synthesis of the *trans*-isomers of dicyclohexano-18-crown-6 and the solid-state structure of the *trans-syn-trans*-isomer," *Tetrahedron Lett.* **2002**, *43*, 2153-2156.
509. Yamato, K.; Bartsch, R. A.; Dietz, M. L.; Broker, G. A.; Rogers, R. D. "Synthesis of chiral *trans-anti-trans*-isomers of dicyclohexano-18-crown-6 via an enzymatic reaction and the solid-state structure of one enantiomer," *Tetrahedron Lett.* **2002**, *43*, 5805-5808.
510. Zhang, H.; Bu, L.; Li, M.; Hong, K.; Visser, A. E.; Rogers, R. D.; Mays, J. W. "Homopolymerization and Block Copolymer Formation in Room Temperature Ionic Liquids using Conventional Free Radical Initiators," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp 114-124.
511. Abraham, M. H.; Zissimos, A. M.; Huddleston, J. G.; Willauer, H. D.; Rogers, R. D.; Acree, Jr., W. E. "Some Novel Liquid Partitioning Systems: Water-Ionic Liquids and Aqueous Biphasic Systems," *Ind. Eng. Chem. Res.* **2003**, *42*, 413-418.
512. Aqad, E.; Lakshmikantham, M. V.; Cava, M. P.; Broker, G. A.; Rogers, R. D. "Synthesis of Benzo[*c*]selenophene and Derivatives

via New Routes," *Org. Lett.* **2003**, *5*, 2519-2521.
513. Guo, Z.; Huddleston, J. G.; Rogers, R. D.; April, G. C. "Reaction Parameter Effects in Metal-Salt-Catalyzed Aqueous Biphasic Pulping Systems," *Ind. Eng. Chem. Res.* **2003**, *42*, 248-253.
514. Guo, Z.; Li, M.; Willauer, H. D.; Huddleston, J. G.; Rogers, R. D. "PEG-Based Aqueous Biphasic Systems as Improvement for Kraft Hardwood Pulping Process," *Chem. Eng. Commun.* **2003**, *190*, 1155-1169.
515. Gutowski, K. E.; Bridges, N. J.; Cocalia, V. A.; Spear, S. K.; Holbrey, J. D.; Swatloski, R. P.; Davis, J. H., Jr.; Rogers, R. D. "Approaches to Nuclear Separations Using Room Temperature Ionic Liquids," *American Nuclear Society GLOBAL 2003 Winter Meeting Proceedings* **2003**; pp 1604-1608.
516. Gutowski, K. E.; Broker, G. A.; Willauer, H. D.; Huddleston, J. G.; Swatloski, R. P.; Holbrey, J. H. "Controlling the aqueous miscibility of ionic liquids: Aqueous biphasic systems of water-miscible ionic liquids and water-structuring salts for recycle, metathesis, and separations," *J. Am. Chem. Soc.* **2003**, *125*, 6632-6633.
517. Helm, M. L.; Loveday, K. D.; Combs, C. M.; Bentzen, E. L.; VanDerveer, D. G.; Rogers, R. D.; Grant, G. J. "Heavy Metal Complexes of Macrocyclic Thioethers," *J. Chem. Crystallogr*. **2003**, *33* 447-455.
518. Holbrey, J. D.; Reichert, W. M.; Nieuwenhuyzen, M.; Johnson, S.; Seddon, K. R.; Rogers, R. D., "Crystal polymorphism in 1-butyl-3-methylimidazolium halides: supporting ionic liquid formation by inhibition of crystallization," *Chem. Commun*. **2003**, 1636-1637.
519. Holbrey, J. D.; Reichert, W. M.; Nieuwenhuyzen, M.; Sheppard, O.; Hardacre, C.; Rogers, R. D., "Liquid Clathrate Formation in Ionic Liquid/Aromatic Mixtures," *Chem. Commun*. **2003**, 476-477.
520. Holbrey, J. D.; Reichert, W. M.; Reddy, R. G.; Rogers, R. D. "Heat Capacities of Ionic Liquids and Their Applications as Thermal Fluids," In *Ionic Liquids as Green Solvents: Progress and Prospects*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 856; American Chemical Society: Washington DC, 2003; pp 121-133.
521. Holbrey, J. D.; Reichert, W. M.; Tkatchenko, I.; Bouajila, E.; Walter, O.; Tommasi, I.; Rogers, R. D. "1,3-Dimethylimidazolium-2-carboxylate: The Unexpected Synthesis of an Ionic Liquid Precursor and Carbene-CO_2 Adduct," *Chem. Commun*. **2003**, 28-29.
522. Holbrey, J. D.; Rogers, R. D. "Physico-chemical properties of ionic liquids: Melting points and phase diagrams," In *Ionic Liquids in Synthesis*; Wasserscheid, P.; Welton, T., Eds.; Wiley-VCH, Weinheim, **2003**; pp 41-55.
523. Holbrey, J. D.; Turner, M. B.; Rogers, R. D. "Selection of Ionic Liquids for Green Chemical Applications," In *Ionic Liquids as Green Solvents: Progress and Prospects*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 856; American Chemical Society: Washington DC, 2003; pp 2-12.
524. Holbrey, J. D.; Turner, M. B.; Reichert, W. M.; Rogers, R. D. "New ionic liquids containing an appended hydroxyl functionality from the clean, atom-efficient, one-pot reaction of 1-methylimidazole and acid with propylene oxide," *Green Chem*. **2003**, *5*, 731-736.
525. Holbrey, J. D.; Visser, A. E.; Rogers, R. D. "Physico-chemical properties of ionic liquids: Solubility and solvation in ionic liquids," In *Ionic Liquids in Synthesis*; Wasserscheid, P.; Welton, T., Eds.; Wiley-VCH, Weinheim, 2003; pp 68-81.
526. Holbrey, J. D.; Visser, A. E. Spear, S. K.; Reichert, W. M.; Swatloski, R. P.; Broker, G. A.; Rogers, R. D. "Mercury(II) partitioning from aqueous solutions with a new, hydrophobic ethylene-glycol functionalized bis-imidazolium ionic liquid," *Green Chem*. **2003**, *5*, 129-135.
527. Huddleston, J. G.; Looney, T. K.; Broker, G. A.; Griffin, S. T.; Spear, S. K.; Rogers, R. D. "Comparative Behavior of Poly(ethylene glycol) Hydrogels and Poly(ethylene glycol) Aqueous Biphasic Systems," *Ind. Eng. Chem. Res.* **2003**, *42*, 6088-6095.
528. Huddleston, J. G.; Willauer, H. D.; Rogers, R. D. "Phase Diagram Data for Several PEG + Salt Aqueous Biphasic Systems at 25 °C," *J. Chem. Eng. Data* **2003**, *48*, 1230-1236.
529. Park, G.; Przyborowska, A. M.; Ye, N.; Tsoupas, N. M.; Bauer, C. B.; Broker, G. A.; Rogers, R. D.; Brechbiel, M. W.; Planalp, R. P. "Steric effects caused by N-alkylation of the tripodal chelator N, N', N''-tris(2-pyridylmethyl)-*cis,cis*-1,3,5-triaminocyclohexane (tachpyr): structural and electronic properties of the Mn(II), Co(II), Ni(II), Cu(II) and Zn(II) complexes," *J. Chem. Soc., Dalton Trans.* **2003**, 318-324.
530. Rajagopal, D.; Lakshmikantham, M. V.; Cava, M. P.; Broker, M. P.; Rogers, R. D. "Synthesis and Transformations of Some New 2,4-Bismethylene-1,3-ditelluretanes," *Tetrahedron Lett.* **2003**, *44*, 2397-2400.
531. Rogers, R. D.; Seddon, K. R. "Ionic Liquids – Solvents of the Future?" *Science* **2003**, *302*, 792-793.
532. Shaughnessy, K. H.; Klingshirn, M. A.; P'Pool, S. J.; Holbrey, J. D.; Rogers, R. D. "Polar, Non-Coordinating Ionic Liquids as Solvents for Coordination Polymerization of Olefins," In *Ionic Liquids as Green Solvents: Progress and Prospects*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 856; American Chemical Society: Washington DC, 2003; pp 300-313.
533. Swatloski, R. P.; Holbrey, J. D.; Rogers, R. D. "Ionic liquids are not always green: hydrolysis of 1-butyl-3-methylimidazolium hexafluorophosphate," *Green Chem.* **2003**, *5*, 361-363.
534. Turner, M. B.; Spear, S. K.; Huddleston, J. G.; Holbrey, J. D.; Rogers, R. D. "Ionic Liquid-Induced Inactivation and Unfolding of Cellulase from *Trichoderma reesei*, *Green Chem.* **2003**, *5*, 443-447. (Also in *Chemical Biology Virtual Journal*, **2003**, Issue 15: http://www.rsc.org/cgi-shell/empower.exe?DB=rsc-cbvjournal&B=F22003&B=F415&ISSNO=15.)
535. Visser, A. E.; Jensen, M. P.; Laszak, I.; Nash, K. L.; Choppin, G. R.; Rogers, R. D. "Uranyl Coordination Environment in Hydrophobic Ionic Liquids: An in Situ Investigation," *Inorg. Chem*. **2003**, *42*, 2197-2199.
536. Visser, A. E.; Rogers, R. D. "Room Temperature Ionic Liquids: New Solvents for f-Element Separations and Associated Solution Chemistry," *J. Solid State Chem.* **2003**, *171*, 109-113.
537. Visser, A. E.; Swatloski, R. P.; Reichert, W. M.; Willauer, H. D.; Huddleston, J. G.; Rogers, R. D. "Room Temperature Ionic Liquids as Replacements for Traditional Organic Solvents and Their Applications Towards "Green Chemistry" in Separation

Processes," In *Green Industrial Applications of Ionic Liquids*, Rogers, R. D.; Seddon, K. R.; Volkov, S. (Eds.); Kluwer: Dordrecht, 2003; pp 137-156.

538. Burns, C. J.; Neu, M.; Boukhalfa, H.; Gutowski, K. E.; Bridges, N. J.; Rogers, R. D. "The Actinides," in *Comprehensive Coordination Chemistry-II From Biology to Nanotechnology*, McCleverty, J. A.; Meyer, T. J., Eds., Vol. 3 *Coordination Chemistry of the s, p, and f Metals*, Parkin, G. F. R. Ed.; Elsevier Pergamon: Amsterdam, 2004; pp 189-346.
539. Chen, J.; Spear, S. K.; Huddleston, J. G.; Holbrey, J. D.; Rogers, R. D. "Application of polyethylene glycol-based aqueous biphasic reactive extraction to the oxidation of olefins." *J. Chromatogr. B* **2004**, *807*, 145-149.
540. Chen, J.; Spear, S. K.; Huddleston, J. G.; Holbrey, J. D.; Swatloski, R. P.; Rogers, R. D. "Application of poly(ethylene glycol)-based aqueous biphasic systems as reaction and reactive extraction media," *Ind. Eng. Chem. Res.* **2004**, *43*, 5358-5364.
541. Gilbert, T. M.; Littrell, J. C.; Talley, C. E.; Vance, M. A.; Dallinger, R. F.; Rogers, R. D. "Experimental and Computational Studies of the Metal-Metal Stretching Vibration in $X_3M{\equiv}MX_3$ Compounds (X = Alkoxide, Alkyl, Amide)," *Inorg. Chem.* **2004**, *43*, 1762-1769.
542. Griffin, S. T.; Spear, S. K.; Rogers, R. D. "Effects of speciation on partitioning of iodine in aqueous biphasic systems and onto ABEC® resins," *J. Chromatogr. B* **2004**, *807*, 151-156.
543. Holbrey, J. D.; Reichert, W. M.; Rogers. R. D. "Crystal structures of imidazolium bis(trifluoromethanesulfonyl)imide 'ionic liquid' salts: The first organic salt with a cis-TFSI anion conformation," *J. Chem. Soc., Dalton Trans.* **2004**, 2267-2271.
544. Huddleston, J. G.; Willauer, H. D.; Burney, M. T.; Tate, L. J.; Carruth, A. D.; Rogers, R. D. "Comparison of an Empirical and a Theoretical Linear Solvation Energy Relationship Applied to the Characterization of Solute Distribution in a Poly(ethylene) Glycol-Salt Aqueous Biphasic System," *J. Chem. Inf. Comput. Sci.* **2004**, *44*, 549-558.
545. Katritzky, A. R.; Tämm, K.; Kuanar, M.; Fara, D. C.; Oliferenko, A.; Oliferenko, P.; Huddleston, J. G.; Rogers, R. D. "Aqueous Biphasic Systems. Partitioning of Organic Molecules: a QSPR Treatment," *J. Chem. Inf. Comput. Sci.* **2004**, *44*, 136-142.
546. Klingshirn, M. A.; Spear, S. K.; Subramanian, R.; Holbrey, J. D.; Huddleston, J. G.; Rogers, R. D. "Gellation of ionic liquids using a cross-linked poly(ethylene glycol) gel matrix," *Chem. Mater.* **2004**, *16*, 3091-3097.
547. Luo, H.; Dai, S.; Bonnesen, P. V.; Buchanan, A. C.; Holbrey, J. D.; Bridges, N. J.; Rogers, R. D. "Extraction of Cesium Ions from Aqueous Solutions Using Calix[4]arene-bis(tert-octylbenzo-crown-6) in Ionic Liquids," *Anal. Chem.* **2004**, 76, 3078-3083.
548. Oliferenko, A. A.; Oliferenko, P. V.; Huddleston, J. G.; Rogers, R. D.; Palyulin, V. A.; Zefirov, N. S.; Katritzky, A. R. "Theoretical Scales of Hydrogen Bond Acidity and Basicity for Application in QSAR/QSPR Studies and Drug Design. Partitioning of Aliphatic Compounds," *J. Chem. Inf. Comput. Sci.* **2004**, *44*, 1042-1055.
549. Spear, S. K.; Holbrey, J. D.; Rogers, R. D. "Liquid Clathrates," In *Encyclopedia of Supramolecular Chemistry*, Atwood, J. L.; Steed, J. W. (Eds.); Marcel Dekker: New York, 2004; pp 804-808.
550. Swatloski, R. P.; Holbrey, J. D.; Memon, S. B.; Caldwell, G. A.; Caldwell, K. A.; Rogers, R. D. "Using *Caenorhabditis elegans* to probe toxicity of 1-alkyl-3-methylimidazolium chloride based ionic liquids," *Chem. Commun.* **2004**, 668-669.
551. Turner, M. B.; Holbrey, J. D.; Spear, S. K.; Rogers, R. D. "Production of bioactive cellulose films reconstituted from ionic liquids," *Biomacromolecules* **2004**, *5*, 1379-1384.
552. Wang, W.; Shen, G.; Swatloski, R. P.; Farag, R.; Broughton, Jr., R. M.; Rogers, R. D. "Cellulose Fibers Extruded from Ionic Liquids," In *Proceedings of the International Nonwovens Technical Conference, Toronto Canada, September 20-23, 2004*, INDA, Association of the Nonwoven Fabrics Industry: Cary, NC, 2004.
553. Ye, N.; Park, G.; Przyborowska, A. M.; Sloan, P. E.; Clifford, T.; Bauer, C. B.; Broker, G. A.; Rogers, R. D.; Ma, R.; Torti, S. V.; Brechbiel, M. W.; Planalp, R. P., "Nickel(II), copper(II) and zinc(II) binding properties and cytotoxicity of tripodal, hexadentate tris(ethylenediamine)– analogue chelators," *Dalton Trans.* **2004**, 1304-1311. (Among the Top Ten accessed papers for *Dalton Trans.* June 2004.)
554. Chen, J.; Spear, S. K.; Huddleston, J. G.; Rogers, R. D. "Polyethylene glycol and solutions of polyethylene glycol as green reaction media," *Green Chem.* **2005**, *7*, 64-82. [This was the cover article for this issue of *Green Chemistry*. Reported to be the 10th most accessed article in *Green Chemistry* in 2006.]
555. Childers, M. L.; Su, F.; Przyborowska, A. M.; Bishwokarma, B.; Park, G.; Brechbiel, M. W.; Torti, S. V.; Torti, F. M.; Broker, G.; Alexander, J. S.; Rogers, R. D.; Ruhlandt-Senge, K.; Planalp, R. P. "Pyridine-ring alkylation of cytotoxic *N, N′, N″*-tris(2-pyridylmethyl)-*cis,cis*-1,3,5-triaminocyclohexane chelators: Structural and electronic properties of the Mn^{II}, Fe^{II}, Ni^{II}, Cu^{II} and Zn^{II} complexes," *Eur. J. Inorg. Chem.* **2005**, *19*, 3971-3982.
556. Clapp, L. A.; Siddons, C. J.; Whitehead, J. R.; VanDerveer, D. J.; Rogers, R. D.; Griffin, S. T.; Jones, S. B.; Hancock, R. D. "Factors Controlling Metal-Ion Selectivity in the Binding Sites of Calcium-Binding Proteins. The Metal Binding Properties of Amide Donors. A Crystallographic and Thermodynamic Study," *Inorg. Chem.* **2005**, *44*, 8495-8502.
557. Cocalia, V. A.; Holbrey, J. D.; Gutowski, K. E.; Bridges, N. J.; Rogers; R. D. "Separations of Metal Ions Using Ionic Liquids: The Challenges of Multiple Mechanisms," In *Proceedings of the International Solvent Extraction Conference, Solvent Extraction for Sustainable Development (ISEC 2005) Beijing, China 19-23 September 2005*; China Academic Journal Electronic Publishing House; Beijing, 2005; pp 39-46.
558. Cocalia, V. A.; Jensen, M. P.; Holbrey, J. D.; Spear, S. K.; Rogers, R. D. "Identical Extraction Behavior and Coordination of Trivalent and Hexavalent f-Element Cations Using Ionic Liquid and Molecular Solvents," *Dalton Trans.* **2005**, 1966-1971.
559. DeVasher, R. B.; Spruell, J. M.; Dixon, D. A.; Broker, G. A.; Griffin, S. T.; Rogers, R. D.; Shaughnessy, K. H. "Experimental and Computational Study of Steric and Electrnic Effects n the Coordination of Bulky, Water-Soluble Alkylphosphines to Palladium under Reducing Conditions: Correlation to Catalytic Activity," *Organometallics* **2005**, *245*, 962-971.
560. Elshani, S.; Wai, C. M.; Shreeve, J. M.; Rogers, R. D.; Bartsch, R. A. "Synthesis of Proton-Ionizable Acyclic, Macrocyclic and Macrobicyclic Compounds Containing One or Two Triazole Groups," *J. Heterocyclic Chem.* **2005**, *42*, 621-629.

561. Fox, P. A.; Griffin, S. T.; Reichert, W. M.; Salter, E. A.; Smith, A. B.; Tickell, M. D.; Wicker, B. F.; Cioffi, E. A.; Davis, Jr. J. H.; Rogers, R. D.; Wierzbicki, A. "Exploiting isolobal relationships to create new ionic liquids: Novel room-temperature ionic liquids based upon (*N*-alkylimidazole)(amine)BH_2^+ "boronium" ions," *Chem. Commun.* **2005**, 3679-3681.
562. Gutowski, K. E.; Holbrey, J. D.; Rogers, R. D.; Dixon, D. A. "Prediction of the Formation and Stabilities of Energetic Salts and Ionic Liquids Based on ab Initio Electronic Structure Calculations," *J. Chem. Phys. B* **2005**, *109*, 23196-23208.
563. Gutowski, K. E.; Bridges, N. J.; Cocalia, V. A.; Spear, S. K.; Visser, A. E.; Holbrey, J. D.; Davis, Jr., J. H.; Rogers, R. D. "Ionic Liquid Technologies for Utilization in Nuclear-Based Separations," In *Ionic Liquids IIIB: Fundamentals, Progress, Challenges, and Opportunities - Transformations and Processes*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 902; American Chemical Society: Washington DC, 2005; pp 33-48.
564. Haque, A.; Daly, D. T.; Rogers, R. D.; Mobley, C.; Swatloski, R. P. "Effects of MAPP as Coupling Agent on the Performance of Cellulose/Polypropylene Laminated Composites," In *Proceedings of the 3rd International Conference on Eco-Composites*, Royal Institute of Technology, Stockholm, Sweden, June 20-21, 2005.
565. Holbrey, J. D.; Chen, J.; Turner, M. B.; Swatloski, R. P.; Spear, S. K.; Rogers, R. D., "Applying Ionic Liquids for Controlled Processing of Polymer Materials," In *Ionic Liquids in Polymer Systems: Solvents, Additives, and Novel Applications*, Brazel, C. S.; Rogers, R. D. (Eds.); ACS Symposium Series 913; American Chemical Society: Washington DC, 2005; pp 71-87.
566. Katritzky, A. R.; Singh, S.; Kirichenko, K.; Holbrey, J. D.; Smiglak, M.; Reichert, W. M.; Rogers, R. D. "1-Butyl-3-methylimidazolium 3,5-dinitro-1,2,4-triazolate: A novel ionic liquid containing a rigid, planar energetic anion," *Chem. Commun.* **2005**, 868-870. (Among the Top Five most accessed papers for *Chem. Commun.* February 2005.)
567. Klingshirn, M. A.; Rogers, R. D.; Shaughnessy, K. H., "Palladium-catalyzed hydroesterification of styrene derivatives in the presence of ionic liquids," *J. Organomet. Chem.* **2005**, *690*, 3620-3626.
568. Klingshirn, M. A.; Spear, S. K.; Holbrey, J. D.; Huddleston, J. G.; Rogers, R. D. "Synthesis, Characterization, and Application of Cross-Linked Poly(ethylene glycol) Networks Used for Gelation of Ionic Liquids," In *Ionic Liquids in Polymer Systems: Solvents, Additives, and Novel Applications*, Brazel, C. S.; Rogers, R. D. (Eds.); ACS Symposium Series 913; American Chemical Society: Washington DC, 2005; pp 149-162.
569. Klingshirn, M. A.; Spear, S. K.; Holbrey, J. D.; Rogers, R. D. "Ionic liquids as solvent and solvent additives for the synthesis of sol-gel materials," *J. Mater. Chem*. **2005**, *15*, 5174-5180.
570. Mobley, C.; Ramasetty, A.; Haque, A.; Poplin, J. H.; Daly, D. T.; Rogers, R. D. "Affordable Bio-polymer Matrix Composites for Lightweight Automotive Components," In *Proceedings of the Sixth Annual Global Automotive Conference*, Western Kentucky University, Bowling Green, KY, April 6-8, 2005.
571. Moody, M. L.; Willauer, H. D.; Griffin, S. T.; Huddleston, J. G.; Rogers, R. D. "Solvent Property Characterization of Poly(ethylene glycol)/Dextran Aqueous Biphasic Systems Using the Free Energy of Transfer of a Methylene Group and a Linear Solvation Energy Relationship," *Ind. Eng. Chem. Res.* **2005**, *44*, 3749-3760.
572. Moulthrop, J. S.; Swatloski, R. P.; Moyna, G.; Rogers, R. D. "High-resolution ^{13}C NMR studies of cellulose and cellulose oligomers in ionic liquid solutions," *Chem. Commun.* **2005**, 1557-1559.
573. P'Pool, S. J.; Klingshirn, M. A.; Rogers, R. D.; Shaughnessy, K. H. "Kinetic Study of the Oxidative Addition of Methyl Iodide to Vaska's Complex in Ionic Liquids," *J. Organomet. Chem.* **2005**, *690*, 3522-3528.
574. Sliger, M. D.; Broker, G. A.; Griffin, S. T.; Rogers, R. D.; Shaughnessy, K. H. "Di-*t*-butyl(ferrocenylphosphine: Air-Stability, Structural Characterization, Coordination Chemistry, and Applications to Palladium-Catalyzed Cross-Coupling Reactions," *J. Organomet. Chem.* **2005**, *690*, 1478-1486.
575. Sliger, M. D.; P'Pool, S. J.; Traylor, R. K.; McNeill III, J.; Young, S. H.; Hoffman, N. W.; Klingshirn, M. A.; Rogers, R. D.; Shaughnessy, K. H. "Promoting Effect of Ionic Liquids on Ligand Substitution Reactions," *J. Organomet. Chem.* **2005**, *690*, 3540-3545.
576. Turner, M. B.; Holbrey, J. D; Spear, S. K.; Pusey, M. L.; Rogers, R. D. "Effects of Oxygen-Containing Functional Groups on Protein Stability in Ionic Liquid Solutions," In *Ionic Liquids IIIB: Fundamentals, Progress, Challenges, and Opportunities - Transformations and Processes*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 902; American Chemical Society: Washington DC, 2005; pp 233-243.
577. Turner, M. B.; Spear, S. K.; Holbrey, J. D.; Daly, D. T.; Rogers, R. D. "Ionic liquid-reconstituted cellulose composites as solid support matrices for biocatalyst immobilization," *Biomacromolecules* **2005**, *6*, 2497-2502.
578. Broughton, R.; Wang, W.; Shen, G.; Farag, R.; Swatloski, R. P.; Rogers, R. D. "Keynote Address: New Solvent for Cellulose Extrusion," In *Proceedings Beltwide Cotton Conferences,* National Cotton Council: Memphis, TN, 2005, pp 3291/1-3291/5 (ISSN: 1059-2644).
579. Cocalia, V. A.; Gutowski, K. E.; Rogers, R. D. **"**The coordination chemistry of actinides in ionic liquids: A review of experiment and simulation," *Coord. Chem. Rev.* **2006**, *250*, 755-764.
580. Cocalia, V. A.; Holbrey, J. D.; Gutowski, K. E.; Bridges, N. J.; Rogers; R. D. "Separations of Metal Ions Using Ionic Liquids: The Challenges of Multiple Mechanisms," *Tsinghua Sci. Technol.* **2006**, *11*, 188-193.
581. Cocalia, V. A.; Holbrey, J. D.; Spear, S. K.; Jensen, M. P.; Rogers, R. D. "Partitioning of Transuranic Metal Ions to Ionic Liquids Containing the Ionizable Complexant Cyanex-272," In *Molten Salts XIV: Proceedings of the International Symposium*, Trulove, P. C.; De long, H. C.; Mantz, R. A.; Stafford, G. R.; Matsunaga, M., Eds.; The Electrochemical Society: Pennington, NJ, 2006; Vol. PV 2004-24; pp 779-789.
582. Drab, D. M.; Smiglak, M.; Rogers, R. D. "Should the Concepts of Green Chemistry be Restrictive or Prescriptive? The Greener Synthesis of High-Performance, Energetic Ionic Liquid Materials" *Chimica Oggi/CHEMISTRY TODAY* **2006**, *24*, 27-30.
583. Fort, D. A.; Swatloski, R. P.; Moyna, P.; Rogers, R. D.; Moyna, G. "Use of Ionic Liquids in the Study of Fruit Ripening by High-

Resolution ^{13}C NMR Spectroscopy: 'Green' Solvents Meet Green Bananas," *Chem. Commun.* **2006**, 714-716. (Highlighted as a Hot Article by *Chem. Commun.* January 16, 2006, URL: http://www.rsc.org/Publishing/Journals/cc/index.asp; last accessed January 19, 2006; Highlighted in Ritter, S. "Ionic liquids go bananas," *Chemical & Engineering News*, February 6, 2006, p. 48; Listed as a 'Top Ten' accessed article by *Chem. Commun.* for the month of January 2006 at http://www.rsc.org/chemcomm; Highlighted in Lavender, R. "Following the ripening of bananas," *Chemical Science* (an RSC web supplement) February 23, 2006 at URL: http://www.rsc.org/Publishing/ChemScience/Volume/2006/03/ripening_of_bananas.asp; last accessed April 17, 2006.)

584. Griffin, S. T.; Dilip, M.; Spear, S. K.; Huddleston, J. G.; Rogers, R. D. "The Opposite Effect of Temperature on Polyethylene Glycol-Based Aqueous Biphasic Systems versus Aqueous Biphasic Extraction Chromatographic Resins," *J. Chromatogr. B* **2006**, *844*, 23-31.
585. Gutowski, K. E.; Bridges, N. J.; Rogers, R. D. "Actinide Structural Chemistry," In *The Chemistry of the Actinide and Transactinide Elements*, 3rd Edition. Morss, L. R.; Edelstein, N.; Fuger, J.; Katz, J. K., Eds., Springer: Dordrecht, 2006; Vol. 4 pp 2380-2523.
586. Gutowski, K. E.; Rogers, R. D.; Dixon, D. A. "Accurate Thermochemical Properties for Energetic Materials Applications. I. Heats of Formation of Nitrogen-Containing Heterocycles and Energetic Precursor Molecules from Electronic Structure Theory," *J. Chem. Phys. A* **2006**, *110*, 11890-11897.
587. Haque, A.; Mobley, C.; Daly, D. T.; Rogers, R. D.; Swatloski, R. P.; Ramasetty, A. "Effects of MAPP as coupling agent on the performance of regenerated cellulose film reinforced polypropylene composites," *Proceedings of the American Society for Composites, Technical Conference* **2006**, *21st*, 272/1-272/15.
588. Hines, C. C.; Reichert, W. M.; Griffin, S. T.; Bond, A. H.; Snowwhite, P. E.; Rogers, R. D. "Exploring Control of Cadmium Halide Coordination Polymers via Control of Cadmium(II) Coordination Sites Utilizing Short Multidentate Ligands," *J. Mol. Struct.* **2006**, *796*, 76-85.
589. Holbrey, J. D.; Reichert, W. M.; Smiglak, M.; Spear, S. K.; Yang, H.; Manju, K.; Kirichenko, K.; Katritzky, A. R.; Thrasher, J. S.; Sun, L. Y.; Rogers, R. D. "Stability and Thermal Decomposition of Quaternary and Protonated Imidazolium Nitrate and Picrate Salts," In *Molten Salts XIV: Proceedings of the International Symposium*, Trulove, P. C.; De long, H. C.; Mantz, R. A.; Stafford, G. R.; Matsunaga, M., Eds.; The Electrochemical Society: Pennington, NJ, 2006; Vol. PV 2004-24; pp 396-406.
590. Holbrey, J. D.; Vigour, K. B.; Reichert, W. M.; Rogers, R. D. "The structure of $[Co(H\text{-}tptz)Cl_3]\cdot H_2O$ (tptz = 2,4,6-tri(2-pyridyl)-1,3,5-triazine) prepared by crystallization from the ionic liquid, *N*-butyl-*N*-methyl-pyrrolidinium *bis*(trifluoromethanesulfonyl)imide," *J. Chem. Crystallogr.* **2006**, *36*, 799-804.
591. Katritzky, A. R.; Yang, H.; Zhang, D.; Kirichenko, K.; Smiglak, M.; Holbrey, J. D.; Reichert, W. M.; Rogers, R. D. "Strategies Toward the Design of Energetic Ionic Liquids: Nitro- and Nitrile-substituted *N*,*N'*-Dialkylimidazolium Salts," *New. J. Chem.* **2006**, *30*, 349-358.
592. Katritzky, A. R.; Singh, S.; Kirichenko, K.; Smiglak, M.; Holbrey, J. D.; Reichert, W. M.; Spear, S. K.; Rogers, R. D. "In search of ionic liquids incorporating azolate anions," *Chem. Eur. J.* **2006**, *12*, 4630-4641.
593. Moore, L. R.; Cooks S. M.; Anderson, M. S.; Schanz, H.-J.; Griffin,S. T.; Rogers, R. D.; Kirk, M. C.; Shaughnessy, K. H. "Synthesis and Characterization of Water-Soluble Silver and Palladium Imidazol-2-ylidene Complexes with Noncoordinating Anionic Substituents," *Organometallics* **2006**, *25*, 5151-5158.
594. Parks, B. W.; Gilbertson, R. D.; Hutchison, J. E.; Rather Healey, E.; Weakley, T. J. R.; Rapko, B. M.; Hay, B. P.; Sinkov, S. I.; Broker, G. A.; Rogers, R. D. "Solution and Structural Investigations of Ligand Preorganization in Trivalent Lanthanide Complexes of Bicyclic Malonamides," *Inorg. Chem.* **2006**, *45*, 1498-1507.
595. Pernak, J.; Smiglak, M.; Griffin, S. T.; Hough, W. L.; Wilson, T. B.; Pernak, A.; Zabielska-Matejuk, J.; Fojutowski, A.; Kita, K.; Rogers, R. D. "Long alkyl chain quaternary ammonium-based ionic liquids and potential applications," *Green Chem.* **2006**, *8*, 798-806.
596. Reichert, W. M.; Holbrey, J. D.; Vigour, K. B.; Morgan, T. D.; Broker, G. A.; Rogers, R. D. "Approaches to Crystallization From Ionic Liquids: Complex Solvents-Complex Results, or, a Strategy for Controlled Formation of New Supramolecular Architectures?" *Chem. Commun.* **2006**, 4767-4779 (Invited Feature Article).
597. Remsing, R. C.; Swatloski, R. P.; Rogers, R. D.; Moyna, G. "Mechanism of cellulose dissolution in the ionic liquid 1-n-butyl-3-methylimidazolium chloride: a ^{13}C and $^{35/37}Cl$ NMR relaxation study on model systems," *Chem. Commun*. **2006**, 1271-1273.
598. Smiglak, M.; Reichert, W. M.; Holbrey, J. D.; Wilkes, J. S.; Sun, L.; Thrasher, J. S.; Kirichenko, K.; Singh, S.; Katritzky, A. R.; Rogers, R. D. "Combustible Ionic Liquids by Design: Is Laboratory Safety Another Ionic Liquid Myth?" *Chem. Commun.* **2006**, 2554-2556. (Highlighted as a Hot Article by *Chem. Commun.* June 5, 2006, URL: http://www.rsc.org/Publishing/Journals/cc/index.asp; last accessed June 6, 2006); Highlighted in *Chemical Science* (an RSC web supplement), June 20, 2006, URL: http://www.rsc.org/Publishing/ChemScience/Volume/2006/07/ionic_combustible.asp; last accessed April 14, 2007.)
599. Swatloski, R. P.; Holbrey, J. D.; Weston, J. L.; Rogers, R. D. "Preparation of magnetic cellulosic composites using ionic liquids," *Chimica Oggi/CHEMISTRY TODAY* **2006**, *24*, 31-35.
600. Bridges, N. J.; Gutowski, K. E.; Rogers, R. D. "Investigation of aqueous biphasic systems formed from solutions of chaotropic salts with kosmotropic salts (salt-salt ABS)," *Green Chem.* **2007**, *9*,177-183.
601. Bridges, N. J.; Hines, C. C.; Smiglak, M.; Rogers, R. D. "An Intermediate for the Clean Synthesis of Ionic Liquids: Isolation and Crystal Structure of 1,3-Dimethylimidazolium Hydrogen Carbonate Monohydrate," *Chem. Eur. J.* **2007**,*13*, 5207-5212.
602. Cantorias, M. V.; Howell, R. C.; Todaro, L.; Cyr, J. E.; Berndorff, D.; Rogers, R. D.; Francesconi, L. C., "MO Tripeptide Diastereomers (M = $^{99/99m}Tc$, Re): Models to Identify the Structure of ^{99m}Tc Peptide Targeted Radiopharmaceuticals," *Inorg. Chem.* **2007**, *46*, 7326-7340.

603. Cocalia, V. A.; Rogers, R. D. "Ionic Liquid Impregnated Resins in Solid-Liquid Separations," *ECS Transactions* **2007**, *3*, 123-134.
604. Cordes, D. B.; Sharma, C. V. K.; Rogers, R. D. "Enantiomorphic Helical Coordination Polymers of $\{[M(pyrimidine)(OH_2)_4][SiF_6]\cdot H_2O\}_\infty$, ($M = Co^{2+}$, Cu^{2+}, Zn^{2+})," *Cryst. Growth Des.* **2007**, *7*, 1943-1945.
605. Fort, D. A.; Remsing, R. C.; Swatloski, R. P.; Moyna, P.; Moyna, G.; Rogers, R. D. "Can ionic liquids dissolve wood? Processing and analysis of lignocellulosic materials with 1-*n*-butyl-3-methylimidazolium chloride," *Green Chem.* **2007**, *9*, 63-69.
606. Gutowski, K. R.; Cocalia, V. A.; Griffin, S. T.; Bridges, N. J.; Dixon, D. A.; Rogers, R. D. "Interactions of 1-Methylimidazole with $UO_2(CH_3CO_2)_2$ and $UO_2(NO_3)_2$: Structural, Spectroscopic, and Theoretical Evidence for Imidazole Binding to the Uranyl Ion," *J. Am. Chem. Soc.* **2007** *129*, 526-536.
607. Gutowski, K. E.; Rogers, R. D.; Dixon, D. A. "Accurate Thermochemical Properties for Energetic Materials Applications. II. Heats of Formation of Imidazolium-, 1,2,4-Triazolium-, and Tetrazolium-Based Energetic Salts from Isodesmic and Lattice Energy Calculations" *J. Phys. Chem. B* , **2007**, *111*, 4788-4800.
608. Hines, C. C.; Bauer, C. B.; Rogers, R. D. "Lanthanide Polyether Complexation Chemistry: The Interaction of Hydrated Lanthanide(III) Nitrate Salts with an Acyclic 18-crown-6 Analog, Pentaethylene Glycol," *New J. Chem.* **2007**, *31*, 762-769.
609. Hough, W. L.; Rogers, R. D., "Ionic Liquids Then and Now: From Solvents to Materials to Active Pharmaceutical Ingredients," *Bull. Chem. Soc. Jpn*. **2007**, *80*, 2262-2269.
610. Hough, W. H.; Smiglak, M.; Rodríguez, H.; Swatloski, R. P.; Spear, S. K.; Daly, D. T.; Pernak, J.; Grisel, J. E.; Carliss, R. D.; Soutullo, M. D.; Davis, Jr., J. H.; Rogers, R. D. "The Third Evolution of Ionic Liquids: Active Pharmaceutical Ingredients," *New J. Chem.* **2007**, *31*, 1429-1436. (August Cover Article. Highlighted in Parker, D. "The Third Age of Ionic Liquids?" *Chemistry World*, August 2007, *4*, p 30 and *Chem. Sci.* **2007**, *4*, C59. Also in *Chemical Biology Virtual Journal*, **2007**, Issue 15: http://www.rsc.org/cgi-shell/empower.exe?DB=rsc-cbvjournal&B=F22003&B=F415&ISSNO=15.)
611. Pernak, J.; Feder-Kubis, J.; Cieniecka-Rosłonkiewicz, A.; Fischmeister, C.; Griffin, S. T.; Rogers, R. D. "Synthesis and Properties of Chiral Imidazolium Ionic Liquids with a (*1R,2S,5R*)-(–)-Menthoxymethyl Substituent," *New. J. Chem.* **2007**, *31*, 879-892. [Erratum: *New. J. Chem.* **2007**, *31*, 1022.]
612. Pernak, J.; Syguda, A.; Mirska, I.; Pernak, A.; Nawrot, J.; Prądzyńska, A.; Griffin, S. T.; Rogers, R. D. "Choline-Derivative-Based Ionic Liquids,"*Chem. Eur. J.* **2007**, *13*, 6817-6827.
613. Poplin, J. H.; Rudkevich, D. M.; Swatloski, R. P.; Rogers, R. D. "Development of Ionic Liquid Membranes for NO_x Gas Detection and Storage Utilizing Calix[4]Arenes," *ECS Transactions* **2007**, *3*, 105-108.
614. Poplin, J. H.; Swatloski, R. P.; Holbrey, J. D.; Spear, S. K.; Metlen, A.; Grätzel, M.; Nazeeruddin, M. K.; Rogers, R. D. "Sensor Technologies Based on a Cellulose Support," *Chem. Commun.* **2007**, 2025-2027.
615. Pusey, M. L.; Paley, M. S.; Turner, M. B.; Rogers, R. D. "Protein Crystallization Using Room Temperature Ionic Liquids," *Cryst. Growth Des.* **2007**, *7*, 787-793.
616. Reichert, W. M.; Holbrey, J. D.; Swatloski, R. P.; Gutowski, K. E.; Visser, A. E.; Nieuwenhuyzen, M.; Seddon, K. R.; Rogers, R. D. "Solid-state analysis of low-melting 1,3-dialkylimidazolium hexafluorophosphate salts (ionic liquids) by combined X-ray crystallographic and computational analyses," *Cryst. Growth Des.* **2007**, *7*, 1106-1114.
617. Rogers, R. D. "Reflections on Ionic Liquids," Nature **2007**, *447*, 917-918.
618. Smiglak, M.; Holbrey, J. D.; Griffin, S. T.; Reichert, W. M.; Swatloski, R. P.; Katritzky, A. R.; Yang, H.; Zhang, D.; Kirichenko, K.; Rogers, R. D. "Ionic Liquids *via* reaction of the zwitterionic 1,3-dimethylimidazolium-2-carboxylate with protic acids. Overcoming synthetic limitations and establishing new halide free protocols for the formation of ILs" *Green Chem.* **2007**, *9*, 90-98.
619. Smiglak, M.; Metlen, A.; Rogers, R. D. "The Second Evolution of Ionic Liquids: From Solvents and Separations to Advanced Materials - Energetic Examples from the Ionic Liquid Cookbook," *Acc. Chem. Res.* **2007**, *40*, 1182-1192.
620. Spear, S. K.; Griffin, S. T.; Granger, K. S.; Huddleston, J. G.; Rogers, R. D. "Renewable Plant-Based Soybean Oil Methyl Esters as Alternatives to Organic Solvents," *Green Chem.* **2007**, *9*, 1008–1015.
621. Sun, N.; Swatloski, R. P.; Maxim, M. L.; Broughton, Jr., R. M.; Spear, S. K.; Daly, D. T.; Haque, A.; Harland, A. G.; Rogers, R. D. "Cellulose Fibers Prepared from Direct Dissolution of Cellulose in Ionic Liquids," *Proceedings of the 4th International Conference of Textile Research Division NRC, Cairo, Egypt, April 14-17, 2007; Textile Processing : State of the Art & Future Developments* **2007**, *4*, 139-143.
622. Visser, A. E.; Huddleston, J. G.; Holbrey, J. D.; Reichert, W. M.; Swatloski, R. P.; Rogers, R. D. "Hydrophobic *n*-Alkyl-*N*-Isoquinolinium Salts: Ionic Liquids and Low melting Solids," In *Ionic Liquids IV Not Just Solvents Anymore*, Brennecke, J. F.; Rogers, R. D.; Seddon K. R. (Eds.); ACS Symposium Series 975; American Chemical Society: Washington DC, 2007; pp 362-380.
623. Whitcomb, D. R.; Swatloski, R. P.; Rogers, R. D. "Mode of complex formation between thiones and silver ion within a photothermographic formulation: The crystal and molecular structure of hexa-(silver-5-methyl-2-mercaptobenzimidazole THF)," *J. Imaging Sci. Technol.* **2007**, *51*, 547-551.
624. Bagheri, M.; Rodríguez, H.; Swatloski, R. P.; Spear S. K.; Daly, D. T.; Rogers, R. D. "Ionic liquid-based preparation of cellulose-dendrimer films as solid supports for enzyme immobilization," *Biomacromolecules* **2008**, *9*, 381-387.
625. Bailey, M. M.; Townsend, M. B.; Jernigan, P. L.; Sturdivant, J.; Hough-Troutman, W. L.; Rasco, J. F.; Swatloski, R. P.; Rogers, R. D.; Hood, R. D., "Developmental toxicity assessment of the ionic liquid 1-butyl-3-methylimidazolium chloride in CD-1 mice," *Green Chem.* **2008**, *10*, 1213-1217.
626. Bridges, N. J.; Rogers, R. D. "Can Kosmotropic Salt/Chaotropic Ionic Liquid (Salt/Salt Aqueous Biphasic Systems) be Used to Remove Pertechnetate From Complex Salt Waste?" *Sep. Sci. Technol.* **2008**, *43*, 1083-1090.

627. Cocalia, V. A.; Visser, A. E.; Rogers, R. D.; Holbrey, J. D. "Solubility and solvation in ionic liquids," In *Ionic Liquids in Synthesis, Second Edition*; Wasserscheid, P.; Welton, T., Eds.; Wiley-VCH, Weinheim, 2008; Vol. 1, pp 89-102.
628. Dilip, M.; Griffin, S. T.; Spear, S. K.; Rijksen, C.; Rodríguez, H.; Rogers, R. D. "Dual Nature of Polyethylene Glycol-Based Aqueous Biphasic Extraction Chromatographic (ABEC) Resins: Uptakes of Perchlorate versus Mercury(II)," *Ind. Eng. Chem. Res.* **2008**, *47*, 7390-7396.
629. Gurau, G.; Cocalia, V. A.; Rogers, R. D. "Separations, Coordination, And Solvation In Ionic Liquids; What Is There That Is Unique?" In *Solvent Extraction: Fundamentals to Industrial Applications - Proceedings of ISEC 2008 International Solvent Extraction Conference, (ISEC 2008)*, Moyer, B. A.; Baron, P.; Chagnes, A.; Cole, P. M.; Cote, G.; Dietz, M. L.; Hatton, T. A.; Horwitz, E. P.; de Ortiz, E. S. P.; Ritcey, G. M.; Robinson, D.; Rogers, R. D.; Sole, K. C.; Tasker, P. A.; Todd, T. A.; Virnig, M. J. (Eds.); Canadian Institute of Mining, Metallurgy and Petroleum: Montréal, 2008; Vol. 2; pp 1263-1270.
630. Hines, C. C.; Cocalia, V. A.; Rogers, R. D. "Using Ionic Liquids to Trap Unique Coordination Environments: Polymorphic Solvates of $ErCl_3(OH_2)_4 \cdot 2([C_2mim]Cl)$," *Chem. Commun.* **2008**, 226-228.
631. Hines, C. C.; Cordes, D. B.; Griffin, S. T.; Watts, S. I.; Cocalia, V. A.; Rogers, R. D. "Flexible Coordination Environments of Lanthanide Complexes Grown from Chloride-based Ionic Liquids," *New J. Chem.* **2008**, *32*, 872-877.
632. Hines, J. H.; Wanigasekara, E.; Rudkevich, D. M.; Rogers, R. D. "Calix[4]arenes immobilized in a cellulose-based platform for entrapment and detection of NO_x gases," *J. Mater. Chem.* **2008**, *18*, 4050-4055.
633. Holbrey, J. D.; Rogers, R. D. "Physicochemical properties of ionic liquids: Melting points and phase diagrams," In *Ionic Liquids in Synthesis, Second Edition*; Wasserscheid, P.; Welton, T., Eds.; Wiley-VCH, Weinheim, 2008; Vol. 1, pp 57-72.
634. Remsing, R. C.; Hernandez, G.; Swatloski, R. P.; Massefski, W. W.; Rogers, R. D.; Moyna, G. "Solvation of Carbohydrates in *N*,*N'*-Dialkylimidazolium Ionic Liquids: A Multinuclear NMR Spectroscopy Study," *J. Phys. Chem. B,* **2008**, *112*, 11071-11078.
635. Rodríguez, H.; Williams, M.; Wilkes, J. S.; Rogers, R. D. "Ionic Liquids for Liquid-in-Glass Thermometers", *Green Chem.*, **2008**, *10*, 501-507. (Highlighted in "Pegg, S. "Designer thermometers rise to new levels," *Chemical Technology* **2008** *5*; http://www.rsc.org/Publishing/ChemTech/Volume/2008/05/designer_thermometers.asp last accessed March 25, 2008.)
636. Rijksen, C.; Rogers, R. D. "A solventless route to 1-ethyl-3-methylimidazolium fluoride hydrofluoride, $[C_2mim][F] \cdot xHF$," *J. Org. Chem.* **2008**, *73*, 5582-5584.
637. Smiglak, M.; Bridges, N. J.; Dilip, M.; Rogers, R. D. "Direct, atom efficient, and halide-free syntheses of azolium azolate energetic ionic liquids and their eutectic mixtures, and method for determining eutectic composition," *Chem. Eur. J.* **2008**, *14*, 11314-11319.
638. Sun, N.; Swatloski, R. P.; Maxim, M. L.; Rahman, M.; Harland, A. G.; Haque, A.; Spear, S. K.; Daly, D. T.; Rogers, R. D. "Magnetite-Embedded Cellulose Fibers Prepared from Ionic Liquid," *J. Mater. Chem.* **2008**, *18*, 283-290.
639. Cordes, D. B.; Smiglak, M.; Hines, C. C.; Bridges, N. J.; Dilip, M.; Srinivasan, G.; Metlen, A.; Rogers, R. D. "Ionic Liquid-Based Routes to Conversion or Reuse of Recycled Ammonium Perchlorate," *Chem. Eur. J.* **2009**, 15, 13441-13448.
640. Haque, R; Spear, S. K.; Daly, D. T.; Rogers R. D.; Vemuganti, S.; Haque, A. " Electrical and Mechanical Properties of Polypyrrole-Cellulose Fiber Composites Synthesized Via a Novel Chemical Processing Route," Technical Proceedings of the 17th International Conference on Composite Materials, Edinburgh, Scotland, 27-31 July, 2009.
641. Hough-Troutman, W. L.; Smiglak, M.; Griffin, S. T.; Reichert, W. M.; Mirska, I.; Jodynis-Liebert, J.; Adamska, T.; Nawrot, J.; Stasiewicz, M.; Rogers, R. D.; Pernak, J. "Ionic Liquids with Dual Biological Function: Sweet and Anti-microbial, Hydrophobic Quaternary Ammonium-based Salts," *New J. Chem.* **2009**, *33*, 26-33.
642. Rodríguez, H.; Francisco, M.; Rahman, M.; Sun, N.; Rogers, R. D. "Biphasic liquid mixtures of ionic liquids and polyethylene glycols," *Phys. Chem. Chem. Phys.* **2009**, *11*, 10916-10922.
643. Rodríguez, H.; Gurau, G.; Rogers, R. D. "Ionic liquids: growth of a field through the eyes of the I&EC division," In *Innovations in Industrial and Engineering Chemistry: A Century of Achievements and Prospects for the New Millenium*, Flank, W. H.; Abraham, M. A.; Matthews, M. A. (Eds.); ACS Symposium Series 1000; American Chemical Society: Washington DC, 2009; pp 389-400.
644. Shamery, T. L.; Huddleston, J. G.; Chen, J.; Spear, S. K.; Rogers, R. D. "Aqueous Biphasic Systems for Liquid-Liquid Separations," in *Experiments in Green and Sustainable Chemistry*, Roesky, H. W.; Kennepohl, D. K. (Eds.); Wiley-VCH: Weinheim, 2009; pp 92-96.
645. Sun, N.; Rahman, M.; Qin, Y.; Maxim, M. L.; Rodríguez, H.; Rogers, R. D. "Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate," *Green Chem.* **2009**, *11*, 646-655.
646. Abai, M.; Holbrey, J. D.; Rogers, R. D.; Srinivasan, G. "Ionic liquid *S*-alkylthiouronium salts," *New J. Chem.* **2010**, *34*, 1981-1993.
647. Bailey, M.; Jernigan, P.; Henson, M. B.; Sturdivant, J.; Rasco, J.; Lovich, A. N.; Lockard, J. E.; Hough, W.; Di Bona, K. R.; Bearid, J.; Shernill, J.; Swatloski, R. P; Rogers, R. D.; Hood, R., "A Comparison of the Effects of Prenatal Exposure of CD-1 Mice to Three Imidazolium-Based Ionic Liquids," *Birth Def. Res. B Develop. Reprod. Tox.* **2010**, *89*, 233-238.
648. Bica, K.; Rijksen, C.; Nieuwenhuyzen, M.; Rogers, R. D. "In Search of Pure Liquid Salt Forms of Aspirin: Ionic Liquid Approaches with Acetylsalicylic Acid and Salicylic Acid," *Phys. Chem. Chem. Phys.* **2010**, *12*, 2011-2017. DOI: 10.1039/b923855g.
649. Bica, K.; Rogers, R. D. "Confused Ionic Liquid Ions – A "Liquification" and Dosage Strategy for Pharmaceutically Active Salts," *Chem. Commun.* **2010**, *46*, 1215-1217. DOI: 10.1039/b925147b. (Designated a *Chem. Commun*. Hot Article 02/18/10.)
650. Cocalia, V.; Smiglak, M.; Kelley, S. P.; Shamshina, J. L.; Gurau, G.; Rogers, R. D. "Crystallization of uranyl salts from dialkylimidazolium ionic liquids or their precursors," *Eur. J. Inorg. Chem.* **2010,** 2760-2767. DOI: 10.1002/ejic.201000162.
651. Dilip, M.; Griffin, S. T.; Spear, S. K.; Rodríguez, H.; Rijksen, C.; Rogers, R. D. "Comparison of Temperature Effects on the

Salting-Out of Polyethylene Glycol versus Polyethylene Oxide-Polypropylene Oxide Random Copolymer," *Ind. Eng. Chem. Res.* **2010**, *49*, 2371-2379.

652. Drab, D. M.; Shamshina, J. L.; Smiglak, M.; Hines, C. C.; Cordes, D. B.; Rogers, R. D. "A general design platform for ionic liquid ions based on bridged multi-heterocycles with flexible symmetry and charge", *Chem. Commun.* **2010**, *46*, 3544-3546. DOI: 10.1039/c002861d.
653. Forton, M. S.; Sims, J. D.; Askins, R. E.; Stevenson, W. H.; Shamshina, J.; Smiglak, M.; Rogers, R. D.; Barrow, R. "An Ionic Liquid-Based Next Generation Double Base Propellant Stabilizer," In Proceedings of the 46th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, 25-28 July 2010, Nashville, TN; American Institute of Aeronautics and Astronautics, Inc.: Reston, VA; AIAA 2010-6587; pp 1-8. DOI: 10.2514/6.2010-6587
654. Hanes, Jr., R. E.; Ellingsworth, E. E.; Griffin, S. T.; Rogers, R. D.; Bartsch, R. A. "Polybenzocrown ethers: synthesis by cesium-assisted cyclization and solid-state structures," *ARKIVOC*, **2010**, *vii*, 217-237.
655. Hill, L. L.; Crowell, J. L.; Tutwiler, S. L.; Massie, N. L.; Hines, C. C.; Griffin, S. T.; Rogers, R. D.; Shaughnessy, K. H. "Synthesis and X-ray Structure Determination of Highly Active Pd(II), Pd(I), and Pd(0) Complexes of Di(*tert*-butyl)neopentylphosphine (DTBNpP) in the Arylation of Amines and Ketones," *J. Org. Chem.* **2010**, *75*, 6477-6488.
656. Holbrey, J. D.; Rogers, R. D.; Shukla, S. S.; Wilfred, C. D. "Optimised microwave-assisted synthesis of methylcarbonate salts: a convenient methodology to prepare intermediates for ionic liquid libraries," *Green Chem.* **2010**, *12*, 407-413.
657. Li, W.; Sun, N.; Rogers, R. D. "How can we improve the dissolution and recovery of biopolymers from biomass in ionic liquids specifically for biofuels applications?" In *Preprints of Symposia - American Chemical Society, Division of Fuel Chemistry* **2010**, *55*, 103.
658. Maxim, M. L.; Sun, N.; Swatloski, R. P.; Rahman, M.; Harland, A. G.; Haque, A.; Spear, S. K.; Daly, D. T.; Rogers, R. D. "Properties of Cellulose/TiO_2 Fibers Processed from Ionic Liquids," In *Cellulose Solvents; For Analysis, Shaping and Chemical Modification*; Liebert, T. F.; Heinze, T. J.; Edgar, K. J., Eds.; ACS Symposium Series 1033, American Chemical Society: Washington, DC 2010; pp 261-274.
659. Nadeem, S.; Munawar, M. A.; Ahmad, S.; Smiglak, M.; Drab, D. M.; Malik, K. I.; Amjad, R.; Ashraf, C. M.; Rogers, R. D. "Solvent-free synthesis of benzothiazole-based quaternary ammonium salts: Precursors to Ionic Liquids," *ARKIVOC* **2010**, *vii*, 19-37.
660. Qin, Y.; Lu, X.; Sun, N.; Rogers, R. D. "Dissolution or Extraction of Crustacean Shells Using Ionic Liquids to Obtain High Molecular Weight Purified Chitin and Direct Production of Chitin Films and Fibers," *Green Chem.* **2010**, *12*, 968-971. **DOI:** 10.1039/c003583a
661. Rodríguez, H.; Rogers, R. D. "Liquid mixtures of ionic liquids and polymers as solvent systems," *Fluid Phase Equil.* **2010**, *294*, 7-14. DOI: 10.1016/j.fluid.2009.12.036.
662. Rogers, R. D. "The fields of crystal engineering and ionic liquids are actually quite similar," *Aust. J. Chem.* **2010**, *63*, 533-534. DOI: 10.1071/CH10099
663. Shamshina, J. L.; Smiglak, M.; Drab, D. M.; Parker, T. G.; Dykes, Jr., H. W. H.; Di Salvo, R.; Reich, A. J.; Rogers, R. D. "Catalytic ignition of ionic liquids for propellant applications," *Chem. Commun.* **2010**, *46*, 8965-8967. DOI: 10.1039/C0CC02162H.
664. Smiglak, M.; Hines, C. C.; Rogers, R. D. "New hydrogen carbonate precursors for efficient and byproduct-free syntheses of ionic liquids based on 1,2,3-trimethylimidazolium and N,N-dimethylpyrrolidinium cores," *Green Chem.* **2010**, *12*, 491-501.
665. Smiglak, M.; Hines, C. C.; Wilson, T. B.; Singh, S.; Vincek, A. S.; Kirichenko, K.; Katritzky, A. R.; Rogers, R. D. "Ionic Liquids Based on Azolate Anions," *Chem. Eur. J.* **2010**, *16*, 1572-1584. (VIP designated paper)
666. Stoimenovski, J.; MacFarlane, D. R.; Bica, K.; Rogers, R. D. "Crystalline vs. Ionic Liquid Salt Forms of Active Pharmaceutical Ingredients: A Position Paper," *Pharm. Res.* **2010**, *27*, 521-526. DOI: 10.1007/s11095-009-0030-0
667. Sun, N.; Jiang, X.; Li, W.; Lu, X.; Rogers, R. D. "Wood Pulping Using Ionic Liquids," In *Research Progress in Paper Industry and Biorefinery - Proceedings of 4th International Symposium on Emerging Technologies of Pulping and Papermaking 2010 (4th ISETPP 2010)*, Sun, R.; Fu, S., Eds.; South China University of Technology Press, Guangzhou, 2010; pp 6-9.
668. Sun, N.; Jiang, X.; Maxim, M. L.; Rogers, R. D. "Wood Delignification Using Polyoxometalates in Ionic Liquid" In *Preprints of Symposia - American Chemical Society, Division of Fuel Chemistry* 2010, *55*, 487-488.
669. Bica, K; Cooke, L. R.; Nugent, P.; Rijksen, C.; Rogers, R. D. "Toxic on Purpose: Ionic Liquid Fungicides as Combinatorial Crop Protecting Agents," *Green Chem.* **2011**, *13*, 2344-2346. DOI: 10.1039/C1GC15170C.
670. Bica, K.; Gaertner, P.; Rogers, R. D. "Ionic Liquids and Fragrances – Direct Isolation of Orange Essential Oil," *Green Chem.* **2011**, *13*, 1997-1999. DOI: 10.1039/c1gc15237h.
671. Bica, K.; Shamshina, J.; Hough. W. L.; MacFarlane, D. R.; Rogers, R. D. "Liquid Forms of Pharmaceutical Co-crystals: Exploring the Boundaries of Salt Formation," *Chem. Commun.* **2011**, *47*, 2267-2269. DOI: 10.1039/C0CC04485G
672. Choi, S. Y.; Rodríguez, H.; Mirjafari, A.; Gilpin, D. F.; McGrath, S.; Malcolm, K. R.; Tunney, M. M.; Rogers, R. D.; McNally, T. "Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers," *Green Chem.* **2011**, *13*, 1527-1535. DOI: 10.1039/C1GC15132K.
673. Drab, D. M.; Smiglak, M.; Shamshina, J. L.; Kelley, S. P.; Schneider, S.; Hawkins, T. W.; Rogers, R. D. "Synthesis of *N*-cyanoalkyl-functionalized imidazolium nitrate and dicyanamide ionic liquids with a comparison of their thermal properties for energetic applications," *New J. Chem.* **2011**, *35*, 1701-1717. DOI: 10.1039/C0NJ00889C
674. Gurau, G.; Rodríguez, H.; Kelley, S. P.; Janiczek, P.; Kalb, R. S.; Rogers, R. D. "Demonstration of Chemisorption of Carbon Dioxide in 1,3-Dialkylimidazolium Acetate Ionic Liquids," *Angew. Chem. Int. Ed. Engl.* **2011**, *50*, 12024-12026.
675. Li, W.; Sun, N.; Stoner, B.; Jiang, X.; Lu, X.; Rogers, R. D. "Rapid Dissolution of Lignocellulosic Biomass in Ionic Liquids

Using Temperatures above the Glass Transition of Lignin," *Green Chem.* **2011**, *13*, 2038-2047. DOI: 10.1039/C1GC15522A.
676. Maiti, A.; Rogers, R. D. "A Correlation-Based Predictor for Pair-Association in Ionic Liquids," *Phys. Chem. Chem. Phys.* **2011,** *13*, 12138-12145. DOI: 10.1039/C1CP21018A.
677. Pogodina, N. V.; Metwalli, E.; Müller-Buschbaum, P.; Wendler, K.; Lungwitz, R.; Spange, S.; Shamshina, J. L.; Rogers, R. D.; Friedrich, Ch. "Peculiar Behavior of Azolium Azolate Energetic Ionic Liquids," *J. Phys. Chem. Lett.* **2011**, *2*, 2571-2576. DOI: 10.1021/jz201175v.
678. Rodríguez, H.; Gurau, G.; Holbrey, J. D.; Rogers, R. D. "Reaction of elemental chalcogens with imidazolium acetates to yield imidazole-2-chalcogenones: direct evidence for ionic liquids as proto-carbenes," *Chem. Commun.*, **2011**, *47*, 3222-3224. DOI: 10.1039/C0CC05223J.
679. Schoedel, A.; Wojtas, L.; Kelley, S. P.; Rogers, R. D.; Eddaoudi, M.; Zaworotko, M. J. "Network Diversity *via* Decoration of Trigonal Prismatic Nodes: Two-Step Crystal Engineering of Cationic Metal-Organic Materials," *Angew. Chem. Int. Ed. Engl.* **2011**, *50*, 11421-11424.
680. Sun, N.; Li, W.; Stoner, B.; Jiang, X.; Lu, X.; Rogers, R. D. "Composite Fibers Spun directly from Solutions of Raw Lignocellulosic Biomass Dissolved in Ionic Liquids," *Green Chem.* **2011**, *13*, 1158-1161. DOI: 10.1039/C1GC15033B.
681. Sun, N.; Jiang, X.; Maxim, M. L.; Metlen, A.; Rogers, R. D. "Use of Polyoxometalate Catalysts in Ionic Liquids to Enhance the Dissolution and Delignification of Woody Biomass," *ChemSusChem* **2011**, *4*, 65-73. DOI: 10.1002/cssc.201000272.
682. Sun, N.; Rodríguez, H.; Rahman, M.; Rogers, R. D. "Where are ionic liquid strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?" *Chem. Commun.* **2011**, *47*, 1405-1421. DOI: 10.1039/C0CC03990J.
683. Zhang, X. W.; Maunder, G. H.; Gießmann, S.; MacDonald, R.; Ferguson, M. J.; Bond, A. H.; Rogers, R. D.; Sella, A.; Takats, J. "Stable heteroleptic complexes of divalent lanthanides with bulky pyrazolylborate ligands – iodides, hydrocarbyls and triethylborohydrides," *Dalton Trans.* **2011**, *40*, 195-210. DOI: 10.1039/C0DT00162G.
684. Aitipamula, S.; Banerjee, R.; Bansal, A. K.; Biradha, K.; Cheney, M. L.; Choudhury, A. R.; Desiraju, G. R.; Dikundwar, A. G.; Dubey, R.; Duggirala, N.; Ghogale, P. P; Ghosh, S.; Goswami, P. K.; Goud, N. R.; Jetti, R. R. K. R.; Karpinski, P.; Kaushik, P.; Kumar, D.; Kumar, V.; Moulton, B.; Mukherjee, A.; Mukherjee, G.; Myerson, A. S.; Puri, V.; Ramanan, A.; Rajamannar, T.; Reddy, C. M.: Rodriguez-Hornedo, N.; Rogers, R. D.; Guru Row, T. N.; Sanphui, P.; Shan, N.; Shete, G.; Singh, A.; Changquan, C. S.; Swift, J. A.; Thaimattam, R.; Thakur, T. S.; Thaper, R. K.; Thomas, S. P.; Tothadi, S.; Vangala, V. R.; Vishweshwar, P.; Weyna, D. R.; Zaworotko, M. J."Polymorphs, Salts, and Cocrystals: What's in a Name?" *Cryst. Growth Des.* **2012,** *12* 2147-2152. DOI: 10.1021/cg3002948. [Author List Correction Published *Cryst. Growth Des.* **2012**, *12*, 4290-4291. DOI: 10.1021/cg300704b.
685. Azubuike, C. P.; Rodríguez, H.; Okhamafe, A. O.; Rogers, R. D. "Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution," *Cellulose* **2012**, *19*, 425-433. DOI 10.1007/s10570-011-9631-y.
686. Barber, P. S.; Kelley, S. P.; Rogers, R. D. "Highly selective extraction of the uranyl ion with hydrophobic amidoximefunctionalized ionic liquids via η^2 coordination," *RSC Adv.* **2012**, *2*, 8526-8530. DOI: 10.1039/c2ra21344c.
687. Bica, K.; Rodríguez, H.; Gurau, G.; Cojocaru, O. A.; Riisager, A.; Fehrmann, R.; Rogers, R. D. "Pharmaceutically Active Ionic Liquids with Solids Handling, Enhanced Thermal Stability, and Fast Release," *Chem. Commun.* **2012**, *48*, 5422-5424. DOI: 10.1039/C2CC30959A
688. Drab, D. M.; Kelley, S. P.; Shamshina, J. L.; Smiglak, M.; Cojocaru, O. A.; Gurau, G.; Rogers, R. D. "Reactivity of *N*-cyanoalkyl-substituted imidazolium halide salts by simple elution through an azide anion exchange resin," *Sci. China Chem.* **2012**, *55*, 1683-1687. DOI: 10.1007/s11426-012-4664-0
689. Drab, D. M.; Shamshina, J. L.; Smiglak, M.; Cojocaru, O. A.; Kelley, S. P.; Rogers, R. D. "Zinc-assisted synthesis of imidazolium-tetrazolate bi-heterocyclic zwitterions with variable alkyl bridge length," *Sci. China Chem.* **2012**, *55*, 1620-1626. DOI: 10.1007/s11426-012-4676-9
690. Freire, M. G.; Pereira, J. F. B.; Francisco, M.; Rodríguez, H.; Rebelo, L. P. N.; Rogers, R. D.; Coutinho, J. A. P. "Insight into the Interactions that Control the Phase Behaviour of Novel Aqueous Biphasic Systems Composed of Polyethylene Glycol Polymers and Ionic Liquids," *Chem. Eur. J.* **2012**, *18*, 1831-1839. DOI: 10.1002/chem.201101780.
691. Gurau, G.; Wang, H.; Qiao, Y.; Lu, X.; Zhang, S.; Rogers, R. D. "Chlorine-free alternatives to the synthesis of ionic liquids for biomass processing" *Pure Appl. Chem.* **2012**, *84*, 745-754. DOI: 10.1351/PAC-CON-11-11-10.
692. Gurau, G.; Kelley, S. P.; Di Bona, K. R.; Smiglak, M.; Rogers, R. D. "Anhydrous Caffeine Hydrochloride and Its Hydration," *Cryst. Growth Des.* **2012**, *12*, 4658-4662. DOI: 10.1021/cg300878j.
693. McMahon, B. W.; Perez, J. P. L.; Schneider, S.; Boatz, J.; Hawkins, T.; McCrary, P. D.; Beasley, P. A.; Rogers, R. D.; Anderson, S. L. "Dual ligand passivation and homogeneous media ball milling: novel approaches for both the synthesis and capping of air-stable aluminum nanoparticles," In *Preprints of Symposia - American Chemical Society, Division of Fuel Chemistry* **2012**, *57*, 965-967.
694. Maiti, A.; Kumar, A.; Rogers, R. D. "Water-clustering in hygroscopic ionic liquids-an implicit solvent analysis," *Phys. Chem. Chem. Phys.* **2012,** *14*, 5139-5146. DOI: 10.1039/c2cp00010e.
695. Mallick, B.; Metlen, A.; Nieuwenhuyzen, M.; Rogers, R. D.; Mudring, A.-V. "Mercuric Ionic Liquids: $[C_n mim][HgX_3]$, Where n = 3, 4 and X = Cl, Br," *Inorg. Chem.* **2012**, *52*, 193-200. DOI: 10.1021/ic201415d.
696. Maxim, M. L.; Sun, N.; Wang, H.; Sterner, J. R.; Haque, A.; Rogers, R. D. "Reinforced magnetic cellulose fiber from ionic liquid solution," *Nanomaterials and Energy* **2012**, *1*, 225-236. DOI: 10.1680/nme.12.00010.
697. Maxim, M. L.; White, J. F.; Block, L. E.; Gurau, G.; Rogers, R. D. "Advanced Biopolymer Composite Materials from Ionic Liquid Solutions," In *Ionic Liquids: Science and Applications*, Visser, A. E.; Bridges, N. J.; Rogers, R. D. (Eds.); ACS Symposium Series 1117; American Chemical Society: Washington, DC, 2012; pp 167-188.

698. McCrary, P. D.; Beasley, P. A.; Alaniz, S. A.; Griggs, C. S.; Frazier, R. M.; Rogers, R. D. "Graphene and Graphene Oxide Can 'Lubricate' Ionic Liquids based on Specific Surface Interactions Leading to Improved Low Temperature Hypergolic Performance," *Angew. Chem. Int. Ed.* **2012**, *51*, 9784-9787.
699. McCrary, P. D.; Beasley, P. A.; Cojocaru, O. A.; Schneider, S.; Hawkins, T. W.; Perez, J. P.; McMahon, B. W.; Pfeil, M.; Boatz, J. A.; Anderson, S. L.; Son, S. F.; Rogers, R. D. "Hypergolic Ionic Liquids to Mill, Suspend, and Ignite Boron Nanoparticles," *Chem. Commun.* **2012**, *48*, 4311-4313. DOI: 10.1039/C2CC30957B.
700. McCrary, P. D.; Beasley, P. A.; Kelley, S. P.; Schneider, S.; Hawkins, T. W.; Perez, J. P. L.; McMahon, B. W.; Pfeil, M.; Boatz, J. A.; Anderson, S. L.; Son, S. F.; Rogers, R. D. "Tuning azolium azolate ionic liquids to promote surface interactions with Titanium nanoparticles leading to increased passivation and colloidal stability," *Phys. Chem. Chem. Phys*. **2012**, *14*, 13194-13198. DOI: 10.1039/C2CP42510F.
701. Perez, J. Paulo L.; McMahon, B. W.; Schnieder, S.; Boatz, J.; Hawkins, T.; McCrary, P. D.; Beasley, P. A.; Rogers, R. D.; Son, S.; Anderson, S. L. "Synthesis of air-stable, unoxidized, boron nanoparticles using ball milling technique," In *Preprints of Symposia - American Chemical Society, Division of Fuel Chemistry* **2012**, *57*, 955-956.
702. Smiglak, M.; Hines, C. C.; Reichert, W. M.; Vincek,A. S.; Katritzky, A. R.; Thrasher, J. S.; Sun, L. Y.; McCrary, P. D.; Beasley, P. A.; Kelley, S. P.; Rogers, R. D. "Synthesis, limitations, and thermal properties of energetically-substituted, protonated imidazolium picrate and nitrate salts and further comparison with their methylated analogs," *New J. Chem.* **2012**, *36*, 702-722. DOI: 10.1039/C1NJ20677J.
703. Trivedi, T. J.; Srivastava, D. N.; Rogers, R. D.; Kumar, A. "Agarose processing in protic and mixed protic–aprotic ionic liquids: dissolution, regeneration and high conductivity, high strength ionogels," *Green Chem.* **2012**, *14*, 2831-2839. DOI: 10.1039/C2GC35906E.
704. Wang, H.; Gurau, G.; Rogers, R. D. "Ionic liquid processing of cellulose," *Chem. Soc. Rev.* **2012**, *41*, 1519-1537. DOI: 10.1039/c2cs15311d.
705. Wang, H.; Zhou, X. S., Gurau, G.; Rogers, R. D. "The role of ionic liquids in the pharmaceutical manufacturing processes," in *Green Techniques for Organic Synthesis and Medicinal Chemistry*, Zhang, W.; Cue, B. W., Jr. (Eds.), Wiley-VCH: Weinheim, 2012; Ch. 17, pp 469-496. ISBN 9780470711514.
706. Zhao, Y.; Liu, X.; Lu, X.; Zhang, S.; Wang, J.; Wang, H.; Gurau, G.; Rogers, R. D.; Su, L.; Li, H. "The Behavior of Ionic Liquids under High Pressure: A Molecular Dynamics Simulation," *J. Phys. Chem. B*, **2012**, *116*, 10876-10884. DOI: 10.1021/jp3070568
707. Barber, P. S.; Griggs, C. S.; Bonner, J. R.; Rogers, R. D. "Electrospinning of chitin nanofibers directly from an ionic liquid extract of shrimp shells" *Green Chem.*, **2013**, *15*, 601-607. DOI: 10.1039/C2GC36582K.
708. Barber, P. S.; Griggs, C. S.; Gurau, G.; Liu, Z.; Li, S.; Li, Z.; Lu, X.; Zhang, S.; Rogers, R. D. "Coagulation of Chitin and Cellulose from 1-Ethyl-3-methylimidazolium Acetate Ionic-Liquid Solutions Using Carbon Dioxide," *Angew. Chem. Int. Ed.* **2013**, *52*, 12350-12353. DOI: 10.1002/anie.201304604.
709. Barber, P. S.; Shamshina, Julia L.; Rogers, R. D.; "A 'Green' Industrial Revolution: Using Chitin towards Transformative Technologies" *Pure Appl. Chem.* **2013***, 85*, 1693-1701. DOI: 10.1351/PAC-CON-12-10-14.
710. Cojocaru, O. A.; Bica, K.; Gurau, G.; Narita, A.; McCrary, P. D.; Shamshina, J. S.; Barber, P. S.; Rogers, R. D. "Prodrug ionic liquids: functionalizing neutral active pharmaceutical ingredients to take advantage of the ionic liquid form," *Med. Chem. Commun.* **2013**, *4*, 559-563. DOI: 10.1021/cg400686e.
711. Cojocaru, O. A.; Kelley, S. P.; Gurau, G.; Rogers, R. D. "Procainium acetate versus procainium acetate dihydrate: Irreversible crystallization of a room-temperature active pharmaceutical ingredient-ionic liquid upon hydration," *Cryst. Growth Des.* **2013**, *13*, 3290−3293. DOI: 10.1021/cg400686e.
712. Cojocaru, O. A.; Shamshina, J. L.; Gurau, G.; Syguda, A.; Praczyk, T.; Pernak, J.; Rogers, R. D. "Ionic liquid forms of the herbicide dicamba with reduced volatility and increased efficacy," *Green Chem*. **2013**, *15*, 2110-2120. DOI: 10.1039/C3GC37143C.
713. Cojocaru, O. A.; Shamshina, J. L.; Rogers, R. D. "Review/Preview: Prodrug ionic liquids," *Chimica Oggi/Chemistry Today*, **2013**, *31*, 24-29.
714. Kelley, S. P.; Narita, A.; Holbrey, J. D.; Green, K. D.; Reichert, W. M.; Rogers, R. D. "Understanding the Effects of Ionicity in Salts, Solvates, Co-Crystals, Ionic Co-Crystals, and Ionic Liquids, Rather than Nomenclature, Is Critical to Understanding Their Behavior," *Cryst. Growth Des.* **2013**, *13*, 965-975. DOI: 10.1021/cg4000439.
715. Lu, W.; Barber, P. S.; Kelley, S. P.; Rogers, R. D. "Coordination and extraction of mercury(II) with an ionic liquid-based thione extractant," *Dalton Trans.* **2013**, *42*, 12908-12916. DOI: 10.1039/C3DT50410G.
716. Mateyawa, S.; Xie, D. F.; Truss, R. W.; Halley, P. J.; Nicholson, T. M.; Shamshina, J. L.; Rogers, R. D.; Boehm, M. W.; McNally, T. "Effect of the ionic liquid 1-ethyl-3-methylimidazolium acetate on the phase transition of starch: Dissolution or gelatinization?" *Carbohydrate Polymers* **2013**, *94*, 520-530. DOI: 10.1016/j.carbpol.2013.01.024.
717. McCrary, P. D.; Beasley, P. A.; Gurau, G.; Narita, A.; Barber, P. S.; Cojocaru, A.; Rogers, R. D. "Drug specific, tuning of an ionic liquid's hydrophilic–lipophilic balance to improve water solubility of poorly soluble active pharmaceutical ingredients," *New J. Chem.* **2013**, *37*, 2196-2202. DOI: 10.1039/c3nj00454f.
718. McCrary, P. D.; Rogers, R. D. "1-Ethyl-3-methylimidazolium Hexafluorophosphate: From Ionic Liquid Prototype to Antitype," *Chem. Commun.* **2013**, *49*, 6011-6014. DOI: 10.1039/C3CC42175A.
719. McNeil, S. K.; Kelley, S. P.; Beg, C.; Cook, H. Rogers, R. D.; Nikles, D. E. "Cocrystals of 10-methylphenthiazine and 1,3-dinitrobenzene: Implications for optical sensing of TNT-based explosives," *ACS Appl. Mater. Interfaces*, **2013**, *5*, 7647-7653. DOI: 10.1021/am401961s.
720. Metlen, A.; Mallick, B.; Murphy, R. W.; Mudring, A.-V.; Rogers, R. D. "Phosphonium Chloromercurate Room Temperature

Ionic Liquids of Variable Composition," *Inorg. Chem.* **2013**, *52*, 13997-14009. DOI: 10.1021/ic401676r.
721. Pereira, J. F. B.; Rebelo, L. P. N.; Rogers, R. D.; Coutinho, J. A. P.; Freire, M. G. "Combining ionic liquids and polyethylene glycols to boost the hydrophobic-hydrophilic range of aqueous biphasic systems," *Phys. Chem. Chem. Phys.* **2013,** *15*, 19580-19583. DOI: 10.1039/C3CP53701C.
722. Pereira, J. F. B.; Rebelo, L. P. N.; Rogers, R. D.; Coutinho, J. A. P.; Freire, M. G. "Washing-out" Ionic Liquid from Polyethylene Glycol to form Aqueous Biphasic Systems," *Phys. Chem. Chem. Phys.* **2013**, *16*, 2271-2274. DOI: 10.1039/C3CP54047B.
723. Perez, J. P. P.; McMahon, B. W.; Schneider, S.; Boatz, J. A.; Hawkins, T. W.; McCrary, P. D.; Beasley, P. A.; Rogers, R. D.; Anderson, S. L. "Exploring the structure of nitrogen-rich ionic liquids and their binding to the surface of oxide-free boron nanoparticles," *J. Phys. Chem. C* **2013**, *117*, 5693-5707. DOI: 10.1021/jp3100409.
724. Raders, S. M.; Moore, J. N.; Parks, J. K.; Miller, A. D.; Leißing, T. M.; Kelley, S. P.; Rogers, R. D.; Shaughnessy, K. H. "Trineopentylphosphine: A Conformationally Flexible Ligand for the Coupling of Sterically Demanding Substrates in the Buchwald-Hartwig Amination and Suzuki-Miyaura Reaction." *J. Org. Chem.* **2013**, *78*, 4649-4664. DOI: 10.1021/jo400435z.
725. Shamshina, J. S.; Barber, P. S.; Rogers, R. D. "Ionic Liquids in Drug Delivery" *Expert Opin. Drug Deliv.* **2013**, *10*, 1367-1381. DOI: 10.1517/17425247.2013.808185.
726. Smiglak, M.; Hines, C. C.; Reichert, W. M.; Shamshina, J. L.; Beasley, P. A.; McCrary, P. D.; Kelley, S. P.; Rogers, R. D. "Azolium azolates from reactions of neutral azoles with 1,3-dimethyl-imidazolium-2-carboxylate, 1,2,3-trimethyl-imidazolium hydrogen carbonate, and N,N dimethyl-pyrrolidinium hydrogen carbonate," *New J. Chem.* **2013**, *37*, 1461-1469. DOI: 10.1039/C3NJ00147D.
727. Wang, H.; Gurau, G.; Kelley, S. P.; Myerson, A. S.; Rogers, R. D. "Hydrophobic *vs.* hydrophilic ionic liquid separations strategies in support of continuous pharmaceutical manufacturing" *RSC Advances*, **2013**, *3*, 10019-10026. DOI: 10.1039/C3RA41082J.
728. Wang, H.; Maxim, M. L.; Gurau, G.; Rogers, R. D. "Microwave-assisted dissolution and delignification of wood in 1-ethyl-3-methylimidazolium acetate" *Bioresour. Technol.* **2013**, *136*, 739-742. DOI: 10.1016/j.biortech.2013.03.064.
729. Barber, P. S.; Kelley, S. P.; Griggs, C. S.; Wallace, S.; Rogers, R. D. "Surface Modification of Ionic Liquid-Spun Chitin Fibers for the Extraction of Uranium from Seawater: Seeking the Strength of Chitin and the Chemical Functionality of Chitosan," *Green Chem.* **2014**, *16*, 1828-1836. DOI: 10.1039/c4gc00092g.
730. Chatel, G.; Pereira, J. F. B.; Debetti, V.; Wang, H.; Rogers, R. D. "Mixing Ionic Liquids – "Simple Mixtures" or "Double Salts"?" *Green Chem.* **2014**, *16*, 2051-2083. DOI: 10.1039/C3GC41389F.
731. Chatel, G.; Rogers, R. D. "Review: Oxidation of Lignin Using Ionic Liquids-An Innovative Strategy To Produce Renewable Chemicals," *ACS Sustainable Chem. Eng.* **2014**, *2*, 322–339. DOI: 10.1021/sc4004086.
732. Cheng, F.; Wang, H.; Chatel, G.; Gurau, G.; Rogers R. D. "Facile Pulping of Lignocellulosic Biomass Using Choline Acetate," *Bioresour. Technol.* **2014**, *164*, 394-401. DOI: 10.1016/j.biortech.2014.05.016.
733. Choi, S. Y.; Rodríguez, H.; Nimal Gunaratne, H. Q.; Puga, A. V.; Gilpin, D. ; McGrath, S.; Vyle, J. S.; Tunney, M. M.; Rogers, R. D.; McNally, T. "Dual functional ionic liquids as antimicrobials and plasticisers for medical grade PVCs," *RSC Adv.* **2014**, *4*, 8567-8581. DOI: 10.1039/c3ra46425c.
734. Cojocaru, O. A.; Siriwardana, A.; Gurau, G.; Rogers, R. D. "Pharmaceutically active supported ionic liquid phases," In *Supported Ionic Liquids – Fundamentals and Applications*, Fehrmann, R., Riisager, A., Haumann, M., Eds.; Wiley-VCH: Weinheim, Germany, 2014; Chapter 19; pp 387-406. ISBN: 978-3-527-32429-3.
735. Griggs, C. S.; Barber, P. S.; Kelley, S. P.; Moser, R. D.; Seiter, J. M.; Thomas, C. C.; Coleman, J. G.; Medina, V. F.; Rogers, R. D. "Biomimetic Mineralization of Uranium by Metabolically-Inactive Shrimp Shell." *Cryst. Growth. Des.* **2014**, *14*, 6172-6176. DOI: 10.1021/cg5015576.
736. Kelley, S. P.; Barber, P. S.; Mullins, P. H. K.; Rogers, R. D. "Structural clues to UO_2^{2+}/VO_2^{+}competition in seawater extraction using amidoxime-based extractants," *Chem. Commun.* **2014**, *50*, 12504-12507. DOI: 10.1039/c4cc06370h.
737. McCrary, P. D.; Barber, P. S.; Kelley, S. P.; Rogers, R. D. "Nonaborane and Decaborane Cluster Anions Can Enhance the Ignition Delay in Hypergolic Ionic Liquids and Induce Hypergolicity in Molecular Solvents," *Inorg. Chem.* **2014**, *53*, 4770-4776. DOI: 10.1021/ic500622f.
738. McCrary, P. D.; Chatel, G.; Alaniz, S. A.; Cojocaru, O. A.; Beasley, P. A.; Flores, L. A.; Kelley, S. P.; Barber, P. S.; Rogers, R. D. "Evaluating Ionic Liquids as Hypergolic Fuels: Determining Reactivity from Molecular Structure," *Energy Fuels* **2014**, *28*, 3460-3473. DOI: 10.1021/ef500264z.
739. Pereira, J. F. B.; Flores, L. A.; Wang, H.; Rogers, R. D. "Benzene Solubility in Ionic Liquids: Working Toward an Understanding of Liquid Clathrate Formation" *Chem. Eur. J.* **2014**, *20*, 15482-15492. DOI: 10.1002/chem.201404253.
740. Pereira, J. F. B.; Kurnia, K. A.; Cojocaru, O. A. ; Gurau, G.; Rebelo, L. P. N.; Rogers, R. D.; Freire, M. G.; Coutinho, J. A. P. "Molecular interactions in aqueous biphasic systems composed of polyethylene glycol and crystalline *vs.* liquid cholinium-based salts," *Phys. Chem. Chem. Phys.* **2014**, *16*, 5723-5731. DOI: 10.1039/C3CP54907K.
741. Perez, J. P. L.; McMahon, B. W.; Yu, J.; Schneider, S.; Boatz, J. A.; Hawkins, T. W.; McCrary, P. D.; Flores, L. A.; Rogers, R. D.; Anderson, S. L. "Boron Nanoparticles with High Hydrogen Loading: Mechanism for B-H Binding and Potential for Improved Combustibility and Specific Impulse," *ACS Appl. Mat. Interfaces* **2014**, *6*, 8513-8525. DOI: 10.1021/am501384m.
742. Pernak, J.; Niemczak, M.; Giszter, R.; Shamshina, J.; Gurau, G.; Cojocaru, O. A.; Praczyk, T.; Marcinkowska, K.; Rogers, R. D. Glyphosate-Based Herbicidal Ionic Liquids with Increased Efficacy. *ACS Sustainable Chem. Eng*. **2014**, *2*, 2845-2851. DOI: 10.1021/sc500612y.
743. Raders, S. M.; Jones, J. M.; Semmes, J. G.; Kelley, S. P; Rogers, R. D.; Shaughnessy, K. H. "Di-*tert*-butylneopentylphosphine (DTBNpP): An efficient ligand in the palladium-catalyzed α-arylation of ketones," *Eur. J. Org. Chem*. **2014**, 7395-7404. DOI:

10.1002/ejoc.201402474.
744. Shamshina, J. L.; Gurau, G.; Block, L. E.; Hansen, L, Dingee, C.; Walters, A.; Rogers, R. D. "Chitin-Calcium Alginate Composite Fibers for Wound Care Dressings Spun from Ionic Liquid Solution," *J. Mater. Chem. B* **2014**, *2*, 3924-3936. DOI: 10.1039/C4TB00329B.
745. Shamshina, J. L.; Rogers, R. D. "Overcoming the problems of solid state drug formulations with ionic liquids: When opinions crystallize is progress lost?" *Therapeutic Delivery* **2014**, *5*, 489-491. DOI: 10.4155/tde.14.28.
746. Smiglak, M.; Pringle, J. M.; Han, L.; Zhang, S.; Gao, H.; MacFarlane, D. R.; Rogers, R. D. "Ionic Liquids for energy, materials, and medicine," *Chem. Commun.* **2014**, *50* (66), 9228–9250. DOI: 10.1039/c4cc02021a.
747. Tome, L. I. N.; Pereira, J. F. B.; Rogers, R. D.; Freire, M. G.; Gomes, J. R. B.; Coutinho, J. A. P. "Evidence for the Interactions Occurring Between Ionic Liquids and Tetraethylene Glycol in Binary Mixtures and Aqueous Biphasic Systems," *J Phys. Chem. B* **2014**, *118*, 4615-4629. DOI: 10.1021/jp501718w.
748. Tome, L. I. N.; Pereira, J. F. B.; Rogers, R. D.; Freire, M. G.; Gomes, J. R. B.; Coutinho, J. A. P. "'Washing-out' ionic liquids from polyethylene glycol to form aqueous biphasic systems," *Phys.Chem.Chem.Phys.* **2014**, *16*, 2271-2274. DOI: 10.1039/c3cp54047b.
749. Wang, H.; Block, L. E.; Rogers, R. D. "Catalytic conversion of biomass in ionic liquids" in *Catalysis in Ionic Liquids: From Catalysts Synthesis to Application*; Hardacre, C.; Parvulescu, V. (Eds.) Series 15; Royal Society of Chemistry: Cambridge, 2014; pp 1-19.
750. Wang, H.; Gurau, G.; Pingali, S. V.; O'Neill, H. M.; Evans, B. R.; Urban, V. S.; Heller, W. T.; Rogers, R. D. "Physical insight into switchgrass dissolution in the ionic liquid 1-ethyl-3-methylimidazolium acetate" *ACS Sustainable Chem. Eng.* **2014**, *2*, 1264-1269. DOI: 10.1021/sc500088w
751. Wang, H.; Gurau, G.; Rogers, R. D. "Dissolution of biomass using ionic liquids," in *Structures and Interactions of Ionic Liquids*, Zhang, S.; Wang, l.; Lu X.; Zhou, Q., Eds., Springer-Verlag: Berlin Heidelberg, 2014; Ch. 3 pp 79-106; Structure and Bonding 151. DOI: 10.1007/978-3-642-38619-0_3.
752. Wang, H.; Gurau, G.; Shamshina, J. L.; Cojocaru, O. A.; Janikowski, J.; MacFarlane, D. R.; Davis, J. H. Jr.; Rogers, R. D "Simultaneous Membrane Transport of Two Active Pharmaceutical Ingredients by Charge Assisted Hydrogen Bond Complex Formation," *Chem. Sci.* **2014**, *5*, 3449-3456. DOI: 10.1039/c4sc01036a.
753. Wang, H.; Pereira, J. F. B.; Myerson, A. S.; Rogers, R. D. "Double Salt Ionic Liquids Prepared by Mixing Partially Miscible Ionic Liquids: Tuning the Solubility of Lipophilic Molecules," *ECS Trans.* **2014**, *64*, 33-44. DOI: 10.1149/06404.0033ecst
754. Xie, F.; Flanagan, B.; Li, M.; Sangwan, P.; Truss, R.; Halley, P.; Strounina, E.; Whittaker, A.; Gidley, M.; Dean, K.; Shamshina, J.; Rogers, R. D. McNally, T. "Characteristics of starch-based films plasticised by glycerol and by the ionic liquid 1-ethyl-3-methylimidazolium acetate: a comparative study," *Carbohydrate Polymers* **2014**, *111*, 841–848. DOI: 10.1016/j.carbpol.2014.05.058.
755. Dilip, M.; Bridges, N. J.; Rodríguez, H.; Pereira, J. F. B.; Rogers, R. D. "Effect of Temperature on Salt-Salt Aqueous Biphasic Systems: Manifestations of Upper Critical Solution Temperature," *J. Solution Chem.* **2015**, *44*, 454-468. DOI: 10.1007/s10953-014-0278-9
756. Kelley, S. P.; Rogers, R. D. "A Practical Overview of Organic Synthesis in Ionic Liquids," *Aldrichim. Acta* **2015**, *48*, e1-e2; http://www.sigmaaldrich.com/content/dam/sigma-aldrich/docs/Aldrich/Brochure/1/acta-48-1.pdf (Last accessed March 20, 2015).
757. Kelley, S. P.; Rogers, R. D. "Isolation of Uranyl Dicyanamide Complexes from N-Donor Ionic Liquids," *Inorg. Chem.* **2015**, *54*, 10323-10334. DOI: 10.1021/acs.inorgchem.5b01699.
758. Kelley, S. P.; Nuss, J. S.; Rogers, R. D. "Nonstoichiometric, Protic Azolium Azolate Ionic Liquids Provide Unique Environments for N-Donor Coordination Chemistry," *Chem.-Eur. J.* **2015**, *21*, 17196-17199. DOI: 10.1002/chem.201503914.
759. Ludwig, T.; Guo, L.; McCrary, P.; Zhang, Z.; Gordon, H.; Quan, H.; Stanton, M.; Frazier, R.; Rogers, R. D.; Wang, H.-T.; Turner, C. H. "Mechanism of Bismuth Telluride Exfoliation in an Ionic Liquid Solvent," *Langmuir* **2015**, *31*, 3644-3652. DOI: 10.1021/acs.langmuir.5b00239.
760. Meany, J. E., Kelley, S. P., Metzger, R. M., Rogers, R. D.; Woski, S. A. "4,4'-Dibromo-2',5'-dimethoxy-[1,1'-biphenyl]-2,5-dione (BrHBQBr)," *Acta Crystallogr. E* **2015**. *E71*, 1454-1456. DOI: 10.1107/S2056989015020472.
761. Moore, J. N.; Laskay, N. M.; Duque, K. S.; Kelley, S. P.; Rogers, R. D. "Synthesis of 4-sulfonatobenzylphosphines and their application in aqueous-phase palladium-catalyzed cross coupling." *J. Organomet. Chem.* **2015**, *777*, 16-24. DOI: 10.106/j.jorganchem.2014.11.011.
762. Pereira, J. F. B.; Kurnia, K. A.; Freire, M. G.; Coutinho, J. A. P.; Rogers, R. D. "Controlling the Formation of Ionic-Liquid-based Aqueous Biphasic Systems by Changing the Hydrogen Bonding Ability of Polyethylene Glycol End Groups," *ChemPhysChem* **2015**, *16*, 2219-2225. DOI: 10.1002/cphc.201500146.
763. Pernak, J.; Niemczak, M.; Shamshina, J.; Gurau, G.; Głowacki, G.; Praczyk, T.; Marcinkowska, K.; Rogers, R. D. "Metsulfuron-Methyl-Based Herbicidal Ionic Liquids," *J. Agric. Food Chem*. **2015**, *63*, 3357-3366. DOI: 10.1021/jf505782p.
764. Shadid, M.; Gurau, G.; Shamshina, J. L.; Chuang, B.-C.; Hailu, S.; Guan, E.; Chowdhury, S. K.; Wu, J.-T.; Rizvi, S. A. A.; Griffin, R. J.; Rogers, R. D. "Sulfasalazine in ionic liquid form with improved solubility and exposure," *MedChemComm* **2015**, *6*, 1837-1841. DOI: 10.1039/c5md00290g.
765. Shamshina, J. L.; Kelley, S. P.; Gurau, G.; Rogers, R. D. "Develop ionic liquid drugs," *Nature* **2015**, *528*, 188-189. DOI: 10.1038/528188a.
766. Tadros, A. M.; Rokyo, M. M.; Kelley, S. P.; Belmore, K.; Rogers, R. D.; Vincent, J. B. "Aminopyridine complexes of Cr(III) basic carboxylates as potential polymer precursors: Synthesis, characterization, and crystal structure of $[Cr_3O(propionate)_6(X\text{-aminopyridine})_3]^+$ (X = 3 or 4)," *Polyhedron* **2015**, *100*, 17-27. DOI: 10.1016/j.poly.2015.07.007.

767. Wang, H.; Kelley, S. P.; Brantley III, J. W.; Chatel, G.; Shamshina, J.; Pereira, J. F. B.; Debbeti, V.; Myerson, A. S.; Rogers, R. D. "Ionic fluids containing both strongly and weakly interacting ions of the same charge have unique ionic and chemical environments as a function of ion concentration," *ChemPhysChem* **2015**, *16*, 993-1002. DOI: 10.1002/cphc.201402894.
768. Weber, Cameron C.; Kulkarni, Samir A.; Kunov-Kruse, Andreas J.; Rogers, Robin D.; Myerson, Allan S. "The use of cooling crystallization in an ionic liquid system for the purification of pharmaceuticals," *Cryst. Growth Des.* **2015**, *15*, 4946-4951. DOI: 10.1021/acs.cgd.5b00855.
769. Weber, C. C.; Kunov-Kruse, A. J.; Rogers R. D.; Myerson, A. S. "Manipulation of ionic liquid anion-solute-antisolvent interactions for the purification of acetaminophen," *Chem. Commun.* **2015**, *51*, 4294-4297. DOI: 10.1039/C5CC00198F.
770. Xie, F.; Flanagan, B. M.; Li, M.; Truss, R. W.; Halley, P. J.; Gidley, M. J.; McNally, T.; Shamshina, J. L.; Rogers, R. D. "Characteristics of starch-based films with different amylose contents plasticised by 1-ethyl-3-methylimidazolium acetate," *Carbohydrate Polymers* **2015**, *122*, 160-168. DOI: 10.1016/j.carbpol.2014.12.072.
771. Yao, W.; Kelley, S. P.; Rogers, R. D.; Vaid, T. P. "Electrical conductivity in two mixed-valence liquids," *Phys. Chem. Chem. Phys.* **2015**, *17*, 14107-14114. DOI: 10.1039/C5CP01172H.
772. Zhang, B.; Chen, L.; Xie, F.; Li, X.; Truss, R. W.; Halley, P. J.; Shamshina, J. L.; Rogers, R. D.; McNally, T. "Understanding the structural disorganization of starch in water–ionic liquid solutions," *Phys. Chem. Chem. Phys.* **2015**, *17*, 13860-13871. DOI: 10.1039/C5CP01176K.
773. Berton, P.; Kelley, S. P.; Rogers, R. D. "Ionic Liquids for Sustainable Production of Actinides and Lanthanides," In *Metal Sustainability: Global Challenges, Consequences, and Prospects*; Izatt, R. M., Ed.; John Wiley & Sons, Ltd.: Chichester, 2016; pp 295-316.
774. Berton, P.; Kelley, S. P.; Rogers, R. D. "Stripping uranium from seawater-loaded sorbents with the ionic liquid hydroxylammonium acetate in acetic acid for efficient reuse," *Ind. Eng. Chem. Res*. **2016**, *55*, 4321–4327. DOI: 10.1021/acs.iecr.5b03996.
775. Cláudio, A. F. M.; Pereira, J. F. B.; McCrary, P. D.; Freire, M. G.; Coutinho, J. A. P.; Rogers, R. D. "A critical assessment of the mechanisms governing the formation of aqueous biphasic systems composed of protic ionic liquids and polyethylene glycol," *Phys. Chem. Chem. Phys.* **2016**, *18*, 30009-30019. DOI: 10.1039/C6CP06289J.
776. Kelley, S. P.; McCrary, P. D.; Flores, L.; Garner, E. B., III; Dixon, D. A.; Rogers, R. D. "Structural and theoretical study of salts of the $[B_9H_{14}]^-$ ion: Isolation of multiple isomers and implications for energy storage," *ChemPlusChem* **2016**, *81*, 922-925. DOI: 10.1002/cplu.201600270 (Cover Image *ChemPlusChem* **2016**, *81*, 901; Cover Profile *ChemPlusChem* **2016**, *81*, 903. DOI: 10.1002/cplu.201600379)
777. Kelley, S. P.; Nuss, J. S.; Rogers, R. D. "Using crystal structures of ionic compounds to explore complexation and extraction of rare earth elements in ionic liquids," in *Applications of Ionic Liquids on Rare Earth Green Separation and Utilization*; Chen, J., Ed.; Springer: Heidelberg, 2016; pp 21-42.
778. Kumar, A.; Wang, H.; Rogers, R. D. "Extraction of Sandalwood Oil Using Ionic Liquids: Toward a "Greener" More Efficient Process," In *Ionic Liquids for Better Separation Processes*; Rodríguez, H., Ed.; Springer-Verlag Berlin Heidelberg, 2016; Chapter 6, pp 121-133. DOI 10.1007/978-3-662-48520-0_6.
779. Meany, J. E.; Kelley, S. P.; Rogers, R. D.; Woski, S. A. "Crystal structure of 4′-bromo-2,5-dihydroxy-2′,5′-dimethoxy-[1,1′-biphenyl]-3,4-dicarbonitrile," *Acta Cryst. E. Struct. Commun.* **2016**, *72*, 667-670.
780. Pereira, J. F. B.; Deutschmann, R.; Rogers, R. D. "On the hunt for more benign and biocompatible ABS," in *Ionic-Liquid-Based Aqueous Biphasic Systems – Fundamentals and Applications*; Freire, M. G., Ed.; Springer: Heidelberg, 2016; pp 247-284.
781. Shamshina, J. L.; Barber, P. S.; Gurau, G.; Griggs, C. S.; Rogers, R. D. "Pulping of Crustacean Waste Using Ionic Liquids: To Extract or Not To Extract," *ACS Sustainable Chem. Eng.* **2016**, *4*, 6072-6081. DOI: 10.1021/acssuschemeng.6b01434
782. Shen, X.; Berton, P.; Shamshina, J.; Rogers, R. D. "Preparation and comparison of bulk and membrane hydrogels based on Kraft- and ionic-liquid-isolated lignins," *Green Chem.* **2016**, *80*, 5607-5620. DOI: 10.1039/C6GC01339B.
783. Shen, X.; Shamshina, J. L.; Berton, P.; Bandomir, J.; Wang, H.; Gurau, G.; Rogers, R. D. "Comparison of hydrogels prepared with ionic-liquid-isolated vs commercial chitin and cellulose," *ACS Sustainable Chem. Eng.*, **2016**, 4, 471-480. DOI: 10.1021/acssuschemeng.5b01400.
784. Shen, X.; Shamshina, J. L.; Berton, P.; Gurau, G.; Rogers, R. D. "Hydrogels based on cellulose and chitin: fabrication, properties, and applications," *Green Chem.* **2016**, *18*, 53-75. DOI: 10.1039/C5GC02396C.
785. Wang, H.; Berton, P.; Myerson, A. S.; Rogers, R. D. "Double Salt Ionic Liquids Containing the Trihexyl(tetradecyl)phosphonium Cation: The Ability to Tune the Solubility of Aromatics, Ethers, and Lipophilic Compounds," *ECS Trans.* **2016**, *75*, 451-465. DOI: 10.1149/07515.0451ecst.
786. Zhang, B.; Xie, F.; Zhang, T.; Chen, L.; Li, X.; Truss, R. W.; Halley, P. J.; Shamshina, J. L.; McNally, T.; Rogers, R. D. "Different characteristic effects of ageing on starch-based films plasticised by 1-ethyl-3-methylimidazolium acetate and by glycerol," *Carbohydrate Polymers* **2016**, *146*, 67-79.
787. Berton, P.; Bica, K.; Rogers, R. D. "Ionic liquids for consumer products: Dissolution, characterization, and controlled release of fragrance compositions," *Fluid Phase Equilibr.* **2017**, *450*, 51-56. **DOI:** 10.1016/j.fluid.2017.07.011.
788. Berton, P.; Di Bona, K. R.; Yancey, D.; Rizvi, S. A. A.; Gray, M.; Gurau, G.; Shamshina, J. L.; Rasco, J. F.; Rogers, R. D. "Transdermal bioavailability in rats of lidocaine in the forms of ionic liquids, salts, and deep eutectic," *ACS Med. Chem. Lett.*, **2017**, *8*, 498-503. **DOI:** 10.1021/acsmedchemlett.6b00504.
789. Berton, P.; Kelley, S. P.; Wang, H.; Myerson, A. S.; Rogers, R. D. "Separate mechanisms of ion oligomerization tune the physicochemical properties of n-butylammonium acetate: Cation-base clusters vs. anion-acid dimers," *Phys. Chem. Chem. Phys.*, **2017**, *19*, 25544-25554. DOI: 10.1039/C7CP04078D.

790. Berton, P., Shamshina, J. L., Rogers, R. D. "Ionic Liquids for Sustainable Chemical Processes," In *Encyclopedia of Sustainable Technologies*, Abraham, M. A. (Ed.); 1st Ed., Elsevier: Amsterdam, Vol. 3; pp. 645–651. ISBN: 9780128046777. **DOI:** 10.1016/B978-0-12-409548-9.10251-9.
791. Choudhary, H.; Pernak, J.; Shamshina, J. L.; Niemczak, M.; Giszter, R.; Chrzanowski, Ł.; Praczyk, T.; Marcinkowska, K.; Cojocaru, O. A.; Rogers, R. D. "Two Herbicides in a Single Compound: Double Salt Herbicidal Ionic Liquids Exemplified with Glyphosate, Dicamba, and MCPA," *ACS Sustainable Chem. Eng.* **2017**, *5*, 6261−6273. DOI: 10.1021/acssuschemeng.7b01224.
792. Ferreira, A. M.; Cláudio, A. F. M.; Válega, M.; Domingues, F. M. J.; Silvestre, A. J. D.; Rogers, R. D.; Coutinho, J. A. P.; Freire, M. G. "Switchable (pH-driven) aqueous biphasic systems formed by ionic liquids as integrated production–separation platforms," *Green Chem*. **2017**, *19*, 2768-2773. **DOI:** 10.1039/c7gc00157f
793. Kelley, S. P.; Flores, L. A.; Shannon, M. S.; Bara, J. E.; Rogers, R. D. "Understanding carbon dioxide solubility in ionic liquids by exploring the link with liquid clathrate formation." *Chem. Eur. J.* **2017**, *23*, 14332-14337. **DOI:** 10.1002/chem.201703117.
794. King, C.; Shamshina, J.; Gurau, G.; Berton, P.; Khan, N. F. A. F.; Rogers, R. D. "A platform for more sustainable chitin films from an ionic liquid process," *Green Chem*. **2017**, 19, 117-126. DOI: 10.1039/C6GC02201D.
795. King, C.; Shamshina, J.; Zavgorodnya, O.; Cutfield, T.; Block, L. E.; Rogers, R. D. "Porous Chitin Microbeads for More Sustainable Cosmetics," *ACS Sustainable Chem. Eng*. **2017**, *5*, 11660-11667. DOI: 10.1021/acssuschemeng.7b03053.
796. King, C.; Stein, R. S.; Shamshina, J. L.; Rogers, R. D. "Measuring the Purity of Chitin with a Clean, Quantitative Solid-State NMR Method," *ACS Sustainable Chem. Eng*. **2017**, *5*, 8011-8016. DOI: 10.1021/acssuschemeng.7b01589
797. Kore, R.; Berton, P.; Kelley, S. P.; Aduri, P.; Katti, S. S.; Rogers, R. D. "Group IIIA Halometallate Ionic Liquids: Speciation and Applications in Catalysis," *ACS Catal.* **2017**, *7*, 7014-7028.
798. Kunov-Kruse, A. J.; Weber, C. C.; Rogers, R. D.; Myerson, A. S. "The A Priori Design and Selection of Ionic Liquids as Solvents for Active Pharmaceutical Ingredients," *Chem. Eur. J.* **2017**, *23*, 5498-5508. **DOI:** 10.1002/chem.201605704 (Designated a Hot Article).
799. Moody, M. L.; Huddleston, J. G.; Berton, P.; Zhang, J.; Rogers, R. D. "The effects of pH on the partitioning of aromatic acids in a polyethylene glycol/dextran aqueous biphasic system," *Sep. Sci. Technol.* **2017**, *52*, 843-851. DOI: 10.1080/01496395.2016.1269809.
800. Mouhri, Z. S.; Goodfellow, E.; Kelley, S. P.; Stein, R. S.; Rogers, R. D.; Jean-Claude, B. J. "^{15}N-, ^{13}C-, and ^{1}H-NMR Spectroscopy Characterization and Growth Inhibitory Potency of a Combi-Molecule Synthesized by Acetylation of an Unstable Monoalkyltriazene." *Molecules* **2017**, *22*, 1183 (13 pp); **DOI:** 10.3390/molecules22071183.
801. Passos, H.; Costa, S. H.; Fernandes, A. M.; Freire, M. G.; Rogers, R. D.; Coutinho, J. A. P. "A Triple Salting-Out Effect is Required for the Formation of Ionic-Liquid-Based Aqueous Multiphase Systems," *Angew. Chem. Int. Ed.* **2017**, *56*, 15058-15062. DOI: 10.1002/anie.201705704.
802. Patil, Y. P.; Kore, R.; Kelley, S. P; Griffin, S. T.; Rogers, R. D. "Crystal structure of $Zn(ZnCl_4)_2(Cho)_2$: The transformation of ions to neutral species in a deep eutectic system." *Chem. Commun.* **2017** *53*, 5449-5492. **DOI:** 10.1039/C7CC01754E.
803. Pereira, J. F. B.; Barber, P. S.; Kelley, S. P.; Berton, P.; Rogers, R. D. "Double Salt Ionic Liquids Based on 1-Ethyl-3-Methylimidazolium Acetate and Hydroxyl-Functionalized Ammonium Acetates: Strong Effects of Weak Interactions," *Phys. Chem. Chem. Phys.*, **2017**, *19*, 26934-26943. DOI: 10.1039/c7cp05710e.
804. Rachiero, G. P.; Titi, H. M.; Rogers, R. D. "Versatility and remarkable hypergolicity of *exo*-6-*exo*-9 imidazole substituted *nido*-decaborane." *Chem. Commun.* **2017**, *53*, 7736-7739. **DOI:** 10.1039/c7cc03322b.
805. Shamshina, J. L.; Cojocaru, O. A.; Kelley, S. P.; Bica, K.; Wallace, S. P.; Gurau, G.; Rogers, R. D. "Acyclovir as an Ionic Liquid Cation or Anion Can Improve Aqueous Solubility," *ACS Omega* **2017**, *2*, 3483–3493. DOI: 10.1021/acsomega.7b00554.
806. Shamshina, J. L.; Zavgorodnya, O.; Bonner, J. R.; Gurau, G.; Di Nardo, T.; Rogers, R. D. ""Practical" Electrospinning of Biopolymers in Ionic Liquids" *ChemSusChem* **2017**, *10*, 106-111. DOI: 10.1002/cssc.201601372
807. e Silva, F. A.; Pereira, J. F. B.; Kurnia, K. A.; Ventura, S. P. M.; Silva, A. M. S.; Rogers, R. D.; Coutinho, J. A. P.; Freire, M. G. "Temperature dependency of aqueous biphasic systems: an alternative approach for exploring the differences between Coulombic-dominated salts and ionic liquids," *Chem. Commun.* **2017**, *53,* 7298. **DOI:** 10.1039/c7cc02294h
808. Sun, J.; Shi; J.; Murthy Konda, N. V. S. N.; Campos, D.; Liu, D.; Nemser, S.; Shamshina, J.; Dutta, T.; Berton, P.; Gurau, G.; Rogers, R. D.; Simmons, B. A.; Singh, S. "Efficient dehydration and recovery of ionic liquid after lignocellulosic processing using pervaporation," *Biotech. Biofuels*, **2017**, 10:154 (14 pp). **DOI:** 10.1186/s13068-017-0842-9.
809. Titi, H. M.; Kelley, S. P.; Easton, M. A.; Emerson, S. D.; Rogers, R. D. "Formation of ionic co-crystals of amphoteric azoles directed by the ionic liquid co-former 1-ethyl-3-methylimidazolium acetate," *Chem. Commun.* **2017**, *53*, 8569-8572. **DOI:** 10.1039/C7CC04429A.
810. Vaid, T. P.; Easton, M. E.; Rogers, R. D. "Polythianthrene ladder oligomers function as an organic battery electrode with a high oxidation potential," *Synthetic Metals* **2017**, *231*, 44-50. DOI: 10.1016/j.synthmet.2017.06.011
811. Vaid, T. P.; Kelley, S. P.; Rogers, R. D. "Metal Complexes Formed Through the Capture of Ambient O_2 and CO_2 by Elemental Metals in 1-Methylimidazole: Molecular $Cu(CO_3)(MeIm)_3$ and polymeric $M(CO_3)(MeIm)_2{\cdot}2H_2O$ (M = Co, Zn)." *Dalton Trans.* **2017***, 46*, 8920-8923. **DOI:** 10.1039/C7DT01787A.
812. Vaid, T. P.; Kelley, S. P.; Rogers, R. D. "Structure-directing effects of ionic liquids in the ionothermal synthesis of metal-organic frameworks," *IUCrJ* **2017**, *4*, 380-392. **DOI:** 10.1107/S2052252517008326.
813. Zavgorodnya, O.; Shamshina, J. L.; Berton, P.; Rogers, R. D. "Translational Research from Academia to Industry: Following the Pathway of George Washington Carver," In *Ionic Liquids: Current State and Future Directions*, Shiflett, M. B.; Scurto, A. M. (Eds.); ACS Symposium Series 1250; American Chemical Society: Washington, DC, 2017; pp 17-33.
814. Zavgorodnya, O.; Shamshina, J. L.; Bonner, J. R.; Rogers, R. D. "Electrospinning Biopolymers from Ionic Liquids Requires

Control of Different Solution Properties than Volatile Organic Solvents," *ACS Sustainable Chem. Eng.* **2017**, *5*, 5512−5519. DOI: 10.1021/acssuschemeng.7b00863.
815. Zavgorodnya, O.; Shamshina, J. L.; Mittenthal, M.; McCrary, P. D.; Rachiero, G. P.; Titi, H. M.; Rogers, R. D. "Polyethylene Glycol Derivatization of the Non-Active Ion in Active Pharmaceutical Ingredient Ionic Liquids Enhances Transdermal Delivery," *New. J. Chem*. **2017**, *41*, 1499-1508. DOI: 10.1039/C6NJ03709G.
816. Zhang, B.; Xie, F.; Shamshina, J. L.; Rogers, R. D.; McNally, T.; Halley, P. J.; Truss, R. W.; Chen, L.; Zhao, S. "Dissolution of Starch with Aqueous Ionic Liquid under Ambient Conditions," *ACS Sustainable Chem. Eng*. **2017**, *5*, 3737-3741. **DOI:** 10.1021/acssuschemeng.7b00784.
817. Zhang, B.; Xie, F.; Shamshina, J. L.; Rogers, R. D.; McNally, T.; Wang, D.; Halley, P. J.; Truss, R. W.; Zhao, S.; Ling, C. "Facile preparation of starch-based electroconductive films with ionic liquid," *ACS Sustainable Chem. Eng*., **2017**, *5*, 5457-5467, DOI: 10.1021/acssuschemeng.7b00788.
818. Ahmadi, Z.; Berton, P.; He, Y.; Rogers, R. D.; Bryant, S. L. (2018) "Effective dewatering of fluid fine tailings (FFTs) by ionic liquids," In *Proceedings of the Sixth International Oil Sands Tailings Conference*, Beier, N. A.; Wilson, G. W.; Sego, D. C. (Eds.); University of Alberta, Edmonton, Alberta, Canada, 2018, pp. 2-7. ISBN 978-55195-426-4.
819. Belchior, D. C. V.; Sintra, T. E.; Carvalho, P. J.; Soromenho, M. R. C.; Esperança, J. M. S. S.; Ventura, S. P. M.; Rogers, R. D.; Coutinho, J. A. P.; Freire, M. G. "Odd-even effect on the formation of aqueous biphasic systems formed by 1-alkyl-3-methylimidazolium chloride ionic liquids and salts," *J. Chem. Phys.* **2018**, *148*, No. 193842/1-7, DOI: 10.1063/1.5012020.
820. Berton, P.; Kelley, S. K.; Wang, H.; Rogers, R. D. "Elucidating the triethylammonium acetate system: Is it molecular or is it ionic?" *J. Mol. Liq.* **2018**, *269*, 126-131. **DOI:** 10.1016/j.molliq.2018.08.006
821. Berton, P.; Shamshina, J.L.; Bica, K.; Rogers, R.D. "Ionic Liquids as fragrance precursors: Smart delivery systems for volatile compounds," *Ind. Eng. Chem. Res*. **2018**, 57, 16069-16076. DOI: 10.1021/acs.iecr.8b02903.
822. Berton, P.; Shamshina, J. L.; Ostadjoo, S.; King, C. A.; Rogers, R. D. "Enzymatic Hydrolysis of Ionic Liquid-Extracted Chitin," *Carbohydrate Polymers* **2018**, *199*, 228-235. DOI: 10.1016/j.carbpol.2018.07.014.
823. Berton, P.; Shen, X.; Rogers, R. D.; Shamshina, J. L. "110th Anniversary: High-Molecular-Weight Chitin and Cellulose Hydrogels from Biomass in Ionic Liquids without Chemical Crosslinking," *Ind. Eng. Chem. Res.* **2019**, *58*, 19862-19876. DOI: 10.1021/acs.iecr.9b03078.
824. Choudhary, H.; Berton, P.; Gurau, G.; Myerson, A. S.; Rogers, R. D. "Ionic Liquids in Cross-Coupling Reactions: "Liquid" Solutions to a "Solid" Precipitation Problem," *Chem. Commun.* **2018**, 54, 2056-2059. DOI: 10.1039/C7CC09635F.
825. Cui, X.; Li, K.; Choudhary, H.; Shamshina, J. L.; Rogers, R. D. "Double salt ionic liquids for lignin hydrolysis: one cation for catalyst and solvent anions," *ECS Transactions* **2018**, *86* (14, Molten Salts and Ionic Liquids 21), 215-229. DOI: 10.1149/08614.0215ecst.
826. Julien, P.A.; Christopherson, J.-C.; Titi, H. M.; Rogers, R. D. Friščić, T. "Investigation of BINOL-3,3′-dicarboxylate as a ligand for the formation of extended coordination-based structures," *Supramol. Chem.* **2018**, *30*, 488-503. **DOI:** 10.1080/10610278.2018.1430366
827. Kelley, S. P.; Berton, P.; Metlen, A.; Rogers, R. D. "Polyoxometalate catalysts for biomass dissolution: understanding and design," *Physical Sciences Reviews* **2018**, *3.* DOI: 10.1515/psr-2017-0190; Also in *Green Chemistry in Industry*, Benvenuto, M. A.; Plaumann, H. (Eds.), Vol. 3 of *Green Chemical Processing*, De Gruyter: Berlin, 2018; Ch. 3, pp 23-41. ISBN 978-3-11-056113-5. DOI: 10.1515/9783110562781-003.
828. Kelley, S. P.; Rachiero, G. P.; Titi, H. M.; Rogers, R. D. "New Reactions for Old Ions: Cage Rearrangements, Hydrolysis, and Two-Electron Reduction of nido-Decaborane in Neat 1-Ethyl-3-Methylimidazolium Acetate," *ACS Omega* **2018**, *3*, 8491-8496. DOI: 10.1021/acsomega.8b00775.
829. Kelley, S. P.; Rogers, R. D. "Lanthanide complexes with zwitterionic amidoximes stabilized by noncoordinating water molecules," *Supramol. Chem.* **2018**, *30*, 411-417. DOI: 10.1080/10610278.2017.1405002https://doi.org/10.1080/10610278.2017.1405002.
830. Kore, R.; Kelley, S. P.; Aduri, P.; Rogers, R. D. "Mixed Metal Double Salt Ionic Liquids Comprised of $[HN_{222}]_2[ZnCl_4]$ and $AlCl_3$ Provide Tunable Lewis Acid Catalyst Related to the Ionic Environment," *Dalton Trans.* **2018**, ***47***, 7795-7803. DOI: 10.1039/C8DT00976G.
831. Li, K.; Berton, P.; Kelley, S. P.; Rogers, R. D. "Singlet Oxygen Production and Tunable Optical Properties of Deacetylated Chitin-Porphyrin Crosslinked Films," *Biomacromolecules* **2018**, *19*, 3291-3300. DOI: 10.1021/acs.biomac.8b00605.
832. Li, K.; Choudhary, H.; Rogers, R. D. "Ionic Liquids for Sustainable Processes: Liquid Metal Catalysis," *Curr. Opin. Green Sustain. Chem.* **2018**, *11*, 15-21.
833. Li, K.; Titi, H. M.; Berton, P.; Rogers, R. D. "Porphyrinic ionic liquid dyes: Synthesis and characterization," *ChemistryOpen* **2018**, *7*, 659-663. DOI: 10.1002/open.201800166.
834. Lin, N.; Berton, P.; Moraes, C.; Rogers, R. D.; Tufenkji, N. "Nanodarts, nanoblades, and nanospikes: Mechno-bactericidal nanostructures and where to find them" *Adv. Colloid Interface Sci.* **2018**, *252*, 55-68. DOI: 10.1016/j.cis.2017.12.007.
835. Mishra, M. K.; Kelley, S. P.; Shamshina, J. L.; Choudhary, H.; Rogers, R. D. "Can melting point trends help us develop new tools to control the crystal packing of weakly interacting ions?," *Cryst. Growth Des*. **2018**, *18*, 597-601. DOI: 10.1021/acs.cgd.7b01680
836. Mukherjee, A.; Rogers, R. D.; Myerson, A. S. "Cocrystal formation by ionic liquid-assisted grinding: case study with cocrystals of caffeine," *CrystEngComm* **2018**, *20*, 3817-3821. DOI: 10.1039/c8ce00859k.
837. Ostadjoo, S.; Berton, P.; Shamshina, J. L.; Rogers, R. D. "Scaling-up ionic liquid-based technologies: How much do we care about their toxicity? *Prima facie* information on 1-ethyl-3-methylimidazolium acetate" *Toxicol. Sci.* **2018**, *161*, 249-265. DOI: 10.1093/toxsci/kfx172.

838. Rogers, R. D.; Gurau, G. "Is 'choline and geranate' an ionic liquid or deep eutectic solvent system?" *Proc. Natl. Acad. Sci.* **2018**, *115*, E10999. DOI: 10.1073/pnas.1814976115.
839. Sebesta, D. P.; Vagle, K.; Rachiero, G. P.; Rogers, R. D. "4,5-Dicyanoimidazole" in *Encyclopedia of Reagents for Organic Synthesis*, John Wiley & Sons Ltd., Chichester, 2018, http://onlinelibrary.wiley.com/book/10.1002/047084289X (Last Access Date: 03-24-18). DOI: 10.1002/047084289X.rn00166.pub2
840. Shamshina, J. L.; Berton, P. Wang, H.; Zhou, X. S., Gurau, G.; Rogers, R. D. "Ionic liquids in pharmaceutical industry," in *Green Techniques for Organic Synthesis and Medicinal Chemistry*, Zhang, W.; Cue, B. W., Jr. (Eds.), 2nd Edition, JohnWiley & Sons Ltd.: Oxford, 2018; Ch. 20, pp 541-577. ISBN 9781119288176.
841. Shamshina, J. L.; Rogers, R. D. "Biopolymeric Microbeads as Alternatives to Synthetic Plastics," *Household & Personal Care Today*, **2018**, *13*, 9-12.
842. Shamshina, J. L.; Zavgorodnya, O.; Berton, P.; Chhotaray, P. K.; Choudhary, H.; Rogers, R. D. "Ionic Liquid Platform for Spinning Composite Chitin-Poly(lactic acid) Fibers," *ACS Sustainable Chem. Eng*. **2018**, *6*, 10241-10251. DOI: 10.1021/acssuschemeng.8b01554.
843. Shamshina, J. L.; Zavgorodnya, O.; Choudhary, H.; Frye, B.; Newbury, N.; Rogers, Robin D. "In Search of Stronger/Cheaper Chitin Nanofibers through Electrospinning of Chitin-Cellulose Composites Using an Ionic Liquid Platform," *ACS Sustainable Chem. Eng*. **2018**, *6*, 14713-14722. DOI: 10.1021/acssuschemeng.8b03269.
844. Tian, H.; Berton, P.; Rogers, R.D. "Aqueous biphasic systems comprised of random ethylene/propylene oxide copolymers, choline acetate, and water for triazine-based herbicide partitioning study," *Solvent Extr. Ion Exch.* **2018**, *38*, 602-616. DOI: 10.1080/07366299.2018.1546800.
845. Yu, J.; Jensen, T. N.; Lewis, W. K.; Bunker, C. E.; Kelley, S. P.; Rogers, R. D.; Pryor, O. M.; Chambreau, S. D.; Vaghjiani, G. L.; Anderson, S. L. "Combustion Behavior of High Energy Density Borane-Aluminum Nanoparticles in Hypergolic Ionic Liquids," *Energy & Fuels* **2018**, *32*, 7898-7908. DOI: 10.1021/acs.energyfuels.8b01334
846. Zeng, Q.; Mukherjee, A.; Müller, P.; Rogers, R. D.; Myerson, A. S. "Exploring the role of ionic liquids to tune the polymorphic outcome of organic compounds," *Chem. Sci.* **2018**, *9*, 1510-1520. DOI: 10.1039/c7sc04353h.
847. Abdelfatah, E.; Berton, P.; Rogers, R.D.; Bryant, S.L. "Low-temperature bitumen recovery from oil sand reservoirs using ionic liquids," *Soc. Pet. Eng. J.* **2019**, *24*, 2409-2422. DOI: 10.2118/197070-PA.
848. Berton, P.; Kelley, S. P.; Adesina, A. O.; Rogers, R. D. "In Search of Locally Produced Arsenic Sorbents via Impregnation of Cotton with Magnetite Nanoparticles Using Choline Acetate," *Adv. Sustainable Syst.* **2019**, *3*, 1800170 (1-4). DOI: 10.1002/adsu.201800170.
849. Berton, P.; Kelley, S. P.; Bridges, N. J.; Klingshirn, M. A.; Huddleston, J. G.; Willauer, H. D.; Baldwin, J. W.; Moody, M. L.; Rogers, R. D. "Water in Solutions of Chaotropic and Kosmotropic Salts: A Differential Scanning Calorimetry Investigation," *J. Chem. Eng. Data* **2019**, *64*, 4781-4792. DOI: 10.1021/acs.jced.9b00222.
850. Berton, P.; Mishra, M. K.; Choudhary, H.; Myerson, A. S.; Rogers, R. D. "Solubility Studies of Cyclosporine Using Ionic Liquids," *ACS Omega* **2019**, *4*, 7938-7943. DOI: 10.1021/acsomega.9b00603.
851. Berton, P.; Shen, X.; Rogers, R. D.; Shamshina, J. L., "*110th Anniversary:* High-Molecular-Weight-Chitin and Cellulose Hydrogels from Biomass in Ionic Liquids without Chemical Crosslinking," *Ind. Eng. Chem. Res*. **2019**, *58*, 19862-19876. DOI: 10.1021/acs.iecr.9b03078.
852. Choudhary, H.; Li, K.; Rogers, R. D. "Active Pharmaceutical Ingredient Ionic Liquid: A New Platform for the Pharmaceutical Industry," In *Encyclopedia of Ionic Liquids*, Zhang, S. (Ed.); Springer Nature: Singapore, 2019, pp 1-14. ISBN 978-981-10-6739-6. DOI: 10.1007/978-981-10-6739-6_3-1.
853. Delgado-Mellado, N.; García, J.; Rodríguez, F.; Rogers, R. D. "Insights into Ionic Liquid/Aromatic Systems from NMR Spectroscopy: How Water Affects Solubility and Intermolecular Interactions," *ChemPlusChem*. **2019**, *84*, 872-881. DOI: 10.1002/cplu.201900192.
854. Easton, M. E.; Choudhary, H.; Rogers, R. D. "Azolate Anions in Ionic Liquids: Promising and Under-utilized Components of the Ionic Liquid Toolbox," *Chem. Eur. J.* **2019**, *25*, 2127-2140. DOI: 10.1002/chem.201802957.
855. Li, K.; Choudhary, .H.; Mishra, M. K.; Rogers, R. D. "Enhanced Acidity and Activity of Aluminum/Gallium-Based Ionic Liquids Resulting from Dynamic Anionic Speciation," *ACS Catal.*, **2019**, *9*, 9789-9793. DOI 10.1021/acscatal.9b03132.
856. Mishra, M. K.; Choudhary, H.; Cordes, D. B.; Kelley, S. P.; Rogers, R. D. "Structural Diversity in Tetrakis(4-pyridyl)porphyrin Supramolecular Building Blocks," *Cryst. Growth Des.* **2019**, *19*, 3529-3542. DOI: 10/1021/acs.cgd.9b00399.
857. Mishra, M. K.; Kelley, S. P.;Dilip, M.; Vaid, T. P.; Cordes, D. B.; Griffin, S. T.; Rogers, R. D. "Insights into the Behavior of Highly Acidic Metal Cations in Ionic Liquids from Reactions of Titanium Tetrachloride with [1-Butyl-3 Methylimidazolium][X] Ionic Liquids (X = Chloride, Bromide, Tetrafluoroborate)" *Inorg. Chem*. **2019**, *58*, 1764-1773. DOI: 10.1021/acs.inorgchem.8b00524.
858. Mishra, M. K.; Patil, Y. P.; Kelley, S. P.; Rogers, R. D. "A Uranyl Metal Organic Framework Arising from the Coordination of a Partially Hydrolyzed Tetrauranyl Node with the Tautomerically Diverse 1,4-(Diamidoximyl)benzene Ligand," *Cryst. Growth Des.* **2019**, *19*, 5466-5470. DOI: 10/1021/acs.cgd.9b00544.
859. Shamshina, J. L.; Berton, P.; Rogers, R. D. "Advances in Functional Chitin Materials: A Review," *ACS Sustainable Chem. Eng*. **2019**, *7*, 6444-6457. **DOI:** 10.1021/acssuschemeng.8b06372.
860. Shamshina, J. L.; Berton, P.; Rogers, R. D. "Chitin as a Resource for EcoFriendly Bioplastics," In *Encyclopedia of Ionic Liquids*, Zhang, S. (Ed.); Springer Nature: Singapore, 2019, pp 1-8. ISBN 978-981-10-6739-6. DOI: 10.1007/978-981-10-6739-6_43-1.

861. Shamshina J. L., Oldham (Konak) T., Rogers R. D. "Applications of Chitin in Agriculture," In *Sustainable Agriculture Reviews 36: Chitin and Chitosan: Applications in Food, Agriculture, Pharmacy, Medicine and Wastewater Treatment*; Crini G., Lichtfouse E. (Eds.); Springer Nature: Cham, Switzerland, 2019; pp. 125-146. DOI: 10.1007/978-3-030-16581-9_4.
862. Shamshina, J. L.; Rogers, R. D. "Recent Advances in the Electrospinning of Biopolymers," In *Green Electrospinning*, Horzum, N.; Demir, M. M.; Muñoz-Espí, R.; Crespy, D. (Eds.); De Gruyter: Berlin, 2019; Ch. 8, pp 189-216. DOI: 10.1515/9783110581393-008
863. Shamshina J. L; Zavgorodnya O.; Rogers R. D. "Advances in Processing Chitin as a Promising Biomaterial from Ionic Liquids," In *Advances in Biochemical Engineering/Biotechnology*; Scheper, T. (Ed.), *Applications of Ionic Liquids in Biotechnology*, Itoh T.; Koo Y. M. (Eds.); Springer Nature: Cham, Switzerland, 2019; Vol. 168, pp 177-198. DOI: 10.1007/10_2018_63.
864. Shamshina, J. L.; Zavgorodnya, O.; Rogers, R. D. "Ionic Liquids," In *Encyclopedia of Analytical Science*, Worsfold, P.; Poole, C.; Townshend, A.; Miró, M. (Eds.); 3rd Ed., Elsevier: Amsterdam, 2019, Vol. 3, pp 218–225. DOI: 10.1016/B978-0-12-409547-2.13931-9.
865. Shen, X.; Xie, Y.; Wang, Q.; Yi, X.; Shamshina, J. L.; Rogers R. D. "Enhanced heavy metal adsorption ability of lignocellulosic hydrogel adsorbents by the structural support effect of lignin, *Cellulose* **2019**, *26*, 4005-4019. DOI: 10.1007/s10570-019-02328-w.
866. Tian, H.; Berton, P.; Rogers, R.D. "Choline-based aqueous biphasic systems: Overview of applications," *Fluid Phase Equilib.* **2019**, *502*, 112258 (13 pp). DOI: 10.1016/j.fluid.2019.112258.
867. Titi, H. M.; Arhangelskis, M.; Katsenis, A. D.; Mottillo, C.; Ayoub, G.; Do, J.-L.; Fidelli, A. M.; Rogers, R. D.; Friščič , T. "Metal−Organic Frameworks as Fuels for Advanced Applications: Evaluating and Modifying the Combustion Energy of Popular MOFs," *Chem. Mater.* **2019**, *31*, 4882-4888. DOI: 10.1021/acs.chemmater.9b01488
868. Titi, H. M.; Arhangelskis, M.; Rachiero, G. P.; Friščič, T.; Rogers, R. D. "Hypergolic Triggers as Co-crystal Formers:Co-crystallization for Creating New Hypergolic Materials with Tunable Energy Content," *Angew. Chem. Int. Ed.* **2019**, *58*, 18399–18404. DOI: 10.1002/anie.201908690.
869. Titi, H. M.; Marrett, J. M.; Dayaker, G.; Arhangelskis, M.; Mottillo, C.; Morris, A. J.; Rachiero, G. P.; Friščić, T.; Rogers, R. D. "Hypergolic zeolitic imidazolate frameworks (ZIFs) as next-generation solid fuels: Unlocking the latent energetic behavior of ZIFs," *Sci. Adv.* **2019**, *5*, eaav9044 (8 pp). DOI: 10.1126/sciadv.aav9044.
870. Abdelfatah, E.; Chen, Y.; Berton, P.; Rogers, R. D.; Bryant, S. "Tuning Ionic Liquids for Simultaneous Dilution and Demulsification of Water-in-Bitumen Emulsions at Ambient Temperature," *Soc. Petr. Eng. J.* **2020**, *25*, 759-770.
871. Berton, P.; Manouchehr, S.; Wong, K.; Ahmadi, Z.; Abdelfatah, E.; Rogers, R. D.; Bryant, S. L. "Ionic Liquids-Based Bitumen Extraction: Enabling Recovery with Environmental Footprint Comparable to Conventional Oil," *ACS Sustainable Chem. Eng.* **2020**, *8*, 632-641. DOI: 10.1021/acssuschemeng.9b06336
872. Easton, M. E.; Li, K.; Titi, H. M.; Kelley, S. P.; Rogers, R. D. "Controlling the Interface between Salts, Solvates, Co-crystals, and Ionic Liquids with Non-stoichiometric Protic Azolium Azolates," *Cryst. Growth Des.* **2020**, *20*, 2608-2616. DOI: 10.1021/acs.cgd.9b01733.
873. Kelley, S. P.; Pei, H.; Smetana, V.; Mudring, A.-V.; Rogers, R. D. "Structural Consequences of Halogen Bonding in Dialkylimidazolium: A New Design Strategy for Ionic Liquids Illustrated with the I_2 Co-Crystal and Acetonitrile Solvate of 1,3-Dimethylimidazolium Iodide," *Cryst. Growth Des.* **2020**, *20*, 498-505. DOI: 10/1021/acs.cgd.9b01454.
874. Kelley, S. P.; Smetana, V.; Emerson, S. D.; Mudring, A.-V.; Rogers, R. D. "Benchtop Access to Anhydrous Actinide N-donor Coordination Complexes using Ionic Liquids," *Chem. Commun.* **2020**, *56*, 4232-4235. DOI: 10.1039/C9CC09852F.
875. Kelley, S. P.; Smetana, V.; Nuss, J. S.; Dixon, D. A.; Vasiliu, M.; Mudring, A.-V.; Rogers, R. D. "Dehydration of $UO_2Cl_2 \cdot 3H_2O$ and $Nd(NO_3)_3 \cdot 6H_2O$ with a Soft Donor Ligand and Comparison of Their Interactions through X-ray Diffraction and Theoretical Investigation," *Inorg. Chem.* **2020**, *59*, 2861-2869. DOI: 10.1021/acs.inorgchem.9b03228.
876. Kore, R.; Kelley, S. P.; Sawant, A.; Mishra, M. K.; Rogers, R. D. "Are Ionic Liquids and Liquid Coordination Complexes Really Different? - Synthesis, Characterization, and Catalytic Activity of $AlCl_3$/Base Catalysts," *Chem. Commun.* **2020**, *56*, 5362-5365. DOI:10.1039/d0cc01452d. (Highlighted as a Hot Article by *Chem. Commun.* January 16, 2006, URL: https://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=cc&themeid=bd0418ed-b7cd-4af5-9e4d-496d0d758ae1; last accessed June 2, 2020.)
877. Kore, R.; Mishra, M. K.; Gonela, U. M.; Rogers, R. D. "Chloroaluminate Liquid Clathrates: Is It the Cations or the Anions That Drive the Solubility of Aromatics?" *Ind. Eng. Chem. Res.* **2020**, *59*, 18419-18424. DOI: 10.1021/acs.iecr.0c03980.
878. Kore, R.; Uppara, P. V.; Rogers, R. D. "Replacing HF or $AlCl_3$ in the Acylation of Isobutylbenzene with Chloroaluminate Ionic Liquids," *ACS Sustainable Chem. Eng.* **2020**, *8*, 10330-10334. DOI:10.1021/acssuschemeng.0c03951.
879. Mishra, M. K.; Kelley, S. P.; Smetana, V.; Dixon, D. A.; McNeill, A. S.; Mudring, A.-V.; Rogers. R. D. "Crystallographic evidence of Watson-Crick connectivity in the base pair of anionic adenine with thymine," *Proc. Natl. Acad. Sci.* **2020**, *117*, 18224-18230. DOI: 10.1073/pnas.2008379117.
880. Pernak, J.; Rzemieniecki, T.; Klejdysz, T.; Qu, F.; Rogers, R. D., "Conversion of quinine derivatives into biologically active ionic liquids: advantages, multifunctionality and perspectives," *ACS Sustainable Chem. Eng.* **2020**, *8*, 9263-9267. DOI:10.1021/acssuschemeng.0c03501.
881. Shamshina, J. L.; Kelly, A.; Oldham, T.; Rogers, R. D. "Agricultural uses of chitin polymers," *Environ. Chem. Lett.* **2020**, *18*, 53-60. DOI:10.1007/s10311-019-00934-5.
882. Shamshina, J. L.; Rogers, R. D. "Are Ionic Liquids Enabling Technology? Startup to Scale-Up to Find Out," In *Commercial Applications of Ionic Liquids*, Green Chemistry and Sustainable Technology, M. B. Shiflett (Ed.), Springer Nature: Switzerland, 2020, Ch. 4, pp 69-85. DOI: 10.1007/978-3-030-35245-5_4.

883. Shamshina, J. L.; Rogers, R. D. "Are Myths and Preconceptions Preventing us from Applying Ionic Liquid Forms of Antiviral Medicines to the Current Health Crisis?" *Int. J. Mol. Sci.* **2020**, *21*, 6002 (16 pp). DOI: 10.3390/ijms21176002.
884. Smetana, V.; Kelley, S. P.; Mudring, A.-V.; Rogers, R. D., "A fivefold UO_2^{2+} node is a path to dodecagonal quasicrystal approximants in coordination polymers," *Sci. Adv.* **2020**, *6*, eaay7685 (4 pp). DOI: 10.1126/sciadv. eaay7685.
885. Smetana, V.; Kelley, S. P.; Titi, H. M.; Hou, X.; Tang, S.-F.; Mudring, A.-V.; Rogers, R. D. "Synthesis of Anhydrous Acetates for the Components of Nuclear Fuel Recycling in Dialkylimidazolium Acetate Ionic Liquids," *Inorg. Chem.* **2020**, *59*, 818-828. DOI: 10.1021/acs.inorgchem.9b03077.
886. Tang, S.-F.; Smetana, V.; Mishra, M. K.; Kelley, S. P.; Renier, O.; Rogers, R. D.; Mudring, A.-V. "Forcing Dicyanamide Coordination to f-Elements by Dissolution in Dicyanamide-Based Ionic Liquids," *Inorg. Chem.* **2020**, *59*, 7227-7237. DOI:10.1021/acs.inorgchem.0c00667.
887. Wilms, W.; Woźniak-Karczewska, M.; Niemczak, M.; Lisiecki, P.; Zgoła-Grześkowiak, A.; Ławniczak, L.; Framski, G.; Pernak, J.; Owsianiak, M.; Vogt, C.; Fischer, A.; Rogers, R. D.; Chrzanowski, L. "Quantifying the Mineralization of ^{13}C-Labeled Cations and Anions Reveals Differences in Microbial Biodegradation of Herbicidal Ionic Liquids between Water and Soil," *ACS Sustainable Chem. Eng.* **2020**, *8*, 3412-3426. DOI:10.1021/acssuschemeng.9b07598.
888. Wilms, W.; Wozniak-Karczewska, M.; Syguda, A.; Niemczak, M.; Lawniczak, L.; Pernak, J.; Rogers, R. D.; Chrzanowski, L. "Herbicidal ionic liquids - a promising future for old herbicides? Review on synthesis, toxicity, biodegradation and efficacy studies," *J. Agric. Food Chem*. **2020**, *68*, 10456-10488. DOI:10.1021/acs.jafc.0c02894.
889. Wineinger, H. B.; Shamshina, J. L.; Kelly, A.; King, C.; Rogers, R. D. "A method for determining the uniquely high molecular weight of chitin extracted from raw shrimp shells using ionic liquids," *Green Chem.* **2020**, *22*, 3734-3741. DOI: 10.1039/d0gc00753f.
890. Wineinger, H. B.; Kelly, A.; Shamshina, J. L.; Rogers, R. D. "Farmed Jumbo Shrimp Molts: An Ionic Liquid Strategy to Increase Chitin Yield per Animal while Controlling Molecular Weight," *Green Chem.* **2020**, *22*, 6001-6007. DOI: 10.1039/D0GC02216K.
891. Berton, P.; Tian, H.; Rogers, R.D. "Phase Behavior of Aqueous Biphasic Systems with Choline Alkanoate Ionic Liquids and Phosphate Solutions: The Influence of pH," *Molecules* **2021**, 26, 1702, 14 pp. DOI: 10.3390/molecules26061702.
892. Bisht, M.; Macário, I. P. E.; Neves, M. C.; Pereira, J. L.; Pandey, S.; Rogers, R. D.; Coutinho, J. A. P.; Ventura, S. P. M. "Enhanced Dissolution of Chitin Using Acidic Deep Eutectic Solvents: A Sustainable and Simple Approach to Extract Chitin from Crayfish shell Wastes as Alternative Feedstocks," *ACS Sustainable Chem. Eng.* **2021**, *9*, 16073−16081. DOI:10.1021/acssuschemeng.1c04255.
893. Bond, A. H.; Rogers, R. D. "Bismuth coordination chemistry: a brief retrospective spanning crystallography to clinical potential," *J. Coord. Chem.* **2021**, *74*, 129-151. DOI: 10.1080/00958972.2021.1878499.
894. Bousrez, G.; Renier, O.; Kelley, S. P.; Adranno, B.; Tahavori, E.; Titi, H. M.; Smetana, V.; Tang, S.-F.; Mudring, A.-V.; Rogers, R. D. "Ready access to anhydrous anionic lanthanide acetates using imidazolium acetate ionic liquids as the reaction medium," *Chem. Eur. J.* **2021**, *27*, 13181-13189. DOI: 10.1002/chem.202100141
895. Kelley, S. P.; Smetana, V.; Mudring, A.-V.; Rogers, R. D. "Structural Analysis of Mono-Substituted *N*-butyl-pyridinium Salts: In Search of Ionic Liquids," *J. Coord. Chem.* **2021**, 74, 117-128. DOI: 10.1080/00958972.2021.1876851.
896. Kore, R.; Sawant, A. D.; Rogers, R. D. "Recyclable Magnetic Fe_3O_4 Nanoparticle-Supported Chloroaluminate Ionic Liquids for Heterogeneous Lewis Acid Catalysis," *ACS Sustainable Chem. Eng.* **2021**, *9*, 8797-8802. DOI: 10.1021/acssuschemeng.1c01803.
897. Nayak, A.; Smetana, V.; Mudring, A.-V.; Rogers, R. D. "Anhydrous vs. hydrated *f*-element acetate polymers dictated by the stoichiometry of protic acidic/basic azole mixtures," *Cryst. Growth Des.* **2021**, *21*, 2516−2525. DOI: 10.1021/acs.cgd.1c00181.
898. Renier, O.; Bousrez, G.; Baryshnikov, G. V.; Paterlini, V.; Smetana, V.; Hans Ågren, H.; Rogers, R. D.; Mudring, A.-V. "Shape Preserving Single Crystal to Amorphous to Single Crystal Polymorphic Transformation Is Possible," *J. Am. Chem. Soc.* **2021** *143*, 20202-20206. DOI: 10.1021/jacs.1c08590
899. Shamshina, J. L.; Qin, Y.; Belmore, K.; Daly, D. T.; Rogers, R. D. "Switchable carbamate coagulants to improve recycling ionic liquid from biomass solutions," *Green Chem. Eng.* **2021**, *2*, 384-391. https://doi.org/10.1016/j.gce.2021.07.001.
900. Shamshina, J. L., Rogers, R. D. "3D Printing of Cellulose and Chitin from Ionic Liquids for Drug Delivery: A Mini-Review," In: *Application of Ionic Liquids in Drug Delivery*, Goto, M.; Moniruzzaman, M. (Eds), Springer: Singapore, 2021, Ch. 5, pp. 71-90. DOI: 10.1007/978-981-16-4365-1_5.
901. Shamshina, J. L.; Wineinger, H. B.; Choudhary, H.; Vaid, T. P.; Kelley, S. P.; Rogers, R. D. "Confusing Ions on Purpose: How Many Parent Acid Molecules Can Be Incorporated in a Herbicidal Ionic Liquid?" *ACS Sustainable Chem. Eng.* **2021**, *9*, 1941-1948. DOI: 10.1021/acssuschemeng.0c08797.
902. Smetana, V.; Kelley, S. P.; Pei, H.; Mudring, A.-V.; Rogers, R. D. "Sandwiched Kagomé Lattices in a Coordination Polymer Based on Mixed-Valent Uranium," *Cryst. Growth Des.* **2021**, *21*, 1727-1733. DOI: 10.1021/acs.cgd.0c01626.
903. Achinivu, E. C.; Shamshina, J. L.; Rogers, R. D. "Chitin extracted from various biomass sources: It's not the same", *Fluid Phase Equilibria* **2022**, *552*, 113286. DOI:10.1016/j.fluid.2021.113286.
904. Berton, P.; Chen, Y.N.; Manoucherhr, S.; Wong, K.; Ahmadi, Z.; Bryant, S.L.; Rogers, R.D. "Design of ionic liquids for dewatering stable solid/liquid complex slurries," *AIChE J.* **2022**, *68;* 11 pp:e17494. DOI:10.1002/aic.17494
905. Choudhary, H.; Li, K.; Rogers, R. D. "Active Pharmaceutical Ingredient Ionic Liquid: A New Platform for the Pharmaceutical Industry," In *Encyclopedia of Ionic Liquids*, Zhang, S. (Ed.); Springer Nature: Singapore, 2022, pp 8-22. ISBN 978-981-33-4220-0. DOI: 10.1007/978-981-33-4221-7. (A new publishing of the 2019 electronic version.)

906. Jobin, O.; Cristina Mottillo, C.; Titi, H. M.; Marrett, J. M.; Arhangelskis, M.; Rogers, R. D.; Bachar Elzein, B.; Friščić, T.; Robert, É. "Metal–organic frameworks as hypergolic additives for hybrid rockets," *Chem. Sci.* **2022**, *13*, 3424-3436. DOI: 10.1039/d1sc05975k.
907. Lin, N.; King, C.; Uong, V.; Rogers, R. D.; Moraes, C.; Tufenkji, N.; "Surface micropatterning of cellulose hydrogels via template replication," *ACS Sustainable Chem. Eng.* **2022**, Submitted.
908. Mishra, Manish Kumar; Smetana, Volodymyr; Hiti, Ethan A.; Wineinger, Hannah B.; Qu, Fengrui; Mudring, Anja-Verena; Rogers, Robin D. "CO_2 capture from ambient air via crystallization with tetraalkylammonium hydroxides," *Dalton Trans.* **2022**, *51*, 17724-17732. DOI: 10.1039/d2dt02262a
909. Rogers, R. D. "Ionic liquids for bio-product extraction: How do we get Technical Feasibility, Economic Feasibility, and Social Acceptability?" *Fluid Phase Equilibria* **2022**, *552*, 113273. DOI:10.1016/j.fluid.2021.113273.
910. Shamshina, J. L.; Berton, P.; Rogers, R. D. "Chitin as a Resource for EcoFriendly Bioplastics," In *Encyclopedia of Ionic Liquids*, Zhang, S. (Ed.); Springer Nature: Singapore, 2022, pp 203-210. ISBN 978-981-33-4220-0. DOI: 10.1007/978-981-33-4221-7. (A new publishing of the 2019 electronic version.)
911. Wineinger, H. B.; Smetana, S.; Nayak, A.; Qu, F.; Mudring, A.-V.; Rogers, R. D. "Accessing Lanthanide Tricyanomethanide Coordination Polymers Using Ionic Liquids," *Cryst. Growth Des.* **2022**, *22*, 2372-2381. DOI: 10.1021/acs.cgd.1c01452.
912. Adranno, B.; Renier, O.; Bousrez, G.; Paterlini, V.; Baryshnikov, G. B.; Smetana, V.; Tang, S.; Ågren, H.; Metlen, A.; Edman, L.; Mudring, A.-V.; Rogers, R. D. "The 8-Hydroxyquinolinium Cation as a Lead Structure for Efficient Color-Tunable Ionic Small Molecule Emitting Materials," *Adv. Photonics Res.* **2023**, *4*, 2200279, 12 pp. DOI: 10.1002/adpr.202200279.
913. Hiti, E. A.; Mishra, Manish Kumar; Smetana, Volodymyr; Mudring, Anja-Verena; Rogers, Robin D. "Isolation of anhydrous tetrabutylphosphonium lanthanide hexa- and penta-nitrates from ionic liquids," *Polyhedron* **2023**, *232*, 116277, 7 pp. DOI: 10.1016/j.poly.2022.116277
914. Renier, O.; Bousrez, G.; Smetana, V.; Mudring, A.-V.; Rogers, R. D. "Investigation of the Role of Hydrogen Bonding in Ionic Liquid-Like Salts with both N- and S-Soft Donors," *CrystEngComm* **2023**, *25*, 530-540. DOI: 10.1039/d2ce00961g
915. Shamshina, J. L.; Rogers, R. D. "Commercialization of Ionic Liquids in Pursuit of Green Chemistry: Must we Each Become an Entrepreneur?" *Chem. Rec.* **2023**, e202200256, 13 pp. DOI: 10.1002/tcr.202200256
916. Shen, X.; Zhao, D.; Xie, Y.; Wang, Q.; Shamshina, J. L.; Rogers, R. D.; Sun, Q. "Cellulose gel mechanoreceptors - principles, applications and prospects," *Adv. Funct. Mater.* **2023**, 2214317, 29 pp. DOI: 10.1002/adfm.2022143171.
917. Smetana, V.; Renier, O.; Bousrez, G.; Lidin, S.; Rogers, R. D.; Mudring, A.-V. "Reversible single-crystal-to-single-crystal phase transitions through an incommensurately modulated polymorph," 2023, manuscript in preparation.
918. Wineinger, H.; Smetana, S.; Hiti, E.; Baryshnikov, G.; Qu, F.; Ågren, H.; Mudring, A.-V.; Rogers, R. D. "Trapping An Unexpected/Unprecedented Hexanuclear Ce(III) Hydrolysis Product with Neutral 4-Amino-1,2,4-triazole," *Eur. J. Inorg. Chem.* **2023,** xx-xx. DOI:.

B. Non-Refereed Reviews, Reports, Articles, and Extended Abstracts:

1. Rogers, R. D. "Actinide Elements," In *The Encyclopedia of Physical Science and Technology*; 1st ed.; Meyers, R. A., Ed.; Academic Press: Orlando, FL, 1987; Vol. 1; pp 190-217.
2. Rogers, R. D. Book Review of "Studies in Surface Science and Catalysis. Volume 45. Transition Metal Oxides: Surface Chemistry and Catalysis," *J. Am. Chem. Soc.* **1990**, *112*, 6454.
3. Rogers, R. D.; Rogers, L. M. "Lanthanides and Actinides. Annual Survey Covering the Year 1983," *J. Organomet. Chem.* **1990**, *380*, 51-76.
4. Rogers, R. D.; Rogers, L. M. "Lanthanides and Actinides. Annual Survey Covering the Years 1984-1986," *J. Organomet. Chem.* **1991**, *416*, 201-290.
5. Rogers, R. D. "Actinide Elements," In *The Encyclopedia of Physical Science and Technology*; 2nd ed.; Meyer, R. A., Ed.; Academic Press: Orlando, FL, 1992; Vol. 1; pp 228-256.
6. Rogers, R. D.; Rogers, L. M. "Lanthanides and Actinides. Annual Survey Covering the Years 1987-1989," *J. Organomet. Chem.* **1992**, *442*, 83-224.
7. Rogers, R. D.; Rogers, L. M. "Lanthanides and Actinides. Annual Survey Covering the Year 1990," *J. Organomet. Chem.* **1992**, *442*, 225-269.
8. Rogers, R. D.; Rogers, L. M. "Lanthanides and Actinides. Annual Survey Covering the Year 1991," *J. Organomet. Chem.* **1993**, *457*, 41-62.
9. Rogers, R. D.; Eiteman, M. A. "Preface," In *Aqueous Biphasic Separations: Biomolecules to Metal Ions*; Rogers, R. D.; Eiteman, M. A., Eds.; Plenum: New York, 1995; p v.
10. Rogers, R. D. "Crystal Engineering - ACA Transactions Symposium - July 1998," In *American Crystallographic Association Newsletter*, ACA: Buffalo, NY, Summer 1998.
11. Sharma, C. V. K.; Rogers, R. D. "Perspectives of Crystal Engineering," *Materials Today* **1998**, *1(3)*, 27-30.
12. Bond, A. H.; Dietz, M. L.; Rogers, R. D. "Preface," In *Metal-Ion Separation and Preconcentration, Progress and Opportunities*; Dietz, M. L.; Bond, A. H.; Rogers, R. D., Eds.; ACS Symposium Series 716, American Chemical Society: Washington, DC, 1999; pp xi-xii.
13. Huddleston, J. G.; Willauer, H. D.; Griffin, S. T.; Visser, A. E.; Rogers, R. D. "Green Separation Science & Technology: Using Environmentally Benign Polymers to Replace VOCs in Industrial Scale Liquid/Liquid Separations," In *Green Chemistry and Engineering Conference Proceedings: Implementing Vision 2020 for the Environment, (1997); Global Perspectives, (1998)*; American Chemical Society: Washington, DC, 1999; pp 225-228.
14. Rogers, R. D.; Griffin, S. T.; Willauer, H. D.; Nicol, J. A. "Clean Solvent Extraction Using Polyethylene Glycol-Based Aqueous Biphasic Systems," In *Green Chemistry and Engineering Conference Proceedings: Implementing Vision 2020 for the Environment, (1997); Global Perspectives, (1998)*; American Chemical Society: Washington, DC, 1999; pp 149-151.
15. Lumetta, G. J.; Rogers, R. D.; Gopalan, A. S. "Preface," In *Calixarenes for Separations*; Lumetta, G. J.; Rogers, R. D.; Gopalan, A. S., Eds.; ACS Symposium Series 757, American Chemical Society: Washington, DC, 2000; pp ix-x.
16. Rogers, R.D. "Preface," *J. Chromatogr., B: Biomed. Sci. Appl.* **2000**, *743*, 1.
17. Rogers, R. D. "Green Industrial Applications of Ionic Liquids – A NATO Advanced Research Workshop, Crete, Greece (12-16 April 2000)," *Green Chemistry* **2000**, *2*, G94-G96.
18. Visser, A. E.; Swatloski, R. P.; Reichert, W. M.; Willauer, H. D.; Huddleston, J. G.; Rogers, R. D. "Chemical and Physical Characteristics of Room Temperature Ionic Liquids and the Associated Implications for their Use as Solvent Alternatives," In *Proceedings of GreenChem2000, 4th Annual Green Chemistry and Engineering Conference, Sustainable Technologies: From Research to Industrial Implementation,* American Chemical Society, Washington, DC, 2000; pp 50-52.
19. *Research Needs for High-Level Waste Stored in Tanks and Bins at U.S. Department of Energy Sites, Environmental Management Science Program*, Committee on Long-Term Research Needs for Radioactive High-Level Waste at Department of Energy Sites, Board on Radioactive Waste Management Division on Earth and Life Studies, National Research Council of the National Academies, National Academy Press, Washington, DC, 2001; 134 pp. (Written by Committee)
20. Rogers, R. D. "Editorial," *Cryst. Growth Des.* **2001**, *1*, 1-2.
21. Rogers, R. D. "Editorial," *Cryst. Growth Des.* **2002**, *2*, 1-2.
22. Rogers, R. D. "Editorial – Best New Journal," *Cryst. Growth Des.* **2002**, *2*, 161.
23. Huddleston, J. G.; Moody, M. L.; Willauer, H. D.; Broker, G. D.; Rogers, R. D. "Predicting the Performance of Alternative Solvents Through the Use of Free Energy Relationships," In *Proceedings of GreenChem2002, 6th Annual Green Chemistry and Engineering Conference, Meeting Global Challenges through Economics and Environmental Innovations,* American Chemical Society, Washington, DC, 2002; pp 59-62.
24. Holbrey, J. D.; Shaughnessy, K. H.; Rogers, R. D. "Polymerization and Polymers in Room Temperature Ionic Liquids," In *Proceedings of GreenChem2002, 6th Annual Green Chemistry and Engineering Conference, Meeting Global Challenges through Economics and Environmental Innovations,* American Chemical Society, Washington, DC, 2002; pp 62-64.
25. Rogers, R. D.; Holbrey, J. D.; Spear, S. K.; Swatloski, R. P. "Ionic Liquids: A Look at the Dissolution of Cellulose," In *Proceedings of GreenChem2002, 6th Annual Green Chemistry and Engineering Conference, Meeting Global Challenges through Economics and Environmental Innovations,* American Chemical Society, Washington, DC, 2002; pp 39-40.
26. Rogers, R. D.; Seddon, K. R. "Preface," In *Ionic Liquids; Industrial Applications to Green Chemistry*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 818; American Chemical Society: Washington DC, 2002; pp xiii-xiv.

27. Swatloski, R. P.; Holbrey, J. D.; Spear, S. K.; Rogers, R. D. "Ionic Liquids as Green Solvents for Regeneration/Engineering of Cellulose Based Products," In *Proceedings of GreenChem2002, 6th Annual Green Chemistry and Engineering Conference, Meeting Global Challenges through Economics and Environmental Innovations,* American Chemical Society, Washington, DC, 2002; pp 151-152.
28. Rogers, R. D. "Editorial," *Cryst. Growth Des.* **2003**, *3*, 1-2.
29. Rogers, R. D. "Editorial: Introduction: Polymorphism in Crystals," *Cryst. Growth Des.* **2003**, *3*, 867.
30. Rogers, R. D.; Seddon, K. R. "Preface," In *Ionic Liquids as Green Solvents: Progress and Prospects*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 856; American Chemical Society: Washington DC, 2003; pp xiii-xvi.
31. Rogers, R. D.; Seddon, K. R.; Volkov, S. "Preface," In *Green Industrial Applications of Ionic Liquids*, Rogers, R. D.; Seddon, K. R.; Volkov, S. (Eds.); Kluwer: Dordrecht, 2003; pp xi-xvii.
32. Holbrey, J. D.; Chen, J.; Turner, M. B.; Swatloski, R. P.; Spear, S. K.; Rogers, R. D. "Applying ionic liquid solvent characteristics for controlled processing of polymer materials," *Polymer Preprints* (American Chemical Society, Division of Polymer Chemistry) **2004**, *45*, 297-298.
33. Klingshirn, M. A.; Spear, S. K.; Subramanian, R.; Holbrey, J. D.; Rogers, R. D. "Synthesis, characterization, and application of ionic liquid-poly(ethylene) glycol gel matrices," *Polymer Preprints* (American Chemical Society, Division of Polymer Chemistry) **2004**, *45*, 307-308.
34. Shaughnessy, K. H.; P'Pool, S. J.; Klingshirn, M. A.; Rogers, R. D. "Coordination polymerization of alkenes in ionic liquid solvents," *Polymer Preprints* (American Chemical Society, Division of Polymer Chemistry) **2004**, *45*, 317-318.
35. Rogers, R. D. "Editorial: *Crystal Growth & Design* on an Upward Track," *Cryst. Growth Des.* **2004**, *4*, 1.
36. Rogers, R. D. "Robin D. Rogers," *Green Chem.* **2004**, *6*, G17-G19.
37. Rogers, R. D.; Gutowski, K. E.; Griffin, S. T.; Holbrey, J. D. "Aqueous biphasic systems based on salting-out polyethylene glycol or ionic liquid solutions: strategies for actinide or fission product separations. Preprints of Extended Abstracts presented at the ACS National Meeting, American Chemical Society, Division of Environmental Chemistry **2004**, *44*, 403-407.
38. Rogers, R. D. "Editorial: Polymorphism in Crystals-A Special Issue of *Crystal Growth & Design*," *Cryst. Growth Des.* **2004**, *4*, 1085.
39. *Risk and Decisions About Disposition of Transuranic and High-Level Radioactive Waste*, Committee on Risk-Based Approaches for Disposition of Transuranic and High-Level Radioactive Waste, National Research Council of the National Academies, The National Academies Press, Washington, DC, 2005; 215 pp. (Written by Committee)
40. Rogers, R. D. "Editorial: *Crystal Growth & Design* on an Upward Track," *Cryst. Growth Des.* **2005**, *5*, 1.
41. Turner, M. B.; Holbrey, J. D.; Spear, S. K.; Rogers, R. D. "Ionic Liquids," In *2005 Yearbook of Science & Technology*, McGraw-Hill: New York, 2005; pp 158-160.
42. Rogers, R. D. "Editorial: *A Tribute to the Life and Career of J. Michael McBride*," *Cryst. Growth Des.* **2005**, *5*, 2021.
43. Rogers, R. D.; Seddon, K. R. "Preface," In *Ionic Liquids IIIA: Fundamentals, Progress, Challenges, and Opportunities – Properties and Structure*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 902; American Chemical Society: Washington DC, 2005 pp xiii-xiv and In *Ionic Liquids IIIB: Fundamentals, Progress, Challenges, and Opportunities - Transformations and Processes*, Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 902; American Chemical Society: Washington DC, 2005 pp xiii-xiv.
44. Vlieg, E.; Rogers, D. R. "Polymorphism," (A report on the name microsymposium at the XX Congress and General Assembly of the IUCr (2005)), International Union of Crystallography Newsletter **2005**, *13*, 15 and 18.
45. Rogers, R. D. "Preface: China - A Growing Ionic Liquids Community," In *Ionic Liquids: From Fundamentals to Applications*, Zhang, S. (Ed.); ScienceP: Beijing, China, 2006.
46. Rogers, R. D. "Editorial: Authors Lead *Crystal Growth & Design* to Monthly Issues and Higher Impact!" *Cryst. Growth Des.* **2006**, *6*, 1.
47. Rogers, R. D. "First China-USA Green Chemistry Workshop," *Green Chem.* **2006**, *8*, 126-127.
48. Rogers, R. D.; Seddon, K. R. "A Response to an Old-Fashioned Thought Cop," *Anal. Chem.* **2006**, *78*, 3480-3481.
49. Rogers, R. D. "Editorial: Higher Impact, Higher Immediacy, Growth, and Outreach," *Cryst. Growth Des.* **2007**, *7*, 1.
50. Brennecke, J. F.; Rogers, R. D.; Seddon, K. R. "Preface," In *Ionic Liquids IV: Not Just Solvents Anymore*, Brennecke, J. F.; Rogers, R. D.; Seddon, K. R. (Eds.); ACS Symposium Series 975; American Chemical Society: Washington DC, 2007; pp xi-xiii.
51. Rogers, R. D.; Voth, G. A. "Guest Editorial: Ionic Liquids," *Acc. Chem. Res.* **2007**, *40*, 1077-1078.
52. Gurau, G.; Rogers, R. D. "Ionic Liquids: Green Solvents or Advanced Materials?" *Materials World* **2007**, *15*(12), 25-27.
53. Rogers, R. D., "Ionic Liquids: Green Miracles, Toxic Solvents, or New Drugs?," Center for Advanced Bioseparation Technology Newsletter, December 2007.
54. Rogers, R. D. "Editorial: Expanding Horizons," *Cryst. Growth Des.* **2008**, *8*, 1.
55. Rogers, R. D. "Is a Lower Risk 'Green' Industrial revolution in our Future?" *Risk Policy Report*; Inside EPA; Washington, DC; April 1, 2008, *15*, pp 11-12.
56. Kunle, O. O.; Fortunak, J.; Rogers, R. D. "Workshop in Green Chemistry Production of Essential Medicines in Developing Countries," *Green Chem.* **2008**, *10*, 823-824.
57. Rodríguez, H.; Bica, K.; Rogers, R. D. "(Editorial) Ionic Liquid Technology: A Potential New Platform for the Pharmaceutical Industry," *Trop. J. Pharm. Res.* **2008**, *7*, 1011-1012.
58. Rogers, R. D. "Journal Club: A Chemist Believes that an Ionic Liquid is the Place for a Noxious Gas," *Nature* **2008**, *454*, 555.
59. Rogers, R. D. "Editorial: *Crystal Growth & Design* in India," *Cryst. Growth Des.* **2009**, *9*, 1639.

60. *Advice on the Department of Energy's Cleanup Technology Roadmap: Gaps and Bridges*, Nuclear and Radiation Studies Board Division of Earth and Life Sciences Committee on Development and Implementation of a Cleanup Technology Roadmap, National Research Council of the National Academies, The National Academies Press, Washington, DC, 2009; 271 pp. (Written by Committee)
61. Rogers, R. D. "Editorial: *Crystal Growth & Design's* First Virtual Special Issue," *Cryst. Growth Des.* **2009**, *9*, 4207.
62. Rogers, R. D. "Preface," In *Ionic Liquids and Green Chemistry*, Zhang, S; Xu, C.; Lu, X.; Zhou, Q. (Eds.); Science Press: Beijing, China, 2009.
63. Rogers, R. D. "Preface, Twenty-Fifth Rare Earth Research Conference," *J. Alloys Comp.* **2009**, *488*, 491.
64. Plechkova, N. V.; Rogers, R. D.; Seddon K. R. "Preface" In *Ionic Liquids: From Knowledge to Application*, Plechkova, N. V.; Rogers, R. D.; Seddon K. R. (Eds.); ACS Symposium Series 1030; American Chemical Society: Washington, DC, 2009; pp xi-xii. DOI: 10.1021/bk-2009-1030.pr001.
65. Rogers, R. D. "10th Anniversary Anticipation," *Cryst. Growth Des.* **2010**, *10*, 1-2.
66. Rogers, R. D. "When Giants Cooperate instead of Collide," *Cryst. Growth Des.* **2010**, *10*, 4671.
67. Rogers, R. D. "A Look at Ionic Liquids," *Chemical & Engineering News*, November 29, 2010, pp 38-39.
68. Rogers, R. D. "Ten Years of Experience: How can we put it to good use?," *Cryst. Growth Des.* **2011**, *11*, 1-3.
69. Brennecke, J. F.; Schatz, G. C.; Rogers, R. D. "Ionic Liquids Virtual Special Issue," *Cryst. Growth Des.* **2011**, *11*, 625-626.
70. Rogers, R. D. "Halogen Bonding: Weak Interactions Result in Strong Opinions," *Cryst. Growth Des.* **2011**, *11*, 4721-4722.
71. Rogers, R. D. "*Crystal Growth & Design* Around the World in 2012," *Cryst. Growth Des.* **2012**, *12*, 1-2.
72. Chen, J.; Rodríguez, H.; Rogers, R. D. "Editorial: SS&T Special Issue on Ionic Liquids for Separations," *Sep. Sci. Technol.* **2012**, *47*, 167-168.
73. Rogers, R. D.; Zhang, S.; Wang, J. "Preface" An International Look at Ionic Liquids," *Sci. China Chem.* **2012**, *55*, 1475-1477. DOI: 10.1007/s11426-012-4718-3
74. Zhang, S.; Ng, F. T. T.; Rogers, R. D. "Preface," *Catalysis Today* **2013**, *200*, 1.
75. Visser, A. E.; Bridges, N. J.; Rogers, R. D. "Preface" In *Ionic Liquids: Science and Applications*, Visser, A. E.; Bridges, N. J.; Rogers, R. D. (Eds.); ACS Symposium Series 1117; American Chemical Society: Washington, DC, 2012; pp ix-x. DOI: 10.1021/bk-2012-1117.pr001.
76. Lind-Kovacs, C.; Rogers, R. D. "TR: The Transactions symposium: Crystallography for Sustainability," ACA Reflexions, ACA – Structure Matters; American Crystallographic Association: Buffalo, NY, 2015, No. 3 Fall; pp 20-21.
77. Rogers, R. D. "Eliminating the Need for Chemistry," *Chemical & Engineering News*, December 7/14, 2015, pp 42-43.
78. Rogers, R. D. "Recognizing, Catalyzing, and Embracing Change," *Cryst. Growth Des.* **2016**, *16*, 1-2. DOI: 10.1021/acs.cgd.5b01801.
79. Rogers, R. D. Foreward. Ionic-Liquid-Based Aqueous Biphasic Systems. Ed. Freire, M. G., Springer-Verlag Berlin Heidelberg, 2016. v-vii. Print.
80. Rogers, R. D. "Old Years, New Years, Welcomes, and Social Media," *Cryst. Growth Des.* **2017**, *17*, 1-2. DOI: 10.1021/acs.cgd.6b01873.
81. King, C.; Easton, M. E.; Rogers, R. D. "Chitin for the Replacement of Fluoropolymers in the Assembly of Electrochemical Devices," *ChemRxiv.* **2018**, 1-10. DOI: 10.26434/chemrxiv.6146543.v1.
82. Titi,H. M.; Marrett, J. M.; Dayaker, G.; Arhangelskis, M.; Mottillo, C.; Morris, A. J.; Rachiero, G. P.; Friščić, T.; Rogers, R. D. "Hypergolic Zeolitic Imidazolate Frameworks (ZIFs) as Next-Generation Solid Fuels: Unlocking the Latent Energetic Behavior of ZIFs," *ChemRxiv.* **2018**. DOI: 10.26434/chemrxiv.6146543.v1.
83. Rogers, R. D. "2019 Year of the Periodic Table," *Cryst. Growth Des.* **2019**, *19*, 1-2. DOI: 10.1021/acs.cgd.8b01854.
84. *Independent Assessment of Science and Technology for the Department of Energy's Defense Environmental Cleanup Program,* Nuclear and Radiation Studies Board Division of Earth and Life Sciences Committee on Independent Assessment of Science and Technology for the Department of Energy's Defense Environmental Cleanup Program, National Academies of Sciences, Engineering, Washington, DC: The National Academies Press, Washington, DC, 2019; 106 pp. https://doi.org/10.17226/25338. (Written by Committee)
85. Titi, H. M.; Arhangelskis, M.; Katsenis, A. D.; Mottillo, C.; Ayoub, D.; Do, J.-L.; Fidelli, A. M.; Rogers, R. D.; Friščić, T. "Metal-organic frameworks (MOFs) as fuels for advanced applications: evaluating and modifying the combustion energy of popular MOFs," *ChemRxiv.* **2019**, 1-7. DOI: 10.26434/chemrxiv.7962851.v1.
86. Titi, H. M.; Arhangelskis, M.; Rachiero, G. P.; Friščić, T. ; Rogers, R. D. "Hypergolic Triggers as Cocrystal Formers: Cocrystallization for Creating New Hypergolic Materials with Tunable Energy Content," *ChemRxiv.* **2019**, 1-8. DOI: 10.26434/chemrxiv.8273654.
87. Rogers, R. D. "This is It!" *Cryst. Growth Des.* **2019**, *19*, 6825. DOI: 10.1021/acs.cgd.9b01524.
88. Abdelfatah, E.; Chen, Y.; Berton, P.; Rogers, R. D.; Bryant, S. "Tuning Ionic Liquids for Simultaneous Dilution and Demulsification of Water-in-Bitumen Emulsions at Ambient Temperature," Society of Petroleum Engineers: Richardson, TX, 2019, pp 17. DOI: 10.2118/193615-MS
89. Titi H. M.; Marrett J. M.; Jobin O.; Mottillo C.; Fiss B. G.; Moores A. H.; Robert, E.; Rogers, R. D.; Friščić, T. "Metal-organic frameworks induce hypergolic ignition of bulk metals," *ChemRxiv.* **2021**, 1-10. DOI: 10.33774/chemrxiv-2021-f4dh4.
90. Jobin, O.; Mottillo, C.; Titi, H. M.; Marrett, J. M.; Arhangelskis, M.; Rogers, R. D.; Elzein, B.; Friščic, T.; Robert, É. "Metal-organic frameworks as hypergolic additives for hybrid rockets," *ChemRxiv.* **2021**, 1-23. DOI: 10.33774/chemrxiv-2021-v6ggv.
91. Rogers, R. D.; Kerton, F. M. "Marine-based Green Chemistry," *Green Chem.* **2022**, *24*, 2265-2266. DOI: 10.1039/d2gc90018a.

C. Presentations before National and International Meetings and Workshops:

1. R. D. Rogers, W. E. Hunter, M. Zaworotko, and J. L. Atwood, "Structural Characterization of the Mo-C Sigma Bond in a Series of Related Organometallic Compounds," Presented by R. D. Rogers before the American Crystallographic Association Winter Meeting (1978), Norman, OK, Abstract E3.
2. J. L. Atwood, R. D. Rogers, and W. E. Hunter, "The Nature of the Cyclopentadienyl Ligand in $(C_5H_5)_4W(CO)_2$," Presented by J. L. Atwood before the American Crystallographic Association Winter Meeting (1978), Norman, OK, Abstract PA3.
3. J. L. Atwood, W. E. Hunter, R. D. Rogers, and R. V. Bynum, "A Comparison of Metal-Carbon Sigma and Pi Bonds in the Closely Related Series of Compounds CpZrRR'," Presented by J. L. Atwood before the 176th ACS National Meeting (1978), Miami Beach, FL, Abstract INOR 031.
4. R. D. Rogers and J. L. Atwood, "The Synthesis and Crystal Structure of $Cs[Al_2Me_6N_3]$•2 p-Xylene," Presented by R. D. Rogers before the 176th ACS National Meeting (1978), Miami Beach, FL, Abstract INOR 032.
5. R. D. Rogers, W. E. Hunter, M. J. Zaworotko, and J. L. Atwood, "Structural Characterization of Organometallic Compounds Containing a Novel Bulky Alkoxide Ligand," Presented by R. D. Rogers before the 177th ACS National Meeting (1979), Honolulu, HA, Abstract INOR 052.
6. J. L. Atwood, R. Shakir, M. J. Zaworotko, R. D. Rogers, and E. A. Lewis, "Synthesis, Crystal Structure, and Solution Behavior of $K[Al_2(CH_3)_6SCN]$," Presented by J. L. Atwood before the 177th ACS National Meeting (1979), Honolulu, HA, Abstract INOR 070.
7. R. D. Rogers, R. V. Bynum, and J. L. Atwood, "The Synthesis and Crystal Structure of $(\eta^5\text{-}C_5H_5)_3Gd$•$OC_4H_8$," Presented by R. D. Rogers before the American Crystallographic Association Winter Meeting (1979), Honolulu, HA, Abstract L7.
8. J. L. Atwood, R. V. Bynum, R. D. Rogers, and W. E. Hunter, "The Reaction of Dichlorodicyclopentadienylzirconium(IV) with Pyrrolylsodium: Synthesis and Structure of $(\eta^5\text{-}C_5H_5)_2Ti(\eta^1\text{-}NC_4H_4)_2$, $(\eta^5\text{-}C_5H_5)_2Zr(\eta^1\text{-}NC_4H_4)_2$, and $[Na(THF)_6]_2[Zr(\eta^1\text{-}NC_4H_4)_6]$," Presented by J. L. Atwood before the IXth International Conference on Organometallic Chemistry (1979), Dijon, France, Abstract C46.
9. E. A. Lewis, R. D. Rogers, and J. L. Atwood, "Heats of Solution and of Liquid Clathrate Formation for some Alkali Metal Tri-Alkyl Aluminum Azide Complexes," Presented by E. A. Lewis before the 34th Annual Calorimetry Conference (1979), Kent, OH, Abstract Program Booklet.
10. R. D. Rogers and J. L. Atwood, "Bonding Modes of the $N(SiMe_3)_2$ Ligands: The Crystal and Molecular Structure of $SnBr[N(SiMe_3)_2]_3$," Presented by R. D. Rogers before the American Crystallographic Association Summer Meeting (1979), Boston, MA, Abstract M10.
11. R. V. Bynum, R. D. Rogers, and J. L Atwood, "A Major Difference in the Structural Chemistry of Zirconium and Hafnium: The Crystal Structure of Tetra(cyclopentadienyl)hafnium," Presented by R. V. Bynum before the American Crystallographic Association Winter Meeting (1980), Eufala, AL, Abstract PB3.
12. R. D. Rogers and J. L. Atwood, "The Effect of the Pentamethylcyclopentadienyl Ligand on the Titanium-Carbonyl Bond in $(\eta^5\text{-}C_5Me_5)_2Ti(CO)_2$," Presented by R. D. Rogers before the American Crystallographic Association Winter Meeting (1980), Eufala, AL, Abstract I3.
13. R. D. Rogers, E. A. Lewis, and J. L. Atwood, "Calorimetric Investigations into Liquid Clathrate Behavior," Presented by R. D. Rogers before the 179th ACS National Meeting (1980), Houston, TX, Abstract PHYS 185.
14. R. D. Rogers, J. L. Atwood, and E. A. Lewis, "Thermodynamic Studies Into the Behavior of the First Air-Stable Liquid Clathrates," Presented by R. D. Rogers before the 35th Annual Calorimetry Conference (1980), Eufala, AL, Abstract page 40.
15. S. R. Stobart, A. D. McMaster, J. L. Atwood, and R. D. Rogers, "Tetra(Indenyl)Tin: A Stereochemically Significant Molecule," Presented by S. R. Stobart before the 3rd International Conference on the Organometallic and Coordination Chemistry of Germanium, Tin and Lead (1980), Dortmund, West Germany, Abstract.
16. J. L. Atwood and R. D. Rogers, "The Incorporation of Aromatic Molecules Into Solid-State Organoaluminum Structures," Presented by J. L. Atwood before the International Symposium on Clathrate Compounds and Molecular Inclusion Phenomena, (1980), Jachranka-Warsaw, Poland, Abstract page 51.
17. R. V. Bynum, R. D. Rogers, W. E. Hunter, and J. L. Atwood, "Novel Pyrrolyl Complexes of Group IVB Metals," Presented by R. D. Rogers before the Second Congress of the North American Continent (1980), Las Vegas, NV, Abstract INOR 139.
18. R. D. Rogers, L. G. Canada, and J. L. Atwood, "The Crystal and Molecular Structure of $Mn_2Br_2(CO)_6Te_2Ph_2$," Presented by R. D. Rogers before the American Crystallographic Association Winter Meeting (1981), College Station, TX, Abstract PA15.
19. R. D. Rogers and J. L. Atwood, "Structural Studies of Group IV-B Metallocence Carbonyl and Phosphine Complexes," Presented by R. D. Rogers before the 181st ACS National Meeting (1981), Atlanta, GA, Abstract INOR 063.
20. E. Carmona, J. Marin, M. L. Poveda, R. D. Rogers, and J. L. Atwood, "Synthesis and Crystal Structure of Molybdenum and Tungsten Dihaptoacyl and Related Compounds," Presented by E. Carmona before the Xth International Conference on Organometallic Chemistry (1981), Toronto, Canada, Abstract 2E37.
21. J. L. Atwood, R. D. Rogers, M. J. Zaworotko, W. E. Hunter, and D. C. Hrncir, "New Type of Electron-Deficient Bond in the Anion $[Me_3Al\text{-}H\text{-}AlMe_3]^-$," Presented by J. L. Atwood before the Xth International Conference on Organometallic Chemistry (1981), Toronto, Canada, Abstract 1B01.
22. R. D. Rogers, D. C. Hrncir, and J. L. Atwood, "Structural Investigations of Liquid Clathrate Parent Complexes: The Crystal and Molecular Structures of $K_2[Al_4Me_{16}SO_4]$, $K_2[Al_4Me_{12}SO_4]$•0.5 p-$Me_2C_6H_4$, and $K[Al_7O_6C_{16}H_{48}]$•C_6H_6," Presented by R. D. Rogers before the XIIth International Congress and General Assembly of the International Union of Crystallography (1981), Ottawa, Canada, Abstract 09.3-01; *Acta Crystallogr., Sect. A*, **A37**, C217 (1981).

23. J. L. Atwood, R. D. Rogers, D. C. Hrncir, M. J. Zaworotko, and W. E. Hunter, "Classification Scheme for Aromatic 'Solvates' in Ionic Organometallic Compounds," Presented by J. L. Atwood before the XIIth International Congress and General Assembly of the International Union of Crystallography (1981), Ottawa, Canada, Abstract 04.1-09; *Acta Crystallogr., Sect. A*, **A37**, C83 (1981).
24. R. D. Rogers, R. Priester, D. C. Hrncir, and J. L. Atwood, "Synthesis and Structure of the $[Al_7O_6C_{16}H_{48}]^-$ Anion in $K[Al_7O_6C_{16}H_{48}]\bullet C_6H_6$ and $Cs[Al_7O_6C_{16}H_{48}]\bullet 3C_6H_5Me$," Presented by R. D. Rogers before the 182nd ACS National Meeting (1981), New York, NY, Abstract INOR 222.
25. R. D. Rogers, J. L. Atwood, D. F. Foust, and M. D. Rausch, "Formation and Structure of $Cp_2Y(C_6H_4\text{-o-}CH_2NMe_2)$," Presented by R. D. Rogers before the Sixteenth Rare Earth Research Conference (1983), Tallahassee, FL, Abstract A1; *J. Less-Comm. Metals*, **94**, 402 (1983).
26. C. M. Means, N. C. Means, H.-M. Zhang, W. E. Hunter, R. D. Rogers, and J. L. Atwood, "New High-Oxygen Content Organoaluminum Compounds. Synthesis, Structure, and Decomposition Pathways," Presented by N. C. Means before the 187th ACS National Meeting (1984), St. Louis, MO, Abstract INOR 019.
27. R. D. Rogers, "Structural Characterization of New Pentamethylcyclopentadienyl Derivatives of Group IVB," Presented by R. D. Rogers before the 187th ACS National Meeting (1984), St. Louis, MO, Abstract INOR 271.
28. A. L. Wayda, J. L. Dye, and R. D. Rogers, "Divalent Lanthanoid Synthesis in Liquid Ammonia," Presented by A. L. Wayda before the XXIIIrd International Conference on Coordination Chemistry (1984), Boulder, CO, Abstract.
29. R. D. Rogers and A. L. Wayda, "X-ray Structural Investigations of Organolanthanoids," Presented by R. D. Rogers before the NATO Advanced Study Institute on Fundamental and Technological Aspects of Organo-f-Element Chemistry (1984), Acquafredda di Maratea, Italy, Abstract page P12.
30. L. K. Kurihara and R. D. Rogers, "Lanthanide Crown Ether Complexes," Presented by L. K. Kurihara before the 190th ACS National Meeting (1985), Chicago, IL, Abstract INOR 213.
31. M. M. Benning and R. D. Rogers, "Monosubstituted Cyclopentadienyl Ligands in f-Element Chemistry," Presented by M. M. Benning before the 190th ACS National Meeting (1985), Chicago, IL, Abstract INOR 212.
32. D. W. Macomber, M.-H. Hung and R. D. Rogers, "Preparation, Reactivity, and Structure of Mononuclear η^5-Cyclopentadienyl Cobalt Carbene Complexes," Presented by D. W. Macomber before the 190th ACS National Meeting (1985), Chicago, IL, Abstract INOR 137.
33. R. D. Rogers and D. W. Macomber, "Structural Chemistry of Cobalt and Rhodium Carbene Complexes," Presented by R. D. Rogers before the 190th ACS National Meeting (1985), Chicago, IL, Abstract INOR 214.
34. A. L. Wayda, R. D. Rogers, M. P. Andrews, I. Mukerji, S. H. Bertz and G. Dabbagh, "Lanthanoid Metals in Unusual Coordination Environments: Implications for Organic, Organometallic and Inorganic Chemistry," Presented by A. L. Wayda before the Seventeenth Rare Earth Research Conference (1986), Hamilton, Ontario, Canada, Abstract G.3; *J. Less-Comm. Metals*, **126**, 416 (1987).
35. R. D. Rogers, A. L. Wayda, I. Mukerji and J. L. Dye, "Divalent Lanthanoid Synthesis in Liquid Ammonia. 3. The Synthesis and X-ray Crystal Structure of $(C_8H_8)Yb(C_5H_5N)_3\bullet 1/2\ C_5H_5N$," Presented by R. D. Rogers before the Seventeenth Rare Earth Research Conference (1986), Hamilton, Ontario, Canada, Abstract G.6; *J. Less-Comm. Metals*, **126**, 418 (1987).
36. R. D. Rogers and L. K. Kurihara, "Solvent Interactions in f-Element/Crown Ether Complexation Chemistry: Synthesis and Structure of (Dibenzo-18-crown-6)•$2(CH_3CN)$," Presented by R. D. Rogers before the Seventeenth Rare Earth Research Conference (1986), Hamilton, Ontario, Canada, Abstract C(III).5; *J. Less-Comm. Metals*, **127**, 268 (1987).
37. L. K. Kurihara and R. D. Rogers, "Crown Ether Complexes of Hydrated f-Element Salts," Presented by L. K. Kurihara before the Seventeenth Rare Earth Research Conference (1986), Hamilton, Ontario, Canada, Abstract C(III).6.
38. M. M. Benning, L. K. Kurihara and R. D. Rogers, "The Synthesis and Crystal Structure of $[UO_2Cl_4][(OH_3)(\text{Dibenzo-18-crown-6})]_2\bullet 2CH_3OH$," Presented by M. M. Benning before the Seventeenth Rare Earth Research Conference (1986), Hamilton, Ontario, Canada, Abstract C:(III).7; *J. Less-Comm. Metals*, **127**, 269 (1987).
39. A. Verma, D. W. Macomber and R. D. Rogers, "Intermolecular [2+2+2] Cycloadditions of Alkynes and Alkenes Mediated by (η^5-Cyclopentadienyl)cobalt Complexes," Presented by A. Verma before the 192nd ACS National Meeting (1986), Anaheim, CA, Abstract INOR 266.
40. L. B. Kool, M. D. Rausch, and R. D. Rogers, "Dual Ring Phosphination of a Titanium Mixed-Sandwich: A New Route to Heterobimetallic Derivatives," Presented by L. B. Kool before the 193rd ACS National Meeting (1987), Denver, CO, Abstract INORG 250.
41. M. Liang, D. W. Macomber, and R. D. Rogers, "Synthesis and Reactivity of a,b-Unsaturated Tungsten Carbene Complexes: X-ray Crystal Structure of $(CO)_5W[C(OCH_3)(\eta^5\text{-}CH{=}CH_2)]W(CO)_5$," Presented by M. Liang before the 193rd ACS National Meeting (1987), Denver, CO, Abstract INORG 222.
42. E. J. Voss and R. D. Rogers, "Neutral Solvent/Crown Ether Interactions. Crystallization and Structural Characterization of Dibenzo-18-crown-6•$2(CH_3CN)$ and Dibenzo-18-crown-6•$2(CH_3NO_2)$, Assignment of Specific C-H···O Interactions," Presented by E. J. Voss before the 193rd ACS National Meeting (1987), Denver, CO, Abstract INORG 179.
43. M. M. Benning and R. D. Rogers, "f-Element/Crown Ether Complexes. Hydrogen Bonding in Actinide Complexes of Crown Ethers," Presented by M. M. Benning before the 193rd ACS National Meeting (1987), Denver, CO, Abstract INORG 180.
44. R. D. Rogers, "f-Element/Crown Ether Complexes. Synthetic and Structural Chemistry of Crown Ether Complexes of 4f and 5f Metal Chlorides," Presented by R. D. Rogers before the 193rd ACS National Meeting (1987), Denver, CO, Abstract INORG 316.

45. M. M. Benning and R. D. Rogers, "f-Element/Crown Ether Complexes. Crown Conformations in Hydrogen Bonded Complexes of Hydrated Actinide Salts," Presented by M. M. Benning before the XIVth International Congress and General Assembly of the International Union of Crystallography (1987), Perth, Australia, Abstract 09.4-13.
46. R. D. Rogers, "f-Element/Crown Ether Complexes. Structural Effects of Solvent and Water of Hydration Hydrogen Bonding," Presented by R. D. Rogers before the XIVth International Congress and General Assembly of the International Union of Crystallography (1987), Perth, Australia, Abstract 09.4-12.
47. L. Nunez, G. Crabtree, J. Z. Liu, A. Umazawa, H. Claus, and R. D. Rogers, "Structural and Magnetic Characterization of Single Crystals of $YBa_2Cu_3O_{7-\square}$," Presented by L. Nunez before the 195th ACS National Meeting and 3rd Chemical Congress of North America (1988), Toronto, Canada, Abstract INOR 152.
48. A. N. Rollins and R. D. Rogers, "f-Element/Crown Ether Complexes. Synthetic and Structural Survey of 12-crown-4 Complexes of Hydrated Lanthanide Chlorides," Presented by A. N. Rollins before the 195th ACS National Meeting and 3rd Chemical Congress of North America (1988), Toronto, Canada, Abstract INOR 155.
49. R. D. Etzenhouser and R. D. Rogers, "Precipitation and Structural Characterization of Tetraethylene Glycol Complexes of Hydrated Lanthanide Chlorides, Comparison with Triethylene Glycol," Presented by R. D. Etzenhouser before the 195th ACS National Meeting and 3rd Chemical Congress of North America (1988), Toronto, Canada, Abstract INOR 154.
50. M. M. Benning and R. D. Rogers, "f-Element/Crown Ether Complexes. Thia-Crown Ether Interactions with Actinide Chlorides, Comparison with Crown Ether Results," Presented by M. M. Benning before the 195th ACS National Meeting and 3rd Chemical Congress of North America (1988), Toronto, Canada, Abstract INOR 521.
51. R. D. Rogers, "f-Element/Crown Ether Complexes. The Role of Water in Complexing 12-Crown-4, 15-Crown-5, Benzo-15-Crown-5, 18-Crown-6, and Dibenzo-18-crown-6 to Hydrated Lanthanide Chlorides," Presented by R. D. Rogers before the 195th ACS National Meeting and 3rd Chemical Congress of North America (1988), Toronto, Canada, Abstract INOR 520.
52. R. F. Henry and R. D. Rogers, "Mixed Donor 18-Membered Macrocyclic Complexes of Hydrated f-Element Salts," Presented by R. F. Henry before the Eighteenth Rare Earth Research Conference (1988), Lake Geneva, WI, Abstract P4.45.
53. L. Nunez, R. D. Rogers, G. Crabtree, J. Z. Lui, and H. Claus, "Structure and Magnetic Characterization of Single Crystals of $YBa_2Cu_3O_{7-\square}$. Effects of Annealing," Presented by L. Nunez before the Eighteenth Rare Earth Research Conference (1988), Lake Geneva, WI, Abstract P6.9.
54. A. N. Rollins and R. D. Rogers, "f-Element/Crown Ether Complexes. Preparation and Structural Characterization of Mixed Anion (NO_3^-,Cl^-) Complexes of Lanthanum(III) and Crown Ethers," Presented by A. N. Rollins before the Eighteenth Rare Earth Research Conference (1988), Lake Geneva, WI, Abstract P4.43.
55. R. D. Etzenhouser and R. D. Rogers, "Precipitation and Structural Characterization of Pentaethylene Glycol and Hexaethylene Glycol Complexes of Hydrated Lanthanide Chlorides, Comparison with Tetraethylene Glycol," Presented by R. D. Etzenhouser before the Eighteenth Rare Earth Research Conference (1988), Lake Geneva, WI, Abstract P4.44.
56. R. D. Rogers, "f-Element/Crown Ether Complexation. Crown Ethers and Glycols as Variably Dentate Donors for Uranyl(VI) Chloride," Presented by R. D. Rogers before the Eighteenth Rare Earth Research Conference (1988), Lake Geneva, WI, Abstract P4.48.
57. R. Henry and R. D. Rogers, "Synthesis of an 18 Membered, Mixed Donor, Macrocyclic Lanthanide Complex," Presented by R. Henry at the Fifth International Symposium on Inclusion Phenomena and Molecular Recognition (1988), Orange Beach, AL, Abstract D43.
58. A. N. Rollins and R. D. Rogers, "f-Element/Crown Ether Complexes: Effects of Anion Concentration on Complexation of Dibenzo-18-Crown-6, 18-Crown-6, 15-Crown-5, and 12-Crown-4 with Hydrated Lanthanide Chloride Salts," Presented by A. N. Rollins at the Fifth International Symposium on Inclusion Phenomena and Molecular Recognition (1988), Orange Beach, AL, Abstract D44.
59. R. D. Etzenhouser and R. D. Rogers, "Tying Up the Ln(III) Coordination Sphere One Site at a Time: Tri-, Tetra-, Penta- and Hexaethylene Glycol Complexes of Hydrated Lanthanide Chloride Salts," Presented by R. D. Etzenhouser at the Fifth International Symposium on Inclusion Phenomena and Molecular Recognition (1988), Orange Beach, AL, Abstract D45.
60. R. D. Rogers, "f-Element Crown Ether Complexes: Two Crystal Structures Containing Dicyclohexyl-24-Crown-8 Complexed to Na^+ and $H_5O_2^+$," Presented by R. D. Rogers at the Fifth International Symposium on Inclusion Phenomena and Molecular Recognition (1988), Orange Beach, AL, Abstract D20.
61. D. W. Macomber, M. H. Hung, M. Liang, P. Madhukar, A. G. Verma and R. D. Rogers, "Synthesis, Reactivity, and Structures of (□-Bis(Carbene))Dimetallic Complexes of Chromium and Tungsten," Presented by D. W. Macomber before the 197th ACS National Meeting (1989), Dallas, TX, Abstract INOR 173.
62. A. H. Bond and R. D. Rogers, "f-Element/Crown Ether Complexes. The Reactions of Uranyl Sulfate with Crown Ethers in Sulfuric Acid," Presented by A. H. Bond before the 197th ACS National Meeting (1989), Dallas, TX, Abstract INOR 212.
63. W. G. Hipple and R. D. Rogers, "f-Element/Crown Ether Complexes. Higher Order Hydronium Ion Crown Ether Complexes Stabilized by $[UO_2Cl_4]^{2-}$ Anions. Crystal Structure of $[(H_5O_2)(H_9O_4)(\text{Benzo-15-Crown-5})_2][UO_2Cl_4]$," Presented by W. G. Hipple before the 197th ACS National Meeting (1989), Dallas, TX, Abstract INOR 210.
64. A. N. Rollins and R. D. Rogers, "f-Element/Crown Ether Complexes. A Comparison of the Crystal Structures of $La(NO_3)_3$(15-Crown-5), $Eu(NO_3)_3$(15-Crown-5)[1], and $La(NO_3)_3$(Monoaza-15-Crown-5)[2]," Presented by A. N. Rollins before the 197th ACS National Meeting (1989), Dallas, TX, Abstract INOR 211.
65. R. D. Etzenhouser and R. D. Rogers, "f-Element/Crown Ether Complexes. Supramolecular Structures of the Intricate Hydrogen Bonding Networks in Hydrated Lanthanide Chloride Polyethylene Glycol Complexes," Presented by R. D. Etzenhouser before the 197th ACS National Meeting (1989), Dallas, TX, Abstract CHED 113.

66. R. D. Rogers, "f-Element/Crown Ether Complexes. Supramolecular Structures of the Intricate Hydrogen Bonding Networks in Hydrated Lanthanide Chloride Crown Ether Complexes," Presented by R. D. Rogers before the 197th ACS National Meeting (1989), Dallas, TX, Abstract CHED 112.
67. M. A. Banks, O. T. Beachley, Jr., H. J. Gysling, H. R. Luss, J. D. Maloney, and R. D. Rogers, "Neopentylgallium Compounds which Incorporate Group 15 and Group 16 Lewis Bases," Presented by M. A. Banks before the 197th ACS National Meeting (1989), Dallas, TX, Abstract INOR 376.
68. C. W. Spangler, T. J. Hall, M. L. Saindon, R. D. Rogers, R. K. McCoy, R. R. Birge, P. A. Fleitz, and C.-F. Zhang, "The Relationship Between Structure and Nonlinear Optical Properties in Donor-Acceptor Polyenes," Presented by C. W. Spangler before the International Conference on Materials for Non-Linear and Electro-Optics (1989), Cambridge, United Kingdom, Abstract.
69. M. Ogasa, M. D. Rausch, and R. D. Rogers, "Synthesis of Ring-Phosphinated Titanium(II) Mixed Sandwich Compounds (η^5-$C_5H_4PR_2$)Ti(η^7-$C_7H_6PR_2$) (R=CH_3, C_6H_5) and Their Conversion to Heterobimetallic Compounds," Presented by M. Ogasa before the 198th ACS National Meeting (1989), Miami, FL, Abstract INOR 380.
70. D. N. Kevill, M.-G. Park, and R. D. Rogers, "Studies of the Reactions of Diarylimidoyl Chlorides with Diazomethyllithium," Presented by D. N. Kevill before the International Symposium on Nitrogen-Rings and -Chains (1990), Frankfurt, Federal Republic of Germany.
71. L. Nuñez, B. Veal, G. W. Crabtree, W. K. Kwok, H. Claus, R. R. Rogers, and A. P. Paulikas, "Powder X-ray Diffraction Study on $YBa_2(Cu_{3-x}Fe_x)O_{7-\square}$," Presented by L. Nuñez before the APS National Meeting (1989).
72. A. H. Bond and R. D. Rogers, "Macrocyclic Complexation Chemistry of the Environmentally Toxic Metals," Presented by A. H. Bond before the 199th ACS National Meeting (1990), Boston, MA, Abstract INOR 282.
73. L. Nuñez and R. D. Rogers, "Solution Precursors to New Materials Via Macrocyclic Complexation Chemistry," Presented by L. Nuñez before the 199th ACS National Meeting (1990), Boston, MA, Abstract INOR 281.
74. A. N. Rollins and R. D. Rogers, "Macrocyclic Chemistry of the Lanthanides and Actinides," Presented by A. N. Rollins before the 199th ACS National Meeting (1990), Boston, MA, Abstrct INOR 280.
75. R. D. Rogers, "Macrocyclic Complexation Chemistry: Uranyl Salts and Crown Ethers in Acidic Media," Presented by R. D. Rogers before the 199th ACS National Meeting (1990), Boston, MA, INOR 279.
76. W. M. Tsai, M. D. Rausch and R. D. Rogers, "Synthetic and Structural Studies on Pentabenzylcyclopentadienyliron Dicarbonyl Derivatives," Presented by W. M. Tsai before the 199th ACS National Meeting (1990), Boston, MA, Abstract INOR 291.
77. R. J. Strittmatter, B. E. Bursten, L. F. Rhodes, D. E. Morris, and R. D. Rogers, "Readily-Accessible Oxidation of d^0 Organozirconium Compounds: The Electronic Structure of (η^5-$C_5H_5)_3ZrX$ Compounds," Presented by R. J. Strittmatter before the 199th ACS National Meeting (1990), Boston, MA, Abstract INOR 313.
78. G. H. Robinson, B. Lee and R. D. Rogers, "The Interaction of Trimethylgallium with Macrocyclic Amines," Presented by G. H. Robinson before the 199th ACS National Meeting (1990), Boston, MA, Abstract INORG 152.
79. R. D. Rogers, "Macrocycle Complexation Chemistry of Lanthanide Chlorides. Can You Guess Structure from Elemental Data?" Presented by R. D. Rogers before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 617.
80. A. N. Rollins and R. D. Rogers, "Macrocycle Complexation Chemistry. Direct Comparison of Lanthanide Complexation with 18-Crown-6 and Pentaethylene Glycol," Presented by A. N. Rollins before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 631.
81. R. F. Henry and R. D. Rogers, "Macrocycle Complexation Chemistry of Lanthanides with Sulfur Donors," Presented by R. F. Henry before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 630.
82. A. H. Bond and R. D. Rogers, "Structural Comparison of Hard Donor Crown Ether and Polyethylene Glycol Complexes of Pb^{2+} and Bi^{3+}," Presented by A. H. Bond before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 632.
83. M. D. Rausch, W.-M. Tsai, and M. Ogasa, "Synthetic and Structural Studies on Pentabenzylcyclopentadienyl and Titanium-Containing Heterobimetallic Compounds," Presented by M. D. Rausch before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 607.
84. K. C. Sturge, R. D. Rogers, and M. J. Zaworotko, "Sterically Crowded Iron(II) Mixed Sandwich Complexes," Presented by K. C. Sturge before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 559.
85. N. Burford, B. W. Royan, R. E. V. H. Spence, T. S. Cameron, A. Linden, and R. D. Rogers, "Novel Acceptor Features for the Heavier Elements of Group 13 Allowing a Reclassification of the Coordinative Bonding Modes of Phosphine Chalcogenides," Presented by N. Burford before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 592.
86. S. Christie, M. J. Zaworotko and R. D. Rogers, "2-Oxybenzoate Aluminum Complexes," Presented by S. Christie before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 629.
87. N. Burford, R. E. V. H. Spence, T. S. Cameron, B. Borecka, R. D. Rogers, and J. F. Richardson, "The Reactions of Group 13 Acids with Diaminothiophosphoryl Chlorides," Presented by R. E. V. H. Spence before the 73rd Canadian Chemical Congress (1990), Halifax, Nova Scotia, Canada, Abstract 661.
88. J. R. Peterson, H. D. Do and R. D. Rogers, "Chemical and Biological Investigations of Anticancer Lignan Lactones," Presented by J. R. Peterson and H. D. Do before the 22nd National Medicinal Chemistry Symposium (1990), Austin, TX.
89. A. H. Bond and R. D. Rogers, "Polyethylene Glycols as Ionizable Complexing Agents of Bi^{3+}," Presented by A. H. Bond before the 201st ACS National Meeting (1991), Atlanta, GA, Abstract INOR 039.

90. L. Nunez, R. D. Rogers, G. W. Crabtree, U. Welp, A. Umezawa, K. Vandervoort, and Y. Fang, "Magnetic and Superconducting Properties of $YBa_2Cu_{3-x}Fe_xO_{7-\delta}$ Single Crystals," Presented by L. Nunez before the 201st ACS National Meeting (1991), Atlanta, GA, Abstract INOR 038.
91. A. N. Rollins and R. D. Rogers, "Electrocrystallization of Lanthanide Polyether Complexes," Presented by A. N. Rollins before the 201st ACS National Meeting (1991), Atlanta, GA, Abstract INOR 136.
92. R. D. Rogers, "Crown Ether vs. Polyethylene Glycol Complexation of $NdCl_3$. A Structural Study of Why the Chelate Effect is Greater than the Macrocyclic Effect in f-Element Extractions," Presented by R. D. Rogers before the 201st ACS National Meeting (1991), Atlanta, GA, Abstract INOR 135.
93. A. H. Bond and R. D. Rogers, "The Influence of Cd Halide Polymer Formation on Cd Polyether Structures," Presented by A. H. Bond before the American Crystallographic Association Meeting (1991), Toledo, OH, Abstract PJ06.
94. R. D. Rogers, "The Effect of Decreasing Ionic Size on the Primary Coordination Sphere of Hydrated Lanthanide Chloride Polyether Complexes," Presented by R. D. Rogers before the American Crystallographic Association Meeting (1991), Toledo, OH, Abstract C14.
95. E. P. Horwitz, M. L. Dietz, and R. Rogers, "A Combined Transuranic-Strontium-Technetium Extraction/Recovery Process," Presented by E. P. Horwitz before the 15th Actinide Separations Conference (1991), Charleston, SC, Abstract book page 27.
96. R. C. Gatrone, M. L. Dietz, A. H. Bond, R. D. Rogers, and E. P. Horwitz, "The Influence of Isomerization of Crown Ethers on the Extraction of Strontium and Potassium from Nitrate Media," Presented by R. C. Gatrone before the 7th Symposium on Separation Science and Technology for Energy Applications (1991), Knoxville, TN, Abstract book page 21.
97. R. D. Rogers, A. H. Bond, and C. B. Bauer, "Aqueous Biphase Systems for Liquid/Liquid Extraction of f-Elements Utilizing Polyethylene and Polypropylene Glycols," Presented by R. D. Rogers before the 7th Symposium on Separation Science and Technology for Energy Applications (1991), Knoxville, TN, Abstract book page 60.
98. E. P. Horwitz, M. L. Dietz, R. Chiarizia, H. Diamond, and R. Rogers, "Recent Advances in Solvent Extraction and Extraction Chromatography for Processing Radioactive Waste," Presented by E. P. Horwitz before the 7th Symposium on Separation Science and Technology for Energy Applications (1991), Knoxville, TN, Abstract book page 95.
99. C. B. Bauer and R. D. Rogers, "Liquid/Liquid Extraction of the f-Elements Utilizing Aqueous Biphase Systems," Presented by C. B. Bauer before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract I&EC 10.
100. A. H. Bond and R. D. Rogers, "Extraction of Pb^{2+} Using Aqueous Polyethylene Glycol Biphasic Systems," Presented by A. H. Bond before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract I&EC 009.
101. A. N. Rollins and R. D. Rogers, "Comparison of the Crystal Structure and Molecular Models of CMPO," Presented by A. N. Rollins before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract I&EC 008.
102. A. H. Bond and R. D. Rogers, "Polyethylene Glycol Complexation of Pb^{2+}," Presented by A. H. Bond before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract INOR 528.
103. C. B. Bauer and R. D. Rogers, "A Structural Comparison Between the Complexes of Tetraethylene Glycol with Lanthanide(III) Chlorides and Nitrates," Presented by C. B. Bauer before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract INOR 527.
104. R. D. Rogers, A. H. Bond, and C. B. Bauer, "Aqueous Biphasic Systems for Liquid/Liquid Extraction of Environmentally Toxic Heavy Metals," Presented by R. D. Rogers before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract I&EC 088. (Invited Symposium Presentation.)
105. T. M. Gilbert and R. D. Rogers, "Metathesis Chemistry of $Mo_2Cl_2(DME)_2$: Synthesis and X-ray Diffraction Studies of $Mo_2(OR_F)_6$ (Mo=Mo) Complexes," Presented by T. M. Gilbert before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract INOR 464.
106. T. M. Gilbert and R. D. Rogers, "Synthesis and Absorption Spectra of the "Dialkylidynes" $(RO)_3W/C\text{-}C/W(OR)_3$ (OR = $OCMe_3$, $OCMe_2CF_3$, $OCMe_2Et$): Excited State Transition Metal-Carbon p Conjugation," Presented by T. M. Gilbert before the 203rd ACS National Meeting (1992), San Francisco, CA, Abstract INOR 308.
107. R. D. Rogers, C. B. Bauer, and A. H. Bond, "Aqueous Biphasic Polyethylene Glycol/Salt Systems for Actinide Ion Separation and Extraction," Presented by R. D. Rogers before the 16th Annual Actinide Separations Conference (1992), Estes Park, CO, Abstract book page 32.
108. M. L. Dietz, E. P. Horwitz, and R. D. Rogers, "A Combined Transuranic-Strontium Extraction/Recovery Process," Presented by M. L. Dietz before the 16th Actinide Separations Conference (1992), Estes Park, CO, Abstract book page 33.
109. E. P. Horwitz, M. L. Dietz, and R. D. Rogers, "A Combined Transuranic-Strontium Extraction/Recovery Process," Presented by E. P. Horwitz before the 204th ACS National Meeting (1992), Washington, DC, Abstract I&EC 108.
110. A. H. Bond and R. D. Rogers, "Structural Analyses of Crown Ether and Polyethylene Glycol Complexes of Cd^{2+}, Hg^{2+}, and Pb^{2+}," Presented by A. H. Bond before the XVII International Symposium on Macrocyclic Chemistry (1992), Provo, UT, Abstract P13.
111. C. B. Bauer and R. D. Rogers, "Structural Analyses of Crown Ether and Polyethylene Glycol Complexes of Lanthanide(III) Ions," Presented by C. B. Bauer before the XVII International Symposium on Macrocyclic Chemistry (1992), Provo, UT, Abstract P7.
112. M. L. Dietz, E. P. Horwitz, R. C. Gatrone, A. H. Bond, and R. D. Rogers, "The Influence of Isomerization on the Extraction of Strontium and Potassium from Nitrate Media by Dicyclohexyl-18-Crown-6," Presented by M. L. Dietz before the XVII International Symposium on Macrocyclic Chemistry (1992), Provo, UT, Abstract P30.

113. R. D. Rogers, A. H. Bond, and C. B. Bauer, "The Crown Ether Extraction of Group 1 and 2 Cations in Polyethylene Glycol-Based Aqueous Biphasic Systems at High Alkalinity," Presented by R. D. Rogers before the XVII International Symposium on Macrocyclic Chemistry (1992), Provo, UT, Abstract IS19. (Invited Symposium Presentation.)
114. J. R. Peterson, J. K. Zjawiony, and R. D. Rogers, "A New Synthesis and Optical Resolution of the Taxol Side Chain," Presented by J. R. Peterson before the 2nd National Cancer Institute Workshop on Taxol and Taxus (1992), Alexandria, VA, Poster E-6.
115. A. N. Rollins and R. D. Rogers, "Conformation Analysis of 18-Crown-6 in Complexes with Hydrated Lanthanide Chlorides," Presented by A. N. Rollins before the 205th ACS National Meeting (1993), Denver, CO, Abstract INOR 289.
116. A. H. Bond and R. D. Rogers, "Structural Studies of Aza-18-Crown-6 Complexes of $HgCl_2$, $HgBr_2$, and HgI_2," Presented by A. H. Bond before the 205th ACS National Meeting (1993), Denver, CO, Abstract INOR 286.
117. C. B. Bauer and R. D. Rogers, "Inner Sphere Versus Outer Sphere Coordination of Hexaethylene Glycol in Complexes of Lanthanide(III) Chlorides and Nitrates," Presented by C. B. Bauer before the 205th ACS National Meeting (1993), Denver, CO, Abstract INOR 069.
118. M. L. Jezl, T. S. Forbes, T. Amaro, and R. D. Rogers, "Polyethylene Glycol Complexes of $Sr(NO_3)_2$," Presented by M. L. Jezl before the 205th ACS National Meeting (1993), Denver, CO, Abstract INOR 401.
119. T. M. Gilbert, F. J. Hadley, and R. D. Rogers, "Synthesis, Structure and Nonlinear Optical Properties of a,w-Diphenyl Polyenes Coordinated to Transition Metal Centers," Presented by T. M. Gilbert before the 205th ACS National Meeting (1993), Denver, CO, Abstract INOR 588.
120. A. H. Bond and R. D. Rogers, "Partitioning of Cd^{2+} in Polyethylene Glycol Based Aqueous Biphasic Systems," Presented by A. H. Bond before the 205th ACS National Meeting (1993), Denver, CO, Abstract I&EC 025.
121. C. B. Bauer and R. D. Rogers, "The Extraction of Group 1 and 2 Cations in Aqueous Biphasic Systems," Presented by C. B. Bauer before the 205th ACS National Meeting (1993), Denver, CO, Abstract I&EC 026.
122. R. D. Rogers, A. H. Bond, C. B. Bauer, M. L. Jezl, and A. N. Rollins, "Is Metal Cation Recognition Possible with Acyclic Crown Ether Analogs? An Analysis of the Metal Directed Coordination Modes of Polyethylene Glycols," Presented by R. D. Rogers before the 205th ACS National Meeting (1993), Denver, CO, Abstract I&EC 108.
123. A. H. Bond and R. D. Rogers, "Crystallographic Challenges in the Structural Characterization of Aza-18-Crown-6 Versus 18-Crown-6 Metal Complexes," Presented by A. H. Bond before the American Crystallographic Association Meeting (1993), Albuquerque, NM, Abstract PE01.
124. C. B. Bauer and R. D. Rogers, "Supramolecular Structural Variations in Pentaethylene Glycol Complexes of Lanthanide(III) Nitrates Resulting from Variable Hydrogen Bonding Environments," Presented by C. B. Bauer before the American Crystallographic Association Meeting (1993), Albuquerque, NM, Abstract PD07.
125. R. D. Rogers, "Polyethylene Glycol Complexes of f-Element Salts: Structural Clues to Complexation Behavior," Presented by R. D. Rogers before the American Crystallographic Association Meeting (1993), Albuquerque, NM, Abstract Z003. (Invited Symposium Presentation.)
126. E. P. Horwitz, M. L. Dietz, H. Diamond, R. D. Rogers, and R. A. Leonard, "Advanced Chemical Separations in Support of the Clean Option Strategy," Presented by E. P. Horwitz before the 17th Actinide Separations Conference (1993), Pasco, WA, Abstract book page 52.
127. A. H. Bond and R. D. Rogers, "Crystallographic Investigation of 15-Crown-5 Complexes of CdX_2 (X = Cl, Br, I, NO_3)," Presented by A. H. Bond before the XVIth Congress and General Assembly of the International Union of Crystallography/IUCr XVI Meeting (1993), Beijing, China, Abstract PS-07.01.17.
128. R. D. Rogers, "How Metal Ion Character Controls the Coordination Mode of Polyethylene Glycol," Presented by R. D. Rogers before the XVIth Congress and General Assembly of the International Union of Crystallography/IUCr XVI Meeting (1993), Beijing, China, Abstract OPS-07.01.9.
129. D. M. Roden, A. H. Bond, and R. D. Rogers, "Structural Studies of Substituted Crown Ether Complexes of Bismuth(III) Halides," Presented by D. M. Roden before the 206th ACS National Meeting (1993), Chicago, IL, Abstract INOR 187.
130. Y. Song and R. D. Rogers, "Polyethylene Glycol-Based Aqueous Biphasic Systems for the Extraction of Transition Metal Ions," Presented by Y. Song before the 206th ACS National Meeting (1993), Chicago, IL, Abstract INOR 133.
131. C. B. Bauer and R. D. Rogers, "Anion Directed Coordination in Lanthanide(III) Complexes of Polyethylene Glycols," Presented by C. B. Bauer before the 206th ACS National Meeting (1993), Chicago, IL, Abstract INOR 110.
132. T. M. Gilbert and R. D. Rogers, "Spectroscopic and Structural Investigation of the Nature of the Frontier Orbitals in Hexa(alkoxy)- and Hexa(fluoroalkoxy)ditungsten Compounds $W_2[OCMe_x(CF_3)_{3-x}]$ (x = 1-3)," Presented by T. M. Gilbert before the 206th ACS National Meeting (1993), Chicago, IL, Abstract INOR 355.
133. T. M. Gilbert and R. D. Rogers, "Nonlinear Optical Properties of Substituted Stilbenes Coordinated to (Tricarbonyl)chromium Fragments," Presented by T. M. Gilbert before the 206th ACS National Meeting (1993), Chicago, IL, Abstract INOR 356.
134. E. P. Horwitz, M. L. Dietz, H. Diamond, R. D. Rogers, and R. A. Leonard, "Combined TRU-Sr Extraction/Recovery Process," Presented by M. L. Dietz. Proceedings International Solvent Extraction Conference/ISEC '93, York, England, Vol. 3, pp. 1805-1812, D. H. Logsdail and M. J. Slater (eds.), Elsevier, London (1993).
135. R. D. Rogers, A. H. Bond, and C. B. Bauer, "Polyethylene Glycol-Based Aqueous Biphasic Systems for Liquid/Liquid Extraction of Environmentally Toxic Heavy Metals," Presented by R. D. Rogers. Proceedings International Solvent Extraction Conference/ISEC '93, York, England, Vol. 3, pp. 1641-1648, D. H. Logsdail and M. J. Slater (eds.), Elsevier, London (1993).

136. E. P. Horwitz, M. L. Dietz, H. Diamond, R. D. Rogers, and R. A. Leonard, "Advanced Chemical Separations in Support of the Clean Option Strategy," Presented by E. P. Horwitz before the Global '93 Conference on Future Nuclear Systems: Emerging Fuel Cycles and Waste Disposal Options (1993), Seattle, WA.
137. R. D. Rogers, C. B. Bauer, and A. H. Bond, "Crown Ethers as Actinide Extractants in Acidic Aqueous Biphasic Systems: Partitioning Behavior in Solution and Crystallographic Analyses of the Solid State," Presented by R. D. Rogers before the Actinides-93 International Conference (1993), Santa Fe, NM, Abstract 77. (Invited Symposium Presentation.)
138. R. D. Rogers, A. H. Bond, and C. B. Bauer, "Novel Polyethylene Glycol-Based Aqueous Biphasic Systems for the Extraction of Strontium and Cesium," Presented by R. D. Rogers before the 8th Symposium on Separation Science and Technology for Energy Applications (1993), Gatlinburg, TN, Abstract book page 18.
139. L. Nunez, G. F. Vandegrift, and R. D. Rogers, "In Situ Magnetically Assisted Chemical Separation," Presented by L. Nunez before the 8th Symposium on Separation Science and Technology for Energy Applications (1993), Gatlinburg, TN, Abstract book page 40.
140. D. J. Chaiko and R. D. Rogers, "Aqueous Biphasic Systems for Radioactive Waste Pretreatment," Presented by D. J. Chaiko before the Efficient Separations and Processing Integrated Program (ESPIP) Technical Information Exchange Meeting (1994), Dallas, TX, Abstract book page 17.
141. E. P. Horwitz, M. L. Dietz, H. Diamond, R. D. Rogers, and R. A. Leonard, "Advanced Chemical Separations in Support of the Clean Option," Presented by P. Horwitz before the Efficient Separations and Processing Integrated Program (ESPIP) Technical Information Exchange Meeting (1994), Dallas, TX, Abstract book page 39.
142. F. E. Putnam, A. H. Bond, and R. D. Rogers, "Triethylene Glycol Dimethyl Ether Complexes of CdX_2 (X = C1, Br, I)," Presented by F. E. Putnam before the 207th ACS National Meeting (1994), San Diego, CA, Abstract INOR 347.
143. D. M. Roden, A. H. Bond, and R. D. Rogers, "Structural Studies of Tetra-, Penta- and Hexaethylene Glycol Complexes of Lead Nitrate," Presented by D. M. Roden before the 207th ACS National Meeting (1994), San Diego, CA, Abstract INOR 346.
144. C. B. Bauer and R. D. Rogers, "Structural Analyses of Group 2 Metal/Polyethylene Glycol Complexes," Presented by C. B. Bauer before the 207th ACS National Meeting (1994), San Diego, CA, Abstract INOR 472.
145. A. H. Bond and R. D. Rogers, "Crystallographic Analysis of the Stereochemically Active Lone Pair in Bismuth(III) Halide-Polyethylene Glycol Complexes," Presented by A. H. Bond before the 207th ACS National Meeting (1994), San Diego, CA, Abstract INOR 471.
146. D. M. Roden, Y. Song, M. L. Jezl, C. B. Bauer, A. H. Bond, and R. D. Rogers, "Pertechnetate Partitioning in Polyethylene Glycol-Based Aqueous Biphasic Systems: Applications from Nuclear Medicine to Nuclear Waste," Presented by D. M. Roden before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 052.
147. Y. Song and R. D. Rogers, "The Investigation of Polymer-Salt Based Aqueous Biphasic Systems for the Separation of Metal Ions," Presented by Y. Song before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 054.
148. A. H. Bond, D. M. Roden, F. E. Putnam, and R. D. Rogers, "Uptake of Metal Ions by DiphonixJ Resin From NaCl and $CaC1_2$ Solutions," Presented by A. H. Bond before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 037.
149. A. H. Bond and R. D. Rogers, "The Partitioning of Heavy Metal Halides in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by A. H. Bond before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 019.
150. C. B. Bauer and R. D. Rogers, "The Design of Metal Ion Specific Extractants for Use in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by C. B. Bauer before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 064.
151. R. D. Rogers, S. D. Rein, C. B. Bauer, J. Zhang, and A. H. Bond, "The Partitioning Behavior of TcO_4^- and I^- in Polyethylene Glycol-Based Aqueous Biphasic Systems Prepared from Simulated Liquid Radioactive Hanford Tank Wastes," Presented by R. D. Rogers before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 057.
152. R. D. Rogers, A. H. Bond, C. B. Bauer, and Y. Song, "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by R. D. Rogers before the 207th ACS National Meeting (1994), San Diego, CA, Abstract I&EC 003. (Invited Symposium Presentation.)
153. C. B. Bauer and R. D. Rogers, "Pseudo-Cyclic Behavior of Acyclic Polyether Ligands in Complexes with Lanthanide(III) Ions," Presented by C. B. Bauer before the XIX International Symposium on Macrocyclic Chemistry (1994), Lawrence, KS, Abstract A3.
154. A. H. Bond, D. M. Roden, and R. D. Rogers, "Mono- and Dicyclohexyl Substituted Crown Ether Complexes of Bismuth(III)," Presented by A. H. Bond before the XIX International Symposium on Macrocyclic Chemistry (1994), Lawrence, KS, Abstract A5.
155. R. D. Rogers and A. H. Bond, "Structural Analysis of cis-syn-cis-4,5'-Ditertbutyl-dicyclohexyl-18-crown-6 and cis-anti-cis-4,5'-Ditertbutyl-dicyclohexyl-18-crown-6•$2CH_3CN$: Comparison with Unsubstituted Dicyclohexyl-18-crown-6," Presented by R. D. Rogers before the XIX International Symposium on Macrocyclic Chemistry (1994), Lawrence, KS, Abstract ST7.
156. A. H. Bond, F. E. Putnam, and R. D. Rogers, "Structural Variations in Complexes of Cadmium Halides with Triethylene Glycol and its Dimethyl Ether Derivative," Presented by A. H. Bond before the American Crystallographic Meeting (1994), Atlanta, GA, Abstract PIC16.
157. C. B. Bauer and R. D. Rogers, "Structural Comparison of Lanthanide(III) Nitrate Complexes with Tetraethylene Glycol and Tetraethylene Glycol Dimethyl Ether Ligands," Presented by C. B. Bauer before the American Crystallographic Meeting (1994), Atlanta, GA, Abstract PIC17.
158. L. R. Morss and R. D. Rogers, "Synthesis and Crystal Structure of an f-Element Complex with Strong M-N Bonds," Presented by L. R. Morss before the 208th ACS National Meeting (1994), Washington, DC, Abstract I&EC 021.

159. A. H. Bond, R. D. Rogers, and F. E. Putnam, "Structural Characterization of Five Donor Cyclic and Acyclic Polyether Complexes of Cadmium Halides," Presented by A. H. Bond before the 208th ACS National Meeting (1994), Washington, DC, Abstract INOR 151.
160. C. B. Bauer and R. D. Rogers, "Structural Investigation of Lanthanide(III) Nitrates Complexed With Triethylene Glycol Ligands," Presented by C. B. Bauer before the 208th ACS National Meeting (1994), Washington, DC, Abstract INOR 150.
161. A. H. Bond and R. D. Rogers, "Bromide and Iodide Partitioning in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by A. H. Bond before the 208th ACS National Meeting (1994), Washington, DC, Abstract I&EC 016.
162. C. B. Bauer and R. D. Rogers, "Separation of Group 1 and 2 Cations in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by C. B. Bauer before the 208th ACS National Meeting (1994), Washington, DC, Abstract I&EC 015.
163. R. D. Rogers, A. H. Bond, C. B. Bauer, Y. Song, J. Zhang, and R. R. Chomko, "Polyethylene Glycol-Based Aqueous Biphasic Systems: Inexpensive, Nontoxic Alternatives for Hanford Tank Remediation," Presented by R. D. Rogers before the 208th ACS National Meeting (1994), Washington, DC, Abstract I&EC 017.
164. R. D. Rogers, "The Division of Industrial and Engineering Chemistry's Separation Science and Technology Subdivision: The Place for Separations Scientists," Presented by R. D. Rogers before the 208th ACS National Meeting (1994), Washington, DC, Abstract I&EC 010.
165. J. Zhang and R. D. Rogers, "Pertechnetate/Molybdate Separation Using Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by J. Zhang before the 209th ACS National Meeting (1995), Anaheim, CA, Abstract I&EC 023.
166. C. B. Bauer and R. D. Rogers, "Cation and Anion Influence on the Partitioning of Group 1 and 2 Metals in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by C. B. Bauer before the 209th ACS National Meeting (1995), Anaheim, CA, Abstract I&EC 022.
167. A. H. Bond and R. D. Rogers, "Polyethylene Glycol-Based Aqueous Biphasic Partitioning Behavior of Monovalent Anions," Presented by A. H. Bond before the 209th ACS National Meeting (1995), Anaheim, CA, Abstract I&EC 021.
168. R. D. Rogers, A. H. Bond, and C. B. Bauer, "Extraction and Recovery of Dyes and Metal/Dye Complexes with Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by R. D. Rogers before the 209th ACS National Meeting (1995), Anaheim, CA, Abstract I&EC 020.
169. R. D. Rogers, "The Division of Industrial and Engineering Chemistry's Separation Science and Technology Subdivision: The Place for Separations Scientists," Presented by R. D. Rogers before the 209th ACS National Meeting (1995), Anaheim, CA, Abstract I&EC 019.
170. C. B. Bauer and R. D. Rogers, "Water Soluble Calixarenes as Possible Metal Ion Extractants in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by C. B. Bauer before the 6th Conference on Separation of Ionic Solutes/SIS'95 (1995), Piestany Spa, Slovakia, Abstract book page 41.
171. R. D. Rogers, "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by R. D. Rogers before the 6th Conference on Separation of Ionic Solutes/SIS'95 (1995), Piestany Spa, Slovakia, Abstract book page 24. (Invited Symposium Presentation.)
172. J. Zhang and R. D. Rogers, "Effects of Increasing Polymer Hydrophobicity on Distribution Ratios of TcO_4^- in Polyethylene/Polypropylene Glycol-Based Aqueous Biphasic Systems," Presented by J. Zhang before the 9th International Conference on Partitioning in Aqueous Two-Phase Systems: Advances in the Uses of Polymers in Cell Biology, Biotechnology and Environmental Sciences (1995), Zaragoza, Spain, Abstract book.
173. C. B. Bauer and R. D. Rogers, " Partitioning Behavior of Group 1 and 2 Cations in Aqueous Biphasic Systems: The Development of Predictive Models Based on Thermodynamic and System Composition Data," Presented by C. B. Bauer before the 9th International Conference on Partitioning in Aqueous Two-Phase Systems: Advances in the Uses of Polymers in Cell Biology, Biotechnology and Environmental Sciences (1995), Zaragoza, Spain, Abstract book.
174. R. D. Rogers, A. H. Bond, C. B. Bauer, and J. Zhang, "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems: Correlation of Partitioning Behavior with Available Thermodynamic Hydration Data," Presented by R. D. Rogers before the 9th International Conference on Partitioning in Aqueous Two-Phase Systems: Advances in the Uses of Polymers in Cell Biology, Biotechnology and Environmental Sciences (1995), Zaragoza, Spain, Abstract book. (Invited Symposium Presentation.)
175. R. D. Rogers, A. H. Bond, C. B. Bauer, J. Zhang, and S. T. Griffin, "Metal Ion Separations in Polyethylene Glycol-Based Aqueous Biphasic Systems: The Outlook for Commercial Applications," Presented by R. D. Rogers before the 9th International Conference on Partitioning in Aqueous Two-Phase Systems: Advances in the Uses of Polymers in Cell Biology, Biotechnology and Environmental Sciences (1995), Zaragoza, Spain, Abstract book. (Invited Symposium Presentation.)
176. T. M. Gilbert, A. H. Bond, C. B. Bauer, and R. D. Rogers, "Structural Aspects of Triply Bonded Homoleptic Hexa(tertiaryalkoxide)dimolybdenum and ditungsten Compounds," Presented by T. M. Gilbert before the 210th ACS National Meeting (1995), Chicago, IL, Abstract INOR 200.
177. T. M. Gilbert, M. D. Simmons, F. J. Hadley, C. B. Bauer, and R. D. Rogers, "Syntheses and Structures of Substituted a,w-Diphenylhexatrienes Coordinated to (Tricarbonyl)chromium Fragments," Presented by T. M. Gilbert before the 210th ACS National Meeting (1995), Chicago, IL, Abstract INOR 201.
178. R. D. Rogers, "The Division of Industrial and Engineering Chemistry's Separation Science and Technology Subdivision: The Place for Separations Scientists," Presented by R. D. Rogers before the 210th ACS National Meeting (1995), Chicago, IL, Abstract I&EC 025.
179. J. Zhang and R. D. Rogers, "Structural Investigations of Lanthanum(III) Isothiocyanate Complexes with Polyethylene Glycol," Presented by J. Zhang before the 210th ACS National Meeting (1995), Chicago, IL, Abstract INOR 505.

180. J. Zhang and R. D. Rogers, "Structural Investigations of Lanthanide(III) Hydroxyethane-1,1-diphosphonic Acid (HEDPA) Complexes," Presented by J. Zhang before the 210th ACS National Meeting (1995), Chicago, IL, Abstract I&EC 026.
181. J. Zhang and R. D. Rogers, "Predicting Distribution Ratios of Pertechnetate in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by J. Zhang before the 210th ACS National Meeting (1995), Chicago, IL, Abstract I&EC 027.
182. E. Wodziak, J. Zhang, and R. D. Rogers, "Investigation of the Salting-Out of Polyethylene Glycol-2000 in Aqueous Biphasic Systems," Presented by E. Wodziak before the 210th ACS National Meeting (1995), Chicago, IL, Abstract I&EC 028.
183. H. McIlwraith, J. Zhang, and R. D. Rogers, "Structural Studies of Lanthanide(III) 1,2-Ethylene-diphosphonic Acid Complexes," Presented by H. McIlwraith before the 210th ACS National Meeting (1995), Chicago, IL, Abstract I&EC 029.
184. J. Zhang, S. T. Griffin, and R. D. Rogers, "The Effects of Halide Anions on the Partitioning Behavior of Pertechnetate in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by J. Zhang before the 9th Symposium on Separation Science and Technology for Energy Applications (1995), Gatlinburg, TN, Abstract book page 61.
185. R. D. Rogers, A. H. Bond, and E. P. Horwitz, "New Technetium-99m Generator Technologies Utilizing Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by R. D. Rogers before the 9th Symposium on Separation Science and Technology for Energy Applications (1995), Gatlinburg, TN, Abstract book page 17.
186. R. D. Rogers, A. H. Bond, J. Zhang, and C. B. Bauer, "Polyethylene Glycol-Based Aqueous Biphasic Systems: A Potential ^{99m}Tc Generator Technology," Presented by R. D. Rogers before the International Chemical Congress of Pacific Basin Societies/Pacifichem'95 (1995) Honolulu, HA, Abstract INOR 1137.
187. M. T. Tran, R. P. Planalp, C. B. Bauer, and R. D. Rogers, "Titanium and Vanadium Complexes of Tripropoxideamine Derivative Ligand, $N(CH_2C(CH_3)_2O\text{-})_3$," Presented by R. P. Planalp before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract INOR 438.
188. N. M. Tsoupas, N. Ye, R. P. Planalp, C. B. Bauer, R. D. Rogers, and M. W. Brechbiel, "Metal Complexes of Novel Hexadentate Ligands Based on the cis-1,3,5-Triaminocyclohexane Framework: Synthesis, Structure and Stability under Biological Conditions", Presented by R. P. Planalp before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract INOR 559.
189. M. W. Brechbiel, N. M. Tsoupas, N. Ye, R. P. Planalp, C. B. Bauer, and R. D. Rogers, "Facile Synthesis of cis,cis-1,3,5-Triaminocyclohexane and Its use in Synthesis of Novel Hexadentate Chelating Agents as Radiopharmaceuticals," Presented by M. W. Brechbiel before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract ORGN 236.
190. J. Zhang, S. T. Griffin, and R. D. Rogers, "Partitioning Behavior of Iodide in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by J. Zhang before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract I&EC 040.
191. S. T. Griffin, J. Zhang, and R. D. Rogers, "Partitioning Behavior of Iodide with Aqueous Biphasic Extraction Chromatographic (ABEC) Resins," Presented by S. T. Griffin before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract I&EC 041.
192. E. Wodziak, J. Zhang, and R. D. Rogers, "Modified Polyethylene Glycols (PEGs) as Potential Extractants for use in PEG-Based Aqueous Biphasic Systems," Presented by E. Wodziak before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract I&EC 042.
193. R. D. Rogers, S. T. Griffin, J. Zhang, E. P. Horwitz, M. J. Gula, and F. Chang, "Polyethylene Glycol-Based ABEC Resins for the Selective Removal of Technetium from Hanford Tank Wastes," Presented by R. D. Rogers before the 211th ACS National Meeting (1996), New Orleans, LA, Abstract I&EC 184.
194. R. D. Rogers, A. H. Bond, C. B. Bauer, S. T. Griffin, and J. Zhang "Polyethylene Glycol-Based Aqueous Biphasic Systems for Extraction and Recovery of Dyes and Metal/Dye Complexes," Presented by R. D. Rogers before the International Solvent Extraction Conference/ISEC'96 (1996), Melbourne, Australia. *Value Adding through Solvent Extraction Proceedings of ISEC'96*; D. C. Shallcross, R. Paiman, and L. M. Prvcic, Eds.; The University of Melbourne: Parkville, Victoria, Australia, 1996; Vol. 2; pp 1537-1542.
195. D. R. Whitcomb, W. C. Frank, R. D. Rogers, B. P. Tolochkoc, S. V. Chernovc, S. G. Nikitenkod, "Silver Coordination Chemistry in Photothermographic Imaging Systems," Presented by D. R. Whitcomb before the Imaging Science and Technology Conference (1996), Minneapolis, MN, Abstract.
196. J. Zhang and R. D. Rogers, "Structural Investigation of Polyethylene Glycol/Neodymium(III) Isothiocyanate Complexes," Presented by J. Zhang before the Rare Earth Research Conference (1996), Duluth, MN, Abstract PC-7.
197. R. D. Rogers, J. Zhang, and C. B. Bauer, "The Affects of Choice of Anion ($X = Cl^-, Br^-, SCN^-, NO_3^{!}$) and Polyethylene Glycol Chain Length on the Local and Supramolecular Structures of LnX_3/PEG Complexes," Presented by R. D. Rogers before the Rare Earth Research Conference (1996), Duluth, MN, Abstract IC-5. (Invited Symposium Presentation.)
198. R. D. Rogers, "ABEC™ Resins for Removal of TcO_4^- from Hanford Tank Wastes," Presented by R. D. Rogers before the 20th Actinide Separation Conference (1996), Itasca, IL, no abstract.
199. R. D. Rogers, A. H. Bond, and C. B. Bauer, "New Separations Technologies for TcO_4^-: Applications from Nuclear Medicine to Nuclear Waste," Presented by R. D. Rogers, before the 212th ACS National Meeting (1996), Orlando, FL, Abstract I&EC 008.
200. R. D. Rogers, "Chemical Crystallography in Crystal Engineering," Presented by R. D. Rogers at the NATO ASI *Crystal Engineering: The Design and Application of Functional Solids* (1996), Digby, Nova Scotia, Canada. (Invited Lecture.)
201. L. M. Rogers and R. D. Rogers, "How the New CCD Area Detector for Small Molecule Crystallography will Advance Crystal Engineering," Presented by L. M. Rogers at the NATO ASI *Crystal Engineering: The Design and Application of Functional Solids* (1996), Digby, Nova Scotia, Canada.

202. J. He, L. C. Francesconi, S. Saluja, and R. Rogers, "Synthesis and Characterization of the Indium(III) Complex of a Novel Aminothiol (N_3S_2) Ligand, " Presented by L. C. Francesconi, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract INOR 027.
203. J. Bartis, L. C. Francesconi, M. Dankova, R. Rogers, and V. G. Young, Jr., "Stoichiometric and Structural Studies of Lanthanide Complexes of $[a\text{-}2\text{-}P_2W_{17}O_{61}]^{10-}$ Complexes," Presented by J. Bartis, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract INOR 839.
204. R. D. Rogers, M. L. Dietz, E. P. Horwitz, and A. H. Bond, "Ligand Design for Ion Separations: Crystal Structures of Substituted Dicyclohexyl-18-crown-6 Isomers," Presented by R. D. Rogers, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract I&EC 004. (Invited Symposium Presentation.)
205. R. P. Swatloski, S. T. Griffin, L. M. Rogers, and R. D. Rogers, "4,4'-Dipyridyl as a Synthon for the Design and Synthesis of Porous Solids," Presented by R. P. Swatloski, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract I&EC 053.
206. S. T. Griffin and R. D. Rogers, "A Direct Comparison of Metal Ion Partitioning in Liquid/Liquid PEG-Based ABS and Retention on ABEC™ Resin. How Good is the Analogy?," Presented by S. T. Griffin, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract I&EC 054.
207. J. A. Nicol, H. D. Willauer, S. T. Griffin, and R. D. Rogers, "Partitioning of Dyes and Metal/Dye Complexes in Aqueous Biphasic Systems," Presented by H. D. Willauer, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract I&EC 055.
208. R. D. Rogers, S. T. Griffin, E. P. Horwitz, A. H. Bond, M. J. Gula, and F. Chang, "ABEC™ Resins: From Aqueous Biphasic Novelties to Selective Aqueous Biphasic Extraction Chromatographic Resins for Metal Ions," Presented by R. D. Rogers, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract I&EC 104. (Invited Symposium Presentation.)
209. A. H. Bond, M. J. Gula, F. Chang, R. D. Rogers, and E. P. Horwitz, "Eichrom's ABEC Resins: Alkaline Radioactive Waste Treatment, Radiopharmaceutical, and Potential Hydrometallurgical Applications," Presented by A. H. Bond, before the 213th ACS National Meeting (1997), San Francisco, CA, Abstract I&EC 105.
210. R. D. Rogers and L. M. Rogers, "The SMART System at The University of Alabama: Experiences, Reflections, and Data," Presented by R. D. Rogers, before the Siemens Area Detector Users Group Meeting 'SADUG97' (1997), Athens, GA, Abstract book. (Invited Presentation.)
211. R. D. Rogers, S. T. Griffin, H. D. Willauer, and J. A. Nicol, "Clean Solvent Extraction Using Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by R. D. Rogers before the 1997 Green Chemistry and Engineering Conference, 'Implementing Vision 2020 for the Environment' (1997), Washington, DC, Abstract book p. 23. (Invited Presentation.)
212. R. D. Rogers, S. T. Griffin, H. Willauer, J. Zhang, and J. G. Huddleston, "Utilization of Aqueous Polymers for 'Clean' Separations Technologies," Presented by R. D. Rogers before the Gordon Conference on Reactive Polymers, Ion Exchange, and Adsorption (1997), New England College, Henniker, NH.
213. J. G. Huddleston, H. Willauer, and R. D. Rogers, "Separations and Recovery of Food Coloring Dyes Using ABEC™ Resins," Presented by J. G. Huddleston before the 10th International Conference on Partitioning in Aqueous Two-Phase Systems (1997), Reading, United Kingdom, Abstract book.
214. S. T. Griffin and R. D. Rogers, "Partitioning of Mercury and Thallium in Aqueous Biphasic Systems and on ABEC™ Resins," Presented by S. T. Griffin before the 10th International Conference on Partitioning in Aqueous Two-Phase Systems (1997), Reading, United Kingdom, Abstract book.
215. H. D. Willauer, S. T. Griffin, and R. D. Rogers, "Partitioning of Small Organic Molecules in Aqueous Biphasic Systems," Presented by H. D. Willauer before the 10th International Conference on Partitioning in Aqueous Two-Phase Systems (1997), Reading, United Kingdom, Abstract book.
216. R. D. Rogers, "Potential Applications of Aqueous Biphasic Systems for the Reduction of Industrial Pollution," Presented by R. D. Rogers before the 10th International Conference on Partitioning in Aqueous Two-Phase Systems (1997), Reading, United Kingdom, Abstract book. (Invited Presentation.)
217. D. L. Clark, S. D. Conradson, D. W. Keogh, M. P. Neu, P. D. Palmer, R. D. Rogers, W. Runde, B. L. Scott, and C. D. Tait "Coordination Chemistry of Actinide Ions (U, Np, Pu) Under Highly Alkaline Conditions," Presented by D. L. Clark before the 1997 Plutonium Futures - The Science Conference (1997), Santa Fe, NM.
218. D. L. Clark, S. D. Conradson, D. W. Keogh, M. P. Neu, P. D. Palmer, R. D. Rogers, W. Runde, B. L. Scott, and C. D. Tait "Coordination Chemistry of Actinide Ions Under Highly Alkaline Conditions," Presented by D. L. Clark before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract GEOC 064.
219. E. J. Brandon, J. S. Miller, R. D. Rogers, and B. M. Burkhart "A New Bulk Magnet Based on the Semiquinone Anion: Structure and Ferrimagnetic Behavior of [MnTPP][Chloroanil]•PhMe," Presented by E. J. Brandon before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract INOR 276.
220. R. A. Bartsch, G. G. Talinova, H.-S. Hwang, V. S. Talanov, R. D. Rogers, and D. W. Purkiss "New Chromogenic Lariat Ethers for Selective Alkali Metal Cation Extraction," Presented by G. G. Talanova before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract I&EC 035.
221. J. Zhang, J. G. Huddleston, and R. D. Rogers "Simple Methods for the Prediction of Pertechnetate Distribution in Aqueous Biphasic Systems Based on Polyethylene Glycol," Presented by J. G. Huddleston before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract I&EC 009.
222. S. T. Griffin and R. D. Rogers "Partitioning of Mercury in Aqueous Biphasic Systems and Uptake on ABEC Resins," Presented by S. T. Griffin before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract I&EC 008.

223. J. G. Huddleston, H. D. Willauer, K. R. Boaz, and R. D. Rogers "Extraction of Metal Complexed Dyes Utilizing Aqueous Biphasic Systems and Aqueous Biphasic Extraction Chromatography, " Presented by J. G. Huddleston before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract I&EC 094.
224. R. D. Rogers, S. T. Griffin, J. Zhang, and J. G. Huddleston "New Technologies for Metal Ion Separations: Aqueous Biphasic Systems and Aqueous Biphasic Extraction Chromatographic Resins," Presented by R. D. Rogers before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract I&EC 023. (Invited Symposium Presentation.)
225. R. D. Rogers, S. T. Griffin, J. Zhang, E. P. Horwitz, A. H. Bond, F. Chang, and M. J. Gula "Separation of Pertechnetate and Iodide from Alkaline Supernate Waste using ABEC™ Resins," Presented by R. D. Rogers before the 214th ACS National Meeting (1997), Las Vegas, NV, Abstract I&EC 138.
226. G. Zucchi, P.-A. Pittet, J.-C. G. Bünzli, and R. D. Rogers, "Lanthanide Complexes with Functionalized Tetraaza Macrocyclic Ligands: Luminescence Studies and Structural Aspect," Presented by G. Zucchi before the International Conference on f Elements, ICFE3 (1997), Paris, France, Abstract.
227. F. Ihringer, J.-C. G. Bünzli, R. D. Rogers, P. Dumy, and C. Sager, "Solid State and Solution Structure of Dinuclear Lanthanide Complexes with Calix[8]arenes," Presented by F. Ihringer before the International Conference on f Elements, ICFE3 (1997), Paris, France, Abstract.
228. D. T. Campbell and R. D. Rogers, "Hydroxy-Crown Ether Complexes of Uranium and Thorium," Presented by D. T. Campbell before the Actinides '97 International Conference (1997), Baden-Baden, Germany, Abstract T3-P5.
229. S. T. Griffin and R. D. Rogers, "Separation of Actinides from Caustic Solution Using Aqueous Biphasic Systems," Presented by S. T. Griffin before the before the Actinides '97 International Conference (1997), Baden-Baden, Germany, Abstract TA-A4.
230. W. Runde, D. L. Clark, S. D. Conradson, D. W. Keogh, M. P. Neu, P. D. Palmer, B. L. Scott, S. D. Reilly, R. D. Rogers, and C. D. Tait " Coordination Chemistry of Actinyl Chloride Complexes in Aqueous Solutions," Presented by W. Runde before the Actinides '97 International Conference (1997), Baden-Baden, Germany, Abstract T3-P19.
231. D. L. Clark, S. D. Conradson, D. W. Keogh, M. P. Neu, P. D. Palmer, R. D. Rogers, W. Runde, B. L. Scott, and C. D. Tait "Coordination Chemistry of Actinide Ions (U, Np, Pu) Under Highly Alkaline Conditions," Presented by D. L. Clark before the Actinides '97 International Conference (1997), Baden-Baden, Germany, Abstract T3-A1.
232. R. D. Rogers, J. Zhang, and D. T. Campbell, "Structural Characterization of Crown Ether Complexes of $UO_2(NCS)_2$ and $Th(NCS)_4$," Presented by R. D. Rogers before the Actinides '97 International Conference (1997), Baden-Baden, Germany, Abstract T3-A6.
233. A. H. Bond, J. T. Harvey, M. J. Gula, F. Chang, J. M. Williamson, R. D. Rogers, and E. P. Horwitz, "Scale-up Synthesis and Performance Assessment of ABEC Resins for the Removal of Technetium and Iodine from Alkaline Radioactive Wastes," Presented by A. H. Bond before the Tenth Symposium on Separation Science and Technology for Energy Applications (1997), Gatlinburg, TN, Abstract book p. 18.
234. R. P. Swatloski, S. T. Griffin, and R. D. Rogers, "Perrhenate/Tungstate Separations in Aqueous Biphasic Systems," Presented by R. P. Swatloski before the Tenth Symposium on Separation Science and Technology for Energy Applications (1997), Gatlinburg, TN, Abstract book p. 50.
235. H. D. Willauer, S. T. Griffin, J. G. Huddleston, and R. D. Rogers, "Partitioning of Aromatic Molecules in Aqueous Biphasic Systems," Presented by H. D. Willauer before the Tenth Symposium on Separation Science and Technology for Energy Applications (1997), Gatlinburg, TN, Abstract book p. 50.
236. S. T. Griffin, A. H. Bond, and R. D. Rogers, "Separation of Heavy Main Group Metal Ions from Sulfate Media Using Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by S. T. Griffin before the Tenth Symposium on Separation Science and Technology for Energy Applications (1997), Gatlinburg, TN, Abstract book p. 80.
237. J. G. Huddleston and R. D. Rogers, "Partitioning Behavior of Porphyrins in Aqueous Biphasic Systems," Presented by J. G. Huddleston before the Tenth Symposium on Separation Science and Technology for Energy Applications (1997), Gatlinburg, TN, Abstract book p. 49.
238. R. D. Rogers and S. T. Griffin, "Separation of Actinides from Caustic Solution Using Aqueous Biphasic Systems," Presented by R. D. Rogers before the Tenth Symposium on Separation Science and Technology for Energy Applications (1997), Gatlinburg, TN, Abstract book p. 20. (Invited Symposium Presentation.)
239. L. M. Rogers, C. V. K. Sharma, and R. D. Rogers "One-Dimensional Polymers and Two-Dimensional Grids Formed by Lanthanide/Ethanediphosphonic Acid Complexation," Presented by L. M. Rogers before the Fifth Chemical Congress of North America (1997), Cancún, Mexico, Abstract 1090.
240. R. P. Swatloski, C. V. K. Sharma, and R. D. Rogers "The Design of Two-Dimensional Networks in Cadmium Halide Complexes," Presented by R. P. Swatloski before the Fifth Chemical Congress of North America (1997), Cancún, Mexico, Abstract 1091.
241. C. V. K. Sharma and R. D. Rogers "Crystal Engineering of Pyrimidine Metal Complexes," Presented by C. V. K. Sharma before the Fifth Chemical Congress of North America (1997), Cancún, Mexico, Abstract 1506.
242. R. D. Rogers, C. V. K. Sharma, R. P. Swatloski, and L. M. Rogers "Coordination Chemistry to Crystal Engineering," Presented by R. D. Rogers before the Fifth Chemical Congress of North America (1997), Cancún, Mexico, Abstract 163. (Invited Symposium Presentation.)
243. G. Broker, K. Sharma, and R. D. Rogers "Crystal Engineering: Synthesis and Characterization of Porphrine Metal Complexes," Presented by G. Broker before the 215th ACS National Meeting (1998), Dallas, TX, Abstract CHED 468.
244. L. M. Rogers and R. D. Rogers "Putting Lanthanide Ions in the Crystal Engineer's Tool Box," Presented by L. M. Rogers before the 215th ACS National Meeting (1998), Dallas, TX, Abstract INOR 302.

245. R. P. Swatloski, C. V. K. Sharma, and R. D. Rogers "Toward the Design of Porous Networks: Crystal Structures of Porphyrin-Metal Halide Complexes," Presented by R. P. Swatloski before the 215th ACS National Meeting (1998), Dallas, TX, Abstract INOR 303.
246. C. V. K. Sharma and R. D. Rogers "Crystal Engineering: Coordination and Hydrogen Bonding in Cocrystals of Lanthanide Complexes," Presented by C. V. K. Sharma before the 215th ACS National Meeting (1998), Dallas, TX, Abstract INOR 304.
247. A. E. Visser, S. T. Griffin, and R. D. Rogers "Sulfonic Acid Dyes as Radionuclide Complexants in Aqueous Biphasic Systems," Presented by A. E. Visser before the 215th ACS National Meeting (1998), Dallas, TX, Abstract I&EC 037.
248. H. D. Willauer, J. G. Huddleston, S. T. Griffin, A. D. Carruth, and R. D. Rogers "The Partitioning of Small Organic Molecules in Aqueous Biphasic Systems and on ABEC Resins," Presented by H. D. Willauer before the 215th ACS National Meeting (1998), Dallas, TX, Abstract I&EC 036.
249. J. G. Huddleston, H. D. Willauer, J. F. Herrington, A. D. Carruth, S. T. Griffin, and R. D. Rogers "Extraction of Organic Molecules Utilizing Aqueous Biphasic Systems and the Physicochemical Properties of the Phases," Presented by J. G. Huddleston before the 215th ACS National Meeting (1998), Dallas, TX, Abstract I&EC 035.
250. R. D. Rogers, J. G. Huddleston, S. T. Griffin. H. D. Willauer, and A. E. Visser "Utilizing Surfactants to Control Partitioning of Solutes in Polyethylene Glycol-Based Aqueous Biphasic Systems," Presented by R. D. Rogers before the 215th ACS National Meeting (1998), Dallas, TX, Abstract I&EC 016. (Invited Symposium Presentation.)
251. R. D. Rogers and D. E. Nikles, "The University of Alabama Center for Green Manufacturing," Presented by R. D. Rogers before the 2nd Annual Green Chemistry & Engineering Conference: Global Perspectives, (1998), Washington, DC, Abstract book page 11.
252. R. D. Rogers, J. G. Huddleston, H. D. Willauer, S. T. Griffin, and A. E. Visser, "Green Separation Science & Technology: Can Environmentally Benign Polymers Replace VOCs in Industrial Scale Liquid/Liquid Separations?," Presented by R. D. Rogers before the 2nd Annual Green Chemistry & Engineering Conference: Global Perspectives, (1998), Washington, DC, Abstract book page 20.
253. R. D. Rogers, "Crystal Engineering of Ordered Porphyrin Arrays," Presented by R. D. Rogers before the Fourth Department of Energy/Basic Energy Sciences Conference on Homogeneous Catalysis and Organometallic Chemistry (1998), Baltimore, MD, Abstract book p. 95.
254. R. D. Rogers, C. V. K. Sharma, G. A. Broker, R. P. Swatloski, and L. M. Rogers, "Crystal Engineering of Porous Solids using Coordination Polymers," Presented by R. D. Rogers before the American Crystallographic Association Annual Meeting (1998), Arlington, VA, Abstract TR.00.05. (Invited Transactions Symposium Presentation.)
255. L. M. Rogers, C. V. K. Sharma, and R. D. Rogers, "Lanthanide Ions as Part of the Crystal Engineer's Tool Box," Presented by L. M. Rogers before the American Crystallographic Association Annual Meeting (1998), Arlington, VA, Abstract P348.
256. G. G. Talanova, R. A. Bartsch, N. S. A. Elkarim, R. E. Haynes, Jr., V. S. Talanov, and R. D. Rogers, "Effect of the picrate anion on the selectivity of aromatic-containing crown ethers in alkali metal cation binding," Presented by G. G. Talanova before the 216th ACS National Meeting (1998), Boston, MA, Abstract INOR 008.
257. G. Park, R. D. Rogers, M. W. Brechbiel, and R. P. Planalp, "Structural and Steric Effect Study of Metal Complexes of Novel Hexadentate Ligands Derived from *cis*-1,3,5-Triaminocyclohexane Framework," Presented by G. Park before the 216th ACS National Meeting (1998), Boston, MA, Abstract INOR 645.
258. R. P. Swatloski, C. V. K. Sharma, G. A. Broker, L. M. Rogers, and R. D. Rogers, "The Crystal Engineer's Tool Box: Coordination Polymers for Design of Porous Solids," Presented by R. P. Swatloski before the 216th ACS National Meeting (1998), Boston, MA, Abstract INOR 500.
259. S. T. Griffin and R. D. Rogers, "Aqueous Biphasic Extraction Chromatographic Resins: New Technologies for Low Specific Activity-Molybdenum-99/Technetium-99m Separations," Presented by S. T. Griffin before the 216th ACS National Meeting (1998), Boston, MA, Abstract I&EC 006.
260. R. D. Rogers, R. P. Swatloski, and S. T. Griffin, "Aqueous Biphasic Extraction Chromatographic Resins for Separation of Rhenium-188 from Tungsten-188," Presented by R. D. Rogers before the 216th ACS National Meeting (1998), Boston, MA, Abstract I&EC 012. (Invited Symposium Presentation.)
261. R. D. Rogers, J. G. Huddleston, and S. T. Griffin, "Aqueous Biphasic Extraction Chromatographic Resins as Tunable Affinity Adsorbents: Definitions and Applications in Pollution Prevention," Presented by R. D. Rogers before the 1998 Annual Meeting of the American Institute of Chemical Engineers (1998), Miami Beach, FL, Abstract. (Invited Symposium Presentation.)
262. R. D. Rogers, C. V. K. Sharma, and G. A. Broker, "Crystal Engineering of Ordered Porphyrin Arrays," Presented by R. D. Rogers before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract INOR 046. (Invited Symposium Presentation.)
263. D. W. Keogh, D. L. Clark, S. D. Conradson, R. J. Donohoe, David E. Morris, M. P. Neu, P. D. Palmer, R. D. Rogers, W. Runde, B. L. Scott, and C. D. Tait, "Structure and Reactivity of Penta- and Hexa-Valent Actinide Ions (U, Np, Pu) Under Highly Alkaline Conditions," Presented by D. W. Keogh before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract NUCL 167.
264. B. M. Rapko, B. K. McNamara, G. J. Lumetta, B. P. Hay, R. D. Rogers, and G. Broker, "Coordination Chemistry of Tetraalkyldiamides with f-Block Metal Salts," Presented by B. M. Rapko before the 217th ACS National Meeting (1999), Anaheim, CA, Abstracts INOR 368.
265. D. L. Clark, D. W. Keogh, S. D. Conradson, R. J. Donohoe, D. E. Morris, M. P. Neu, P. D Palmer, R. D. Rogers, W. Runde, B. L. Scott, and C. D. Tait, "Coordination Chemistry of Hexa- and Hepta-Valent Actinide Ions (U, Np, Pu) Under Alkaline Conditions," Presented by D. L. Clark before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract INOR 066.

266. D. L. Clark, D. W. Keogh, S. D. Conradson, L. A. Morales, M. P. Neu, P. D. Palmer, R. D. Rogers, W. Runde, B. L. Scott, and C. D. Tait, "Structural Trends in Actinyl(V, VI) Ions of U, Np, and Pu," Presented by D. L. Clark before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract NUCL 042.
267. J. M. Duffey, M. J. Gula, J. T. Harvey, E. P. Horwitz, A. H. Bond, S. T. Griffin, R. D. Rogers, and J. L. Collins, "A Flowsheet for the Separation, Concentration, and Immobilization of Pertechnetate Ion from Alkaline Wastes Using ABEC Resins," Presented by J. M. Duffey before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 044.
268. G. A. Broker, C. V. K. Sharma, B. T. Pyevich, J. A. Swenson, G. J. Szulczewski, and R. D. Rogers, "Hydrogen-Bonded Supramolecular Assembly of Tetrapyridylporphyrins on a Gold Surface," Presented by G. A. Broker before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract INOR 542.
269. G. A. Broker, C. V. K. Sharma, and R. D. Rogers, "Inclusion Properties of Crystal Engineered Tetrapyridylporphyrin Coordination Complexes," Presented by G. A. Broker before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract INOR 543.
270. A. E. Visser, R. P. Swatloski, J. G. Huddleston, and R. D. Rogers, "Room Temperature Ionic Liquids as Alternatives to Organic Solvents in Liquid/Liquid Extraction of Metal Ions," Presented by A. E. Visser before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 040.
271. A. E. Visser, D. H. Hartman, J. G. Huddleston, and R. D. Rogers, "Room Temperature Ionic Liquids for Liquid/Liquid Extraction of Dyes from Aqueous Media" Presented by A. E. Visser before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 041.
272. R. P. Swatloski, A. E. Visser, J. G. Huddleston, and R. D. Rogers, "Room Temperature Ionic Liquids as Alternatives to Organic Solvents in Liquid/Liquid Extraction of Dilute Organic Contaminants," Presented by R. P. Swatloski before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 042.
273. H. W. Willauer, J. G. Huddleston, and R. D. Rogers, "Modeling Partitioning Behavior in Aqueous Biphasic Systems," Presented by H. W. Willauer before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 043.
274. R. D. Rogers, A. E. Visser, R. P. Swatloski, D. H. Hartman, and S. T. Griffin, "Environmentally Benign Liquid/Liquid Extraction Media for Metal Ion Separations: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 109. (Invited Symposium Presentation.)
275. R. D. Rogers, S. T. Griffin, and A. E. Visser, "The Effects of Plutonium Speciation on Partitioning in Polyethylene Glycol-Based Aqueous Biphasic Systems and ABEC Resins," Presented by R. D. Rogers before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract NUCL 049. (Invited Symposium Presentation.)
276. A. E. Visser, D. H. Hartman, S. T. Griffin, and R. D. Rogers, "Calixarenes as Ligands in Environmentally-Benign Liquid/Liquid Extraction Media," Presented by R. D. Rogers before the 217th ACS National Meeting (1999), Anaheim, CA, Abstract I&EC 226. (Invited Symposium Presentation.)
277. Rogers, R. D. "Polymer-Based, Environmentally-Benign Liquid/Liquid Extraction Media for Separations," presented by R. D. Rogers before the Third DOE/BES Separations Workshop (1999), Savannah, GA, Abstract.
278. R. D. Rogers, A. E. Visser, and S. T. Griffin, "Using Environmentally Benign Liquid/Liquid Extraction Media for Metal Ion Separations: Aqueous Biphasic Systems and Room temperature Ionic Liquids," Presented by R. D. Rogers before the United Engineering Foundation, Inc. Conference *Metal Separation Technologies Beyond 2000: Integrating Novel Chemistry with Processing* (1999), Abstract.
279. A. E. Visser, R. P. Swatloski, D. H. Hartman, and R. D. Rogers, "Room Temperature Ionic Liquids as Replacements for Volatile Organic Solvents in Liquid/Liquid Separations," Presented by A. E. Visser before the United Engineering Foundation, Inc. Conference *Metal Separation Technologies Beyond 2000: Integrating Novel Chemistry with Processing* (1999), Abstract.
280. J. G. Huddleston, H. D. Willauer, S. K. Spear, K. D. Smith, and R. D. Rogers, "Polymer-Based Aqueous Biphasic Extraction Technology in the Paper Pulping Process," Presented by J. G. Huddleston before the 3rd Annual Green Chemistry and Engineering Conference: Moving Toward Industrial Ecology (1999), Washington, DC, Abstract book page 44.
281. R. D. Rogers, A. E. Visser, R. P. Swatloski, H. D. Willauer, and J. G. Huddleston, "Room Temperature Ionic Liquids As Alternatives To Organic Solvents In Liquid/Liquid Extraction," Presented by R. D. Rogers before the 3rd Annual Green Chemistry and Engineering Conference: Moving Toward Industrial Ecology (1999), Washington, DC, Abstract book page 5. (Invited Symposium Presentation.)
282. J. G. Huddleston, J. W. Baldwin, R. M. Metzger, and R. D. Rogers, "Solvatochromic Studies in Polyethylene Glycol/Salt Aqueous Biphasic Systems," Presented by J. G. Huddleston before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 1.
283. H. D. Willauer, J. G. Huddleston, and R. D. Rogers, "Modeling the Partitioning Behavior of Small Organic Molecules in Aqueous Biphasic Systems," Presented by H. D. Willauer before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 6.
284. A. D. Carruth, H. D. Willauer, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "The Use of Quantum Mechanical Models (AMSOL) to Predict the Distribution of Organic Molecules in Aqueous Biphasic Systems," Presented by A. D. Carruth before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 18.
285. K. D. Smith, S. K. Spear, and R. D. Rogers, "Aqueous Biphasic Systems: Influences of Polymer Molecular Weight on System Behavior," Presented by K. D. Smith before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 35.

286. H. D. Willauer, A. P. Kassangottuwar, J. G. Huddleston, J. M. Wiest, G. C. April, and R. D. Rogers, "Aqueous Biphasic Systems for the Separation of Lignins from Cellulose in the Paper Pulping Process," Presented by H. D. Willauer before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 55.
287. G. A. Broker, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "Coordination vs. Hydration of Metal Ions with PEG Polymers as a Function of Polymer Length," Presented by G. A. Broker before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 62.
288. D. Boochee, L. Dunklin, R. Lee, J. G. Huddleston, H. D. Willauer, and R. D. Rogers, "Summer Undergraduate Research Program (SURP) at The University of Alabama: Synthesis and Characterization of Room Temperature Ionic Liquids and Phase Diagrams for Polyethylene Glycol/Salt Mixtures," Presented by L. Dunklin and R. Lee before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 64.
289. Rogers, R. D.; H. D. Willauer, S. T. Griffin, J. G. Huddleston, "Aqueous Polymeric Solutions as Environmentally-Benign Solvent Extraction Media," Presented by R. D. Rogers before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 86.
290. M. J. Gula, M. Langer, R. Rogers, and A. Bond, "Separation, Concentration and Immobilization of Technetium from Alkaline Supernate Waste with Eichrom's ABEC® resin," Presented by M. Langer before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 87.
291. S. T. Griffin, S. K. Spear, and R. D. Rogers, "Partitioning of Iodide in Aqueous Biphasic Systems and Uptake on ABEC® Resins," Presented by S. T. Griffin before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 88.
292. S. K. Spear, S. T. Griffin, and R. D. Rogers, "A New Rhenium-188 Generator Technology Using Polyethylene Glycol-Based Aqueous Biphasic Extraction Chromatographic Resins," Presented by S. K. Spear before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 89.
293. A. E. Visser, S. T. Griffin, D. H. Hartman, and R. D. Rogers, "Napthol and Resorcinol-Based Azo Dyes as Metal Ion Complexants in Aqueous Biphasic Systems," Presented by A. E. Visser before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 90.
294. M. Li, Z.-Q. Zhu, J. G. Huddleston, and R. D. Rogers, "Partitioning of Erythromycin by Temperature-Induced Aqueous Two-Phase System," Presented by M. Li before the 11th International Conference on Partitioning in Aqueous Two-Phase Systems (1999), Gulf Shores, AL, Abstract 94.
295. L. M. Rogers, G. A. Broker, and R. D. Rogers, "Lanthanide Ions as Part of the Crystal Engineer's Tool Box," Presented by L. M. Rogers before the XVIIth International Union of Crystallography Congress & General Assembly (1999), Glasgow, Scotland, Abstract P11.OD.012.
296. R. D. Rogers, G. A. Broker, C. V. K. Sharma, B. T. Pyevich, J. A. Swenson, and G. J. Szulczewski, "Application of Crystal-Engineered Tetrapyridylporphyrin Complexes to Hydrogen-Bonded Supramolecular Assembly on a Gold Surface," Presented by R. D. Rogers before the XVIIth International Union of Crystallography Congress & General Assembly (1999), Glasgow, Scotland, Abstract P11.OD.005.
297. M. P. Neu, D. L. Clark, S. D. Conradson, R. J. Donohoe, J. C. Gordon, D. W. Keogh, D. E. Morris, R. D. Rogers, B. L. Scott, and C. D. Tait, "Structure and Stability of Actinides (U, Np, Pu) under Strongly Alkaline Radioactive Waste Tank Conditions," Presented by M. P. Neu before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract NUCL 088.
298. R. P. Planalp, G. Park, R. D. Rogers, and M. W. Brechbiel, "Synthesis and Characterization of Dicationic Metal Complexes of tachpyr and tach-6-mepyr Ligands Derived from the *cis*-1,3,5-Triaminocyclohexane Framework," Presented by G. Park before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract INOR 516.
299. D. R. Whitcomb and R. D. Rogers, "Taking Advantage of the Ag-O Supramolecular Synthon: Reprise of an Old Coordination Linkage," Presented by D. R. Whitcomb before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract INOR 508.
300. R. D. Rogers, G. A. Broker, C. V. K. Sharma, "Polymorphous One-Dimensional Tetrapyridylporphyrin-Coordination Polymers Structurally Mimic Aryl-Stacking Interactions," Presented by G. A. Broker before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract INOR 463.
301. S. J. Cooke, N. Jackson, and R. Rogers, "Why You Should be in the Division of Industrial & Engineering Chemistry," Presented by S. J. Cooke before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 010.
302. R. D. Rogers, A. D. Carruth H. D. Willauer, S. K. Spear, and J. G. Huddleston, "Quantum Mechanical Models (AMSOL) for the Prediction of the Distribution of Organic Molecules in Aqueous Biphasic Systems," Presented by K. D. Smith before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 016.
303. R. D. Rogers, K. D. Smith, and S. K. Spear, "Aqueous Biphasic Systems: Effect of Temperature on Partitioning," Presented by K. D. Smith before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 017.
304. R. D. Rogers, H. D. Willauer, and J. G. Huddleston, Effects of Temperature on the Partitioning of Solutes in PEG/Salt Aqueous Biphasic Systems," Presented by H. D. Willauer before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 018.
305. R. D. Rogers, J. G. Huddleston, H. D. Willauer, "Aqueous Polymers for the Extraction of Lignin During Alkaline Pulping," Presented by J. G. Huddleston before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 019.
306. R. D. Rogers, S. T. Griffin, and S. K. Spear, "Partitioning of Iodide in Aqueous Biphasic Systems and Uptake on ABEC Resins," Presented by S. T. Griffin before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 020.

307. R. D. Rogers, S. K. Spear, K. D. Smith, and J. G. Huddleston, "Aqueous Biphasic Systems Using Polyethylene Glycol/Ammonium Carbamate," Presented by S. K. Spear before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 021.
308. R. D. Rogers, R. P. Swatloski, and A. E. Visser, "Liquid-Liquid Extraction of Organics in Room-Temperature Ionic Liquids: Cationic Effects," Presented by R. P. Swatloski before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 022.
309. R. D. Rogers, A. E. Visser, R. P. Swatloski, and S. T. Griffin, "Anionic Extractants for Partitioning Metal Ions to Room-Temperature Ionic Liquids," Presented by A. E. Visser before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 023.
310. R. D. Rogers, G. A. Broker, and S. K. Spear, "Uptake of Metal Ions by Crystal-Engineered Tetrapyridylporphyrin Coordination Polymers," Presented by G. A. Broker before the 218th ACS National Meeting (1999), New Orleans, LA, Abstract I&EC 27.
311. R. D. Rogers, "Green/Sustainable Separation Science and Technology," Presented by R. D. Rogers at *Industry Central*, 218th ACS National Meeting (1999), New Orleans, LA (Invited Presentation, No Abstract).
312. R. D. Rogers, A. E. Visser, R. P. Swatloski, and J. G. Huddleston, "Room Temperature Ionic Liquids as Alternatives to Organic Solvents," Presented by R. D. Rogers to the Tenth Annual International Workshop on Solvent Substitution and the Elimination of Toxic Substances and Emissions (1999), Scottsdale, AZ. (Invited Presentation.)
313. K. D. Smith, S. K. Spear, and R. D. Rogers, "Aqueous Biphasic Systems: Polyethylene Glycol Compared with Polyethylene/Polypropylene Glycol Random Copolymer in Biphasic Systems," Presented by K. D. Smith before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 52.
314. S. K. Spear, K. D. Smith, J. G. Huddleston, and R. D. Rogers, "Polyethylene Glycol/Ammonium Carbamate Aqueous Biphasic Systems," Presented by S. K. Spear before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 53.
315. H. D. Willauer, J. G. Huddleston, S. Spear, and R. D. Rogers, "Modeling Partitioning Behavior of Organic Solutes in Aqueous Biphasic Systems," Presented by H. D. Willauer before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 58.
316. J. G. Huddleston, H. D. Willauer, S. K. Spear, K. D. Smith, and R. D. Rogers, "Polymer-Based Aqueous Biphasic Extraction Technology for Reaction Engineering of the Alkaline Paper Pulping Process," Presented by J. G. Huddleston before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 73.
317. A. E. Visser, R. P. Swatloski, H. D. Willauer, D. H. Hartman, J. G. Huddleston, and R. D. Rogers, "Room-Temperature Ionic Liquids as Solvents for Liquid/Liquid Extraction of Organic Molecules and Metal Ions," Presented by A. E. Visser before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 79.
318. S. T. Griffin, S. K. Spear, and R. D. Rogers, "Mercury Uptake from Solutions of Low Salt Concentration Using ABEC™ Resins," Presented by S. T. Griffin before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 82.
319. R. D. Rogers, A. E. Visser, R. P. Swatloski, H. D. Willauer, D. H. Hartman, and J. G. Huddleston, "Room-Temperature Ionic Liquids as Alternatives to Organic Solvents in Liquid/Liquid Extraction," Presented by R. D. Rogers before the Eleventh Symposium on Separation Science and Technology for Energy Applications (1999), Gatlinburg, TN, Abstract book p. 18.
320. R. D. Rogers, "Green Manufacturing: Changing the Way Students Think about Manufacturing Processes and the Environment," presented by R. D. Rogers before the 15th Annual NSF EPSCoR Conference (1999), Orange Beach, AL, No Abstract, Proceedings, page 6. (Invited Presentation.)
321. R. D. Rogers, "Ionic Liquids as Alternatives to Organic Solvents," presented by R. D. Rogers before the United Engineering Foundation, Inc. Conference *Clean Products and Processes II* (1999), Abstract. (Invited Presentation).
322. A. H. Bond, R. D. Rogers, M. J. Gula, E. P. Horwitz, J. T. Harvey, and J. L. Collins, "Flowsheet Development for the Separation and Immobilization of Pertechnetate from Alkaline Radioactive Wastes," presented by A. H. Bond before the Materials Research Society Fall Meeting (1999), Boston, MA, Abstract.
323. J. G. Huddleston, H. D. Willauer, S. K. Griffin, S. S. Spear, and R. D. Rogers, "Wholly Aqueous Solvent Extraction Systems: properties and Applications, Presented by J. G. Huddleston before the 2000 Spring AIChE National Meeting (2000), Atlanta, GA, Paper 14b, *Membrane and Extraction Science and Technologies for Environmental Applications Topical Conference Proceedings*, D. Bhattacharyya and J. S. Kanel, Eds.; AIChE, New York, 2000; pp 192-196.
324. R. D. Rogers, A. E. Visser, R. P. Swatloski, H. D. Willauer, and J. G. Huddleston, Room Temperature Ionic Liquids as Alternatives to Organic Solvents in Liquid/Liquid Extraction, Presented by R. D. Rogers before the 2000 Spring AIChE National Meeting (2000), Atlanta, GA, Paper 14e, *Membrane and Extraction Science and Technologies for Environmental Applications Topical Conference Proceedings*, D. Bhattacharyya and J. S. Kanel, Eds.; AIChE, New York, 2000; pp 200-204.
325. R. D. Rogers, A. E. Visser, R. P. Swatloski, and D. H. Hartman "Room-Temperature Ionic Liquids as Alternatives to Volatile Organic Solvents in Liquid/Liquid Extraction," Presented by A. E. Visser before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 003.
326. A. Waterfeld, J. S. Thrasher, J. F. Sullivan, R. D. Rogers, and J. L. Howell "Synthesis, Structure, and Chemistry of the Bistrifluoromethylated Version of Meldrum's Acid," Presented by A. Waterfeld before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract FLUO 007.

327. R. D. Rogers, A. E. Visser, J. G. Huddleston, R. P. Swatloski, G. A. Broker, and H. D. Willauer, "Green Chemistry and Engineering in Separations Science," Presented by R. D. Rogers before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 025. (Invited Symposium Presentation.)
328. H. Luo, R. D. Rogers, and M. W. Brechbiel, "Synthesis of Difunctionalized Macrocyclic Chelates Based on Cyclam and Cyclen," Presented by H. Luo before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract INOR 175.
329. E. Blair, J. A. Nikles, D. E. Nikles, L. M. Rogers, R. D. Rogers, D. Stabler, and S. C. Street, "Molecular Structure of the Amine-Quinone Model Compound, 2,4-Bis(Dimethylamino)-1,4-Benzoquinone," Presented by E. Blair before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract POLY 192.
330. B. M. Rapko, G. J. Lumetta, B K. McNamara, B. P. Hay, R. D. Rogers, and G. Broker, "Coordination Chemistry of Tetraalkyldiamides with f-Block Metal Salts," Presented by B. M. Rapko before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 050.
331. R. D. Rogers, A. E. Visser, W. M. Reichert, and R. P. Swatloski, "Investigation of Room-Temperature Ionic Liquids via X-Ray Crystallographic Characterization of Low-Melting Analogs," Presented by R. P. Swatloski before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 084.
332. W. M. Reichert, A. E. Visser, R. P. Swatloski, and R. D. Rogers, "Synthesis and Characterization of Novel Room-Temperature Ionic Liquids," Presented by W. M. Reichert before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 085.
333. R. D. Rogers, A. E. Visser, R. P. Swatloski, and S. T. Griffin, "Crown Ethers as Extractants for Group 1 and 2 Metal Ions in Room-Temperature Ionic Liquids," Presented by A. E. Visser before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 086.
334. R. D. Rogers, "Development of ABEC resins: A Study of Academic/National Laboratory/Industry Cooperation," Presented by R. D. Rogers before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 164. (Invited Symposium Presentation.)
335. R. D. Rogers, and G. A. Broker, "Toward Understanding Weak Intermolecular Forces: Crystal Engineering of Porous Solids," Presented by R. D. Rogers before the 219th ACS National Meeting (2000), San Francisco, CA, Abstract I&EC 155. (Invited Symposium Presentation.)
336. R. D. Rogers, "Vision 2020: How Green Chemistry Can Shape the Future of the Sugar Processing Industry," Presented by R. D. Rogers Before the *SPRI 2000 Conference on Sugar Processing Research (2000), Porto, Portugal*, Abstract Book. (Invited Plenary Presentation).
337. R. D. Rogers, "Ionic Liquids as Solvent Replacements in Industrial-Scale Separations – Opportunities and Challenges," Presented by R. D. Rogers before the NATO Advanced Research Workshop*,* Green Industrial Applications of Ionic Liquids (2000), Crete, Greece, Abstract Book (Invited Presentation).
338. R. D. Rogers, A. Visser, W. M. Reichert, and R. P. Swatloski, "Investigation of Room-Temperature Ionic Liquids via X-ray Crystallographic Characterization of Low Melting Analogs," Presented by R. P. Swatloski before the NATO Advanced Research Workshop*,* Green Industrial Applications of Ionic Liquids (2000), Crete, Greece, Abstract Book.
339. A. E. Visser, R. P. Swatloski, S. T. Griffin, and R. D. Rogers, "Crown Ethers as Extractants for Group I and II Metal Ions in Room-Temperature Ionic Liquids," Presented by A. E. Visser before the NATO Advanced Research Workshop*,* Green Industrial Applications of Ionic Liquids (2000), Crete, Greece, Abstract Book.
340. J. G. Huddleston, H. D. Willauer, M. Li, and R. D. Rogers, "The Solution Properties of Aqueous Biphasic Systems," Presented by J. G. Huddleston before the Fourteenth Symposium on Thermophysical Properties (2000), Boulder, CO, Abstract book page 97.
341. R. D. Rogers, J. G. Huddleston, A. E. Visser, and R. P. Swatloski, "Linear Free Energy Relationships to Describe Solute Partitioning in Room Temperature Ionic Liquids," Presented by R. D. Rogers before the Fourteenth Symposium on Thermophysical Properties (2000), Boulder, CO, Abstract book page 97.
342. A. E. Visser, R. P. Swatloski, W. M. Reichert, R. D. Rogers, "Chemical and Physical Characteristics of Room-Temperature Ionic Liquids and the Associated Implications for Their Use as Solvent Alternatives," Presented by R. D. Rogers before the 4th Annual Green Chemistry and Engineering Conference: Sustainable Technologies: From Research to Industrial Implementation (2000), Washington, DC, Abstract book page 11.
343. H. D. Willauer, J. G. Huddleston, M. Li, and R. D. Rogers, "Aqueous Biphasic Systems as Green Alternatives to Chemical Pulping in the Alkaline Paper Pulping Process," Presented by H. D. Willauer before the 4th Annual Green Chemistry and Engineering Conference: Sustainable Technologies: From Research to Industrial Implementation (2000), Washington, DC, Abstract book page 38.
344. R. D. Rogers, "Ionic Liquids as Alternative Reaction Media: Challenges and Opportunities," Presented by R. D. Rogers before the Gordon Research Conference on Green Chemistry (2000), New London, CT (Invited Presentation).
345. R. D. Rogers, "Ionic Liquids as Alternatives to Organic Solvents for Liquid Extraction," Presented by R. D. Rogers before the Gordon Research Conference on Separation and Purification (2000), New London, NH (Invited Presentation).
346. A. E. Visser and R. D. Rogers, "Room Temperature Ionic Liquids as Solvents for Liquid/Liquid Extraction of Organic Molecules and Metal Ions," Presented by A. E. Visser before the Gordon Research Conference on Separation and Purification (2000), New London, NH.
347. H. W. Willauer and R. D. Rogers, "Development of Predictive Tools for Partitioning in Aqueous Biphasic Systems," Presented by H. W. Willauer before the Gordon Research Conference on Separation and Purification (2000), New London, NH.

348. H. Luo, N. Eberly, R. D. Rogers, and M. W. Brechbiel, "*cis,cis*-1,3,5-Triaminocyclohexane-*N,N*',*N*"-Triacetic Acid (H_3tachta) and Its Metal Complexes," Presented by H. Luo before the 220th ACS National Meeting (2000), Washington, DC, Abstract INOR 387.
349. A. E. Visser, R. P. Swatloski, W. M. Reichert, and R. D. Rogers, "Chemical and Physical Characteristics of Room-Temperature Ionic Liquids and the Associated Implications for Their Use as Solvent Alternatives," Presented by A. E. Visser before the 220th ACS National Meeting (2000), Washington, DC, Abstract I&EC 014.
350. R. P. Swatloski, A. E. Visser, W. M. Reichert, and R. D. Rogers, "Crystallographic Characterization of Solid-State Analogs of Room-Temperature Ionic Liquid Solvents," Presented by R. P. Swatloski before the 220th ACS National Meeting (2000), Washington, DC, Abstract I&EC 041.
351. W. M. Reichert, A. E. Visser, R. P. Swatloski, and R. D. Rogers, "Ionic Composition as a Variable to Fine Tune the Physical Properties of Room-Temperature Ionic Liquids," Presented by W. M. Reichert before the 220th ACS National Meeting (2000), Washington, DC, Abstract I&EC 042.
352. R. D. Rogers, A. E. Visser, R. P. Swatloski, and W. M. Reichert, "Liquid/Liquid Extraction of Actinides in Room-Temperature Ionic Liquids," Presented by A. E. Visser before the 220th ACS National Meeting (2000), Washington, DC, Abstract I&EC 043.
353. H. D. Willauer, J. G. Huddleston, M. Li, Z. Guo, G. C. April, R. D. Rogers, "Polymer-Based Aqueous Biphasic Systems for Reaction Engineering of the Kraft Pulping Process," Presented by H. D. Willauer before the 220th ACS National Meeting (2000), Washington, DC, Abstract I&EC 180.
354. R. D. Rogers, A. E. Visser, R. P. Swatloski, and W. M. Reichert, "Room-Temperature Ionic Liquids as Designer Solvents: Manipulation of Solvent Properties through Simple Variation in Ionic Composition," Presented by R. D. Rogers before the 220th ACS National Meeting (2000), Washington, DC, Abstract I&EC 018 (Invited Symposium Presentation).
355. R. D. Rogers, "University of Alabama's Center for Green Manufacturing," Presented by R.D. Rogers before the 22nd Annual Meeting of the Council for Chemical Research (2000), New Orleans, LA.
356. R. D. Rogers, "Alabama Institute of Manufacturing Excellence," Presented by R.D. Rogers before the 22nd Annual Meeting of the Council for Chemical Research (2000), New Orleans, LA
357. B. Wu, R. G. Reddy, and R. D. Rogers, "Aluminum Recycling via Room Temperature Electrolysis in Ionic Liquids," Presented by B. Wu before the TMS Fall Extraction & Process Metallurgy Meeting: New Technologies for the Next Millennium (2000), Pittsburgh, PA, Program booklet p 12.
358. Z. Guo, M. Li, H. D. Willauer, J. G. Huddleston, R. D. Rogers, and G. C. April, "Polymer-Based Aqueous Biphasic Systems as Improvement for Kraft Hardwood Pulping Process," Presented by Z. Guo before the 2000 Fall AIChE National Meeting (2000), Los Angeles, CA.
359. E. Dadachova, C. Park, H. Luo, N. Eberly, R. Rogers, C. Paik, and M. Brechbiel, "Characterization of $^{67}Ga^{3+}$ Complex with *cis, cis*-1,3,5-Triamino-Cyclohexane-*N,N',N''*-Triacetic Acid," Presented by E. Dadachova before the 2000 International Chemical Congress of Pacific Basin Societies, Pacifichem 2000 (2000), Honolulu, HI, Abstract MEDI 69.
360. R. D. Rogers, A. E. Visser, R. P. Swatloski, and W. M. Reichert, "Chemical and Physical Characteristics of Room-Temperature Ionic Liquids (and Solid-State Analogs): Implications for Their Use as Solvent Alternatives," Presented by R. D. Rogers before the 2000 International Chemical Congress of Pacific Basin Societies, Pacifichem 2000 (2000), Honolulu, HI, Abstract ANYL 281.
361. B. Wu, R. G. Reddy, and R. D. Rogers, "Aluminum Recycling via Room Temperature Electrolysis in Ionic Liquids," Presented by B. Wu before the 2001 TMS Annual Meeting (2001), New Orleans, LA, Abstract Program booklet.
362. R. D. Rogers, "Green Chemistry and Ionic Liquids: Synergies and Ironies," Presented by R. D. Rogers before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 001. (Invited Plenary Presentation)
363. W. M. Reichert, A. E. Visser, R. P. Swatloski, R. D. Rogers, and M. Koel, "Characterization of Solute-Solvent Properties in Ionic Liquids by Gas Chromatography," Presented by W. M. Reichert before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 024.
364. P. Scovazzo, A. E. Visser, J. H. Davis, Jr., R. D. Rogers, C. Koval, and R. D. Noble, "Supported Ionic Liquid Membranes and Facilitated Ionic Liquid Membranes," Presented by P. Scovazzo before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 028.
365. R. D. Rogers, A. E. Visser, W. M. Reichert, and R. P. Swatloski, "Comparative Study of the Chemical and Physical Properties of Hydrophobic vs. Hydrophilic Ionic Liquids," Presented by A. E. Visser before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 049.
366. R. P. Swatloski, A. E. Visser, W. M. Reichert, and R. D. Rogers, "Characteristics of Room-Temperature Ionic Liquids in Various Water/Ethanol Solutions," Presented by R. P. Swatloski before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 050.
367. J. G. Huddleston, H. D. Willauer, and R. D. Rogers, "Free-Energy Relationships and Solvatochromic Properties of Aqueous Solvent Systems Based on Poly(Ethylene Glycol)," Presented by J. G. Huddleston before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 051.
368. W. M. Reichert, A. E. Visser, R. P. Swatloski, S. K. Spear, and R. D. Rogers, "Solubilization and Derivatization of Chitin In Room-Temperature Ionic Liquids," Presented by W. M. Reichert before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 052.
369. S. K. Spear, G. A. Broker, M. A. Klingshirn, L. Moens, M. A. Godshall, T. P. Johnson, and R. D. Rogers, "Solubility of Mono- and Disaccharides in Ionic Liquids," Presented by S. K. Spear before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 053.

370. P. Scovazzo, A. E. Visser, J. H. Davis, Jr., R. D. Rogers, C. Koval, and R. D. Noble, "Supported Ionic Liquid Membranes and Facilitated Ionic Liquid Membranes," Presented by P. Scovazzo before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 054.
371. R. D. Rogers, A. E. Visser, R. P. Swatloski, S. T. Griffin, and W. M. Reichert, "Applications of Room-Temperature Ionic Liquids: Actinide Separations," Presented by A. E. Visser before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 192.
372. B. Wu, R. G. Reddy, and R. D. Rogers, "Potential Applications of Ionic Liquids in Aluminum Industries," Presented by B. Wu before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 196.
373. J. G. Huddleston, G. A. Broker, H. D. Willauer, A. E. Visser, W. M. Reichert, and R. D. Rogers, "Free-Energy Relationships and Solvatochromic Properties of Room-Temperature Ionic Liquids Based on Methylimidazolium Cations," Presented by J. G. Huddleston before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 278.
374. R. D. Rogers, M. A. Godshall, T. P. Johnson, L. Moens, and S. K. Spear, "Green Chemistry, the Carbohydrate Economy, and Ionic Liquids: Compatible Goals, Compatible Chemistries?" Presented by R. D. Rogers before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 347.
375. S. K. Spear, W. M. Reichert, R. P. Swatloski, and R. D. Rogers, "Ionic Liquids as Benign Solvents for Extraction Of Astaxanthin and Solubilitization of Chitin," Presented by S. K. Spear before the 221st ACS National Meeting (2001), San Diego, CA, Abstract I&EC 412.
376. G. J. Lumetta, B. K. McNamara, B. M. Rapko, R. D. Rogers, G. A. Broker, and J. E. Hutchison, "Extraction of Uranium(VI) with Malonamides: What's Really Going On?" Presented by G. J. Lumetta before the 221st ACS National Meeting (2001), San Diego, CA, Abstract INOR 686.
377. J. G. Huddleston, H. D. Willauer, and R. D. Rogers, "Aqueous Biphasic Systems: Linear Free Energy Relationships and Solvatochromic Parameters," Presented by J. G. Huddleston before the DOE Office of Basic Energy Sciences Separations and Analysis Program Contractor's Meeting (2001), San Diego, CA, Abstract book.
378. J. G. Huddleston, H. D. Willauer, S. T. Griffin, and R. D. Rogers, "Aqueous Biphasic Systems: Solute Partitioning and the Physical Nature of the Phases," Presented by R. D. Rogers before the DOE Office of Basic Energy Sciences Separations and Analysis Program Contractor's Meeting (2001), San Diego, CA, Abstract book.
379. R. D. Rogers, J. G. Huddleston, S. K. Spear, A. E. Visser, R. P. Swatloski, and W. M. Reichert, "Green Chemistry and Ionic Liquids: Synergies and Ironies," Presented by R. D. Rogers before the 2001 Spring National Meeting of AIChE (2001), Houston, TX, Abstract 12b. (Invited Symposium Presentation)
380. Z. Guo, H. D. Willauer, J. G. Huddleston, R. D. Rogers, and G. C. April, "Polymer-Based Aqueous Biphasic Systems as Alternatives for Kraft Pulping Process," Presented by Z. Guo before the 2001 Spring National Meeting of AIChE (2001), Houston, TX, Abstract 99g.
381. Z. Guo, J. G. Huddleston, R. D. Rogers, and G. C. April, "Delignification of Hardwood in Aqueous Biphasic Systems with Metal Salts as Catalysts," Presented by Z. Guo before the 2001 Fall National Meeting of AIChE (2001), Reno, NV, Abstract.
382. B. Wu, R. G. Reddy, and R. D. Rogers, "Novel Ionic Liquid Thermal Storage for Solar Thermal Electric Power Systems," Presented by B. Wu before the Solar Forum 2001: Solar Energy: The Power to Choose (2001), Washington, DC, Abstract.
383. R. D. Rogers; S. K. Spear; R. P. Swatloski; W. M. Reichert; M. A. Godshall; T. P. Johnson; L. Moens "Non-Sugar Products from Sugarcane for the New Millennium: Green Pathways to a Carbohydrate Economy?" Presented by R. D. Rogers before the 60th Annual International Sugar Industry Technologists Meeting (2001), Taipei, Taiwan. (Invited Keynote Speaker)
384. R. D. Rogers, S. K. Spear, R. P. Swatloski, W. M. Reichert, M. A. Godshall, T. P. Johnson, and L. Moens, "Green Chemistry, the Carbohydrate Economy, and Ionic Liquids: Compatible Goals, Compatible Chemistries?" Presented by R. D. Rogers before IUPAC CHEMRAWN XIV World Conference, Toward Environmentally Benign Processes and Products (2001), Boulder, CO, Abstract Book.
385. R. D. Rogers, "Scientific journals, a conversation with top editors of science journals," Presented by R. D. Rogers as part of a Panel Discussion before the Image and Meaning Conference (2001), Cambridge, MA, no abstract (Invited Panel Participant).
386. J. G. Huddleston, M. Li, Z. Guo, H. D. Willauer, G. C. April, and R. D. Rogers, "Polymer-Based Aqueous Biphasic Systems Applied to the Alkaline Pulping Process," Presented by J. G. Huddleston before the 5th Annual Green Chemistry and Engineering Conference (2001), Washington, DC, Abstract Book p 3.
387. R. D. Rogers, S. K. Spear, M. A. Godshall, T. P. Johnson, and L. Moens, "Green Chemistry, the Carbohydrate Economy, and Ionic Liquids: Compatible Goals, Compatible Chemistries?" Presented by R. D. Rogers before the 5th Annual Green Chemistry and Engineering Conference (2001), Washington, DC, Abstract Book p 9.
388. A. E. Visser, R. P. Swatloski, W. M. Reichert, and R. D. Rogers, "Chemical and Physical Characteristics of Room Temperature Ionic Liquids and the Associated Implications for their Use as Solvent Alternatives," Presented by A. E. Visser before the 5th Annual Green Chemistry and Engineering Conference (2001), Washington, DC, Abstract Book p 38.
389. R. P. Swatloski, A. E. Visser, W. M. Reichert, and R. D. Rogers, "Crystallographic Investigation of Room-Temperature Ionic Liquids via X-ray Crystallography – Characterization of Low-Melting Analogs," Presented by R. P. Swatloski before the 5th Annual Green Chemistry and Engineering Conference (2001), Washington, DC, Abstract Book p 39.
390. R. D. Rogers, A. E. Visser, and S. T. Griffin, "Extraction of complex metal anions in non-VOC solvents: Room-temperature ionic liquids and aqueous biphasic systems," Presented by R. D. Rogers before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 007.

391. R. D. Rogers, H. A. Betts, R. P. Swatloski, A. E. Visser, and W. M. Reichert, "Synthesis and characterization of 1-alkol-3-methylimidazolium bromide ionic liquids," Presented by H. A. Betts before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 020.
392. R. D. Rogers, M. A. Klingshirn, G. A. Broker, J. D. Holbrey, and K. H. Shaughnessy, "Palladium catalyzed CO/alkene copolymerization in room temperature ionic liquids," Presented by M. A. Klingshirn before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 021.
393. R. P. Swatloski, A. E. Visser, W. M. Reichert, and R. D. Rogers, "Phase behavior of room-temperature ionic liquids in various water/alcohol solutions," Presented by R. P. Swatloski before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 022.
394. R. D. Rogers, G. A. Broker, M. A. Klingshirn, and J. D. Holbrey, "Solubility determination of organic and inorganic compounds in hydrophilic room-temperature ionic liquids," Presented by G. A. Broker before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 023.
395. R. D. Rogers and G. A. Broker, "Crystal engineering of coordination polymers containing molecular recognition sites," Presented by G. A. Broker before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 024.
396. W. M. Reichert, A. E. Visser, R. P. Swatloski, S. K. Spear, and R. D. Rogers, "Derivatization of chitin in room-temperature ionic liquids," Presented by W. M. Reichert before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 025.
397. A. E. Visser, R. P. Swatloski, W. M. Reichert, and R. D. Rogers, "Anionic extractants for metal ion partitioning in room-temperature ionic liquids," Presented by A. E. Visser before the 222nd ACS National Meeting (2001), Chicago, IL, Abstract I&EC 026.
398. R. D. Rogers, G. A. Broker, and M. A. Klingshirn, "Crystal Engineering Using Lanthanide Ions as Nodes in Coordination and Hydrogen Bonded Networks," Presented by R. D. Rogers before the Rare Earths' – 2001 Brazil Conference (2001), Campos do Jordão, Brazil, Abstract IL-12. (Invited Lecture Presentation)
399. G. A. Broker, J. G. Huddleston, J. D. Holbrey, and R. D. Rogers, "Biphasic Systems Formed by Water-Miscible Room-Temperature Ionic Liquids in the Presence of Aqueous Salt Solutions," Presented by G. A. Broker before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 37.
400. G. A. Broker, J. G. Huddleston, H. D. Willauer, and R. D. Rogers, "Solvatochromatic Properties and Linear Solvent Energy Relationships of Room-Temperature Ionic Liquids," Presented by G. A. Broker before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 38.
401. J. G. Huddleston, H. D. Willauer, Z. Guo, G. C. April, and R. D. Rogers, "Aqueous Biphasic Systems in High Temperature Reactive Extraction: Experiences with the Alkaline Pulping of Wood for Paper and Biomass Production," Presented by J. G. Huddleston before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 46.
402. M. A. Klingshirn, J. D. Holbrey, and R. D. Rogers, "The Use of Room Temperature Ionic Liquids for the Extraction of Metal Ions from Non-Aqueous Solvents," Presented by M. A. Klingshirn before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 48.
403. R. D. Rogers, J. D. Holbrey, J. G. Huddleston, G. A Broker, A. E. Visser, R. P. Swatloski, and W. M. Reichert, "Chemical and Physical Characteristics of Room-Temperature Ionic Liquids (and Solid-State Analogs): Implications for Their Use as 'Green' Solvent Alternatives," Presented by R. D. Rogers before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 61.
404. H. D. Willauer, J. G. Huddleston, and R. D. Rogers, "Solvent Properties of PEG-Salt Aqueous Biphasic Systems (ABS) Based on Linear Free Energy Relationships and Solvatochromic Parameters," Presented by H. D. Willauer before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 68.
405. S. K. Spear, J. G. Huddleston, and R. D. Rogers, "Activity of Laccase Immobilized in a PEG Gel Matrix," Presented by S. K. Spear before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 79.
406. J. G. Huddleston, H. D. Willauer, S. T. Griffin, and R. D. Rogers, "Solute Partitioning and Phase Behavior in Aqueous Biphasic Systems," Presented by J. G. Huddleston before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 82.
407. A. E. Visser, R. P. Swatloski, W. M. Reichert, and R. D. Rogers, "Actinide Separations in Room-Temperature Ionic Liquids," Presented by A. E. Visser before the Twelfth Symposium on Separations Science and Technology for Energy Applications (2001), Gatlinburg, TN, Abstract Book p 88.
408. R. D. Rogers, J. D. Holbrey, R. P. Swatloski, and W. M. Reichert, "Reverse Crystal Engineering: Can We Use the Concepts Learned to Make New Room Temperature Ionic Liquids for Applications as Green Solvent Alternatives?" presented by R. D. Rogers before the 59th Pittsburgh Diffraction Conference (2001), Covington, KY, Abstract Book. (Invited Symposium Presentation)
409. M. G. Benton, M. P. Scott, J. D. Holbrey, R. D. Rogers, and C. S. Brazel "A New Class of Plasticizing Agents: Room Temperature Ionic Liquids in Poly (Methyl Methacrylate) and Polystyrene," Presented by C. S. Brazel before the 2001 Fall National Meeting of AIChE (2001), Reno, NV, Abstract 118b.
410. J. D. Holbrey, A. E. Visser, and R. D. Rogers, "A New Class of Solvents for TRU Dissolution and Separation: Ionic Liquids," Presented by J. D. Holbrey before the Department of Energy Environmental Management Science Program High Level Waste Kick-Off Meeting (November 7-9, 2001), Richland, WA, no abstract.

411. R. D. Rogers, A. E. Visser, and J. H. Davis, Jr., "Actinide Separations Utilizing Room Temperature Ionic Liquids," Presented by A. E. Visser at the Actinides-2001 International Conference (2001), Hayama, Japan, Abstract 4O10.
412. A. E. Visser, M. P. Jensen, K. L. Nash, and R. D. Rogers, "Investigation of Actinide Complexation and Solvation in Room Temperature Ionic Liquids," Presented by A. E. Visser at the Actinides-2001 International Conference (2001), Hayama, Japan, Abstract 2O15.
413. R. D. Rogers, A. E. Visser, J. H. Davis, Jr., C. Koval, D. L. DuBois, P. Scovazzo, and R. D. Noble, "Designing or Choosing Ionic Liquids for Utilization in Supported Ionic Liquid Membranes and Facilitated Ionic Liquid Membranes," Presented by R. D. Rogers before the 2002 Spring National Meeting of AIChE (2002), New Orleans, LA, Abstract 9e. (Invited Symposium Presentation)
414. S. K. Spear and R. D. Rogers, "Ionic Liquids: Green Solvents for Carbohydrate Studies," Presented by S. K. Spear before SPRI 2002, Conference on Sugar Processing Research (2002), New Orleans, LA, Abstract Book.
415. A. E. Visser, J. D. Holbrey, and R. D. Rogers, "Room temperature ionic liquids as alternatives to traditional organic solvents in solvent extraction," Presented by R. D. Rogers before the 16th International Solvent Extraction Conference, ISEC 2002 (2002), Cape Town, South Africa, Abstract Book p 11. (Invited Plenary Presentation)
416. R. P. Planalp, A. M. Przyborowska, G. Park, N. Ye, F. H. Lu, R. D. Rogers, G. A. Broker, S. V. Torti, and M. W. Brechbiel, "Novel cytotoxic chelators that bind iron(II) selectively over zinc(II) under aqueous aerobic conditions," Presented by R. P. Planalp before the *Biometals 2002: 3rd International Biometals Symposium* (2002), London, United Kingdom, Abstract S38.
417. R. P. Planalp, K. A. Deal, G. Park, J. Shao, F. H. Lu, N. D. Chasteen, R. D. Rogers, and M. W. Brechbiel, "Metal-promoted phosphate diester hydrolysis by novel Cu(II) complexes of tris(N-alkylated) *cis,cis*-1,3,5-triaminocyclohexane," Presented by R. P. Planalp before the *Biometals 2002: 3rd International Biometals Symposium* (2002), London, United Kingdom, Abstract E5.
418. R. P. Planalp, S. Lai, G. Lu, A. M. Przyborowska, G. Park, R. D. Rogers, G. A. Broker, M. W. Brechbiel, S. V. Torti, and R. Ma, "Structure, reactivity and cytotoxicity of tripodal chelators and complexes: the effects of heterocyclic donor groups and enforced coordination geometry on Fe(II) complexation by potential antitumor agents," Presented by R. P. Planalp before the *Biometals 2002: 3rd International Biometals Symposium* (2002), London, United Kingdom, Abstract E4.
419. R. P. Swatloski, A. E. Visser, J. H. Davis, Jr., and R. D. Rogers, "Actinides in room temperature ionic liquids; old elements - new solvents," Presented by R. P. Swatloski before the 223rd ACS National Meeting (2002), Orlando, FL, Abstract NUCL 132.
420. R. D. Rogers, A. E. Visser, J. H. Davis, Jr., C. Koval, D. L. DuBois, P. Scovazzo, and R. D. Noble, "Choosing ionic liquids for supported ionic liquid membranes," Presented by R. D. Rogers before the 223rd ACS National Meeting (2002), Orlando, FL, Abstract I&EC 128. (Invited Symposium Presentation)
421. Z. Guo, J. G. Huddleston, R. D. Rogers, and G. C. April, "Polyethylene glycol effects in aqueous biphasic systems delignification," Presented by Z. Guo before the 223rd ACS National Meeting (2002), Orlando, FL, Abstract CELL 062.
422. R. D. Rogers and J. D. Holbrey, "Challenges and Opportunities in the Use of Ionic Liquids: Focus on Separations and Recycle," Presented by R. D. Rogers before the Challenges of Novel Technologies in Molecular Chemistry Conference (2002), Rennes, France, Abstract Book. (Invited Keynote Presentation)
423. J. D. Holbrey, K. H. Shaughnessy, M. A. Klingshirn, G. A. Broker, and R. D. Rogers, "Transition Metal Catalyzed CO/Olefin Co-Polymerization in Room Temperature Ionic Liquids," Presented by J. D. Holbrey before the Thirteenth International Symposium on Molten Salts, part of the 201st National Meeting of the Electrochemical Society (2002), Philadelphia, PA, Abstract 1400.
424. R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Ionic Liquids for the Dissolution and Regeneration of Cellulose," Presented by R. P. Swatloski before the Thirteenth International Symposium on Molten Salts, part of the 201st National Meeting of the Electrochemical Society (2002), Philadelphia, PA, Abstract 1394.
425. R. D. Rogers and A. E. Visser, "Actinide Chemistry in Novel Solvent Media: Room Temperature Ionic Liquids," Presented by R. D. Rogers before the Thirteenth International Symposium on Molten Salts, part of the 201st National Meeting of the Electrochemical Society (2002), Philadelphia, PA, Abstract 1446. (Invited Presentation)
426. R. D. Rogers and W. M. Reichert, "Polymorphic 1-butyl-3-methylimidazolium chloride: In search of clues to make ionic salts, ionic liquids," Presented by R. D. Rogers before the American Crystallographic Association Annual Meeting (2002), San Antonio, TX, Abstract 08.04.21. (Invited Presentation)
427. R. D. Rogers, J. D. Holbrey, S. K. Spear, and R. P., Swatloski, "Ionic Liquids—A Look at the Dissolution of Cellulose," Presented by R. D. Rogers before the 6th Annual Green Chemistry and Engineering Conference (2002), Washington, DC, Abstract Book p 17.
428. J. G. Huddleston, H. D. Willauer, G. D. Broker, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Predicting the Performance of Alternative Solvents Through the Use of Free Energy Relationships," Presented by J. G. Huddleston before the 6th Annual Green Chemistry and Engineering Conference (2002), Washington, DC, Abstract Book p 19.
429. J. D. Holbrey and R. D. Rogers, "Polymerization and Polymers in Room Temperature Ionic Liquids," Presented by J. D. Holbrey before the 6th Annual Green Chemistry and Engineering Conference (2002), Washington, DC, Abstract Book p 20.
430. R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Ionic Liquids as Green Solvents for Regeneration/Engineering of Cellulose Based Products," Presented by R. P. Swatloski before the 6th Annual Green Chemistry and Engineering Conference (2002), Washington, DC, Abstract Book p 43.
431. R. D. Rogers and A. E. Visser, "Room Temperature Ionic Liquids: New Solvents for f-element Separations and Associated Solution Chemistry," Presented by R. D. Rogers before the 23rd Rare Earth Research Conference (2002), Davis, CA, Abstract OSE-1-05.

432. R. D. Rogers and J. D. Holbrey, "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers before the 57th Annual Calorimetry Conference CALCON 2002 (2002), New Brunswick, NJ, Abstract 47. (Invited Plenary Presentation)
433. J. D. Holbrey, W. M. Reichert, S. K. Spear, R. P. Swatloski, M. B. Turner, A. E. Visser, and R. D. Rogers, "Getting started with Ionic Liquids: An experience-based tutorial on synthesis and handling," Presented by J. D. Holbrey, W. M. Reichert, S. K. Spear, R. P. Swatloski, M. B. Turner, A. E. Visser, and R. D. Rogers before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 1.
434. J. D. Holbrey and R. D. Rogers, "Clean synthesis of 1,3-dialkylimidazolium ionic liquids," Presented by J. D. Holbrey before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 012.
435. J. D. Holbrey, W. M. Reichert, R. G. Reddy, and R. D. Rogers, "Specific heat capacities of common ionic liquids: an examination of the potential for using ionic liquids as thermal fluids," Presented by J. D. Holbrey before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 070.
436. R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Ionic Liquids: new solvents for non-derivitized cellulose dissolution," Presented by R. P. Swatloski before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 076.
437. W. M. Reichert, J. D. Holbrey, and R. D. Rogers, "Insight into the solvent properties of ionic liquids: a comparative study of solute partitioning in organic/ionic liquid biphasic systems," Presented by W. M. Reichert before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 087.
438. A. E. Visser, M. P. Jensen, K. L. Nash, and R. D. Rogers, "An investigation of actinide and fission product extraction in room temperature ionic liquids: Liquid/liquid separations and in-situ solution analysis," Presented by A. E. Visser before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 088.
439. S. K. Spear, W. M. Reichert, and R. D. Rogers, "Liquid-liquid extraction from ionic liquids using renewable plant-based soybean oil methyl ester as alternatives to organic solvents," Presented by S. K. Spear before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 091.
440. K. H. Shaughnessy, M. A. Klingshirn, S. J. P'Pool, J. D. Holbrey, and R. D. Rogers, "Metal-catalyzed olefin polymerization in polar, non-coordinating ionic liquids," Presented by K. H. Shaughnessy before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 121.
441. A. E. Visser, J. G. Huddleston, J. D. Holbrey, and R. D. Rogers, "Hydrophobic *n*-alkyl-isoquinolinium ionic liquids: characterization, solvent properties, and use in separations," Presented by A. E. Visser before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 021.
442. W. M. Reichert, J. D. Holbrey, and R. D. Rogers, "Comparative solid state analyses of polymorphic 1-butyl-3-methylimidazolium halide ionic liquids," Presented by W. M. Reichert before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 022.
443. M. B. Turner, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "Cellulase activity in an ionic liquid," Presented by M. B. Turner before the 224th ACS National Meeting (2002), Boston, MA, Abstract I&EC 023.
444. K. Yamato, R. A. Bartsch, M. L. Dietz, and R. D. Rogers, "Stereospecific syntheses of the *trans-trans* and the *cis-trans*-isomers of dicyclohexano-18-crown-6," ," Presented by K. Yamato before the 224th ACS National Meeting (2002), Boston, MA, Abstract ORGN 032.
445. K. H. Shaughnessy, S. J. P'Pool, M. A. Klingshirn, J. D. Holbrey, and R. D. Rogers, "Polar noncoordinating ionic liquids as solvents for late transition metal-catalyzed olefin polymerization," Presented by K. H. Shaughnessy before the 224th ACS National Meeting (2002), Boston, MA, Abstract INOR 524.
446. H.-s. Chong, G. Bishwajit, G. A. Broker, R. D. Rogers, and M. W. Brechbeil, "Stereoselective and regioselective synthesis of azepane and azepine derivatives via piperidine ring expansion," Presented by H.-s. Chong before the 224th ACS National Meeting (2002), Boston, MA, Abstract ORGN 508.
447. M. G. Benton, J. D. Holbrey, R. D. Rogers, J. W. Mays, and C. S. Brazel, "Ionic Liquids as Environmentally-Benign Solvents for Synthesis of PMMA in [bmim][PF_6]: Kinetic, Thermal and Mechanical Analysis," Presented by C. S. Brazel before the 2002 AIChE Annual Meeting (2002), Indianapolis, IN, Abstract Book 233h.
448. R. D. Rogers, "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers before the 41st Eastern Analytical Symposium & Exposition (2002), Somerset, NJ, Abstract and Program Booklet page 21 (Invited Symposium Presentation).
449. J. D. Holbrey, W. M. Reichert, R. K. Reddy, and R. D. Rogers, "Specific Heat Capacities of Common Room Temperature Ionic Liquids: An Examination of the Potential for Using Ionic Liquids as Thermal Fluids," Presented by J. D. Holbrey before EUCHEM 2002, Molten Salts Conference (2002), Oxford, United Kingdom, Abstract K7. (Keynote Lecture)
450. R. D. Rogers and J. D. Holbrey, "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers before EUCHEM 2002, Molten Salts Conference (2002), Oxford, United Kingdom, Abstract K15. (Keynote Lecture)
451. J. D. Holbrey and R. D. Rogers, "Clean Synthesis of Ionic Liquids," Presented by J. D. Holbrey before the Gordon Research Conference on Green Chemistry (2002), Oxford, United Kingdom, No abstract.
452. R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Green solvents for the dissolution and regeneration of cellulose--A look at ionic liquids," Presented by R. P. Swatloski before the Gordon Research Conference on Green Chemistry (2002), Oxford, United Kingdom, No abstract.

453. W. M. Reichert, J. D. Holbrey, J. G. Huddleston, and R. D. Rogers, "Insight into the Solvent Properties of Ionic Liquids: A Comparative Study of Organic Solute Partitioning in Liquid/Liquid Systems," Presented by W. M. Reichert before the Gordon Research Conference on Green Chemistry (2002), Oxford, United Kingdom, No abstract.
454. R. D. Rogers and J. D. Holbrey, "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by J. D. Holbrey at Green Solvents for Catalysis - Environmentally Benign Reaction Media (2002), Bruchsal, Germany, Abstract Book p 17.
455. J. D. Holbrey, K. H. Shaughnessy, M. A. Klingshirn, G. A. Broker, and R. D. Rogers, "Transition Metal Catalysed CO/Olefin Co-polymerisation in Room Temperature Ionic Liquids," Presented by J. D. Holbrey at Green Solvents for Catalysis - Environmentally Benign Reaction Media (2002), Bruchsal, Germany, Abstract Book p 69.
456. R. D. Rogers, "Overview of State-of-the-Art in Ionic Liquids Research," Presented by R. D. Rogers at the Air Force Office of Scientific Research/Air Force Propulsion Laboratory Workshop on Energetic Ionic Liquids" (2002), Dulles, VA, No Abstract. (Invited Plenary Presentation)
457. R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Ionic liquids as green solvents for the dissolution and regeneration of cellulose," Presented by R. P. Swatloski before the 225th ACS National Meeting (2003), New Orleans, LA, Abstract CELL 131.
458. R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Properties of regenerated cellulose from ionic liquids," Presented by R. P. Swatloski before the 225th ACS National Meeting (2003), New Orleans, LA, Abstract I&EC 167.
459. S. J. P'Pool, M. A. Klingshirn, J. D. Holbrey, R. D. Rogers, and K. H. Shaughnessy, "Polar, non-coordinating ionic liquids as solvents for coordination polymerization of olefins," Presented by S. J. P'Pool before the 225th ACS National Meeting (2003), New Orleans, LA, Abstract ORGN 057.
460. W. M. Reichert, J. D. Holbrey, M. Nieuwenhuyzen, O. Sheppard, C. Hardacre, and R. D. Rogers, "Liquid clathrate formation in ionic liquids and its effects on the solvent properties," Presented by W. M. Reichert before the 225th ACS National Meeting (2003), New Orleans, LA, Abstract I&EC 168.
461. R. D. Rogers, "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers to Science in Industry, Fine Chemicals Group Meeting "Chemical Solutions with Ionic Liquids" (2003), London, United Kingdom. (Invited Presentation)
462. R. D. Rogers, "Fundamentals of Solute Partitioning in Aqueous Biphasic Systems," Presented by R. D. Rogers before the Department of Energy Basic Energy Sciences Heavy Elements and Separations Contractors Meeting (2003), Santa Fe, NM, Abstract P6-6.
463. R. D. Rogers, "Aqueous Biphasic Systems: Novel Delivery Systems and Novel Applications," Presented by R. D. Rogers before the Department of Energy Basic Energy Sciences Heavy Elements and Separations Contractors Meeting (2003), Santa Fe, NM, Abstract P6-7.
464. R. D. Rogers, "A New Class of Solvents for TRU Dissolution and Separation: Ionic Liquids," Presented by R. D. Rogers before the Department of Energy Environmental Management Sciences Program Principal Investigators Workshop (2003), Richland, WA, no abstract.
465. R. D. Rogers, J. D. Holbrey, S. K. Spear, K. E. Gutowski, N. J. Bridges, V. A. Cocalia, and R. P. Swatloski, "Application of Ionic Liquid Technologies to Nuclear Separations," Presented by R. D. Rogers before the 27th Actinide Separations Conference (2003), Lemont, IL, Abstract Book p 12.
466. V. A. Cocalia, N. J. Bridges, S. T. Griffin, S. K. Spear, and R. D. Rogers, "Uranyl Extraction using Cyanex-272 in 1-Decyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide," Presented by V. A. Cocalia before the 27th Actinide Separations Conference (2003), Lemont, IL, Abstract Book p 36.
467. J. D. Holbrey, W. M. Reichert, M. B. Turner, K. Green, and R. D. Rogers, "Development of Ionic Liquids Containing Environmentally Acceptable and Sustainable Components," Presented by J. D. Holbrey before the Seventh Annual Green Chemistry and Engineering Conference (2003), Washington, DC, Abstract 8.
468. R. P. Swatloski, J. D. Holbrey, S. K. Spear, R. B. Moore, and R. D. Rogers, "Greener Dissolution of Cellulose: Can Ionic Liquids Compete with *N*-Methyl-morpholine-*N*-oxide in the Lyocell Process?" Presented by R. P. Swatloski before the Seventh Annual Green Chemistry and Engineering Conference (2003), Washington, DC, Abstract 10.
469. K. E. Gutowski, J. G. Huddleston, G. A. Broker, H. D. Willauer, R. P. Swatloski, and R. D. Rogers, "Controlling the Aqueous Miscibility of Hydrophilic Ionic Liquids by Addition of Water-Structuring Salts: Novel Aqueous Biphasic Systems for Separations and Recycle," Presented by K. E. Gutowski before the Seventh Annual Green Chemistry and Engineering Conference (2003), Washington, DC, Abstract 32.
470. C. R. Lea, I. A. Miller, D. M. Brown, R. P. Swatloski, and R. D. Rogers, "X-ray Crystallography of Novel Ionic Liquids Based on *N*-Akylmorpholinium Salts," Presented by D. M. Brown before the Seventh Annual Green Chemistry and Engineering Conference (2003), Washington, DC, Abstract 34.
471. M. B. Turner, S. K. Spear, R. P. Swatloski, J. D. Holbrey, and R. D. Rogers, "Entrapment and Activity of Biomolecules in Cellulose Films Regenerated from Ionic Liquids," Presented by M. B. Turner before the Seventh Annual Green Chemistry and Engineering Conference (2003), Washington, DC, Abstract 40.
472. W. M. Reichert, J. D. Holbrey, J. G. Huddleston, and R. D. Rogers, "Solvent Properties and Liquid Clathrate Behavior of Ionic Liquids Determined by Partitioning Experiments and Linear Solvent Energy Relationships," Presented by W. M. Reichert before the Seventh Annual Green Chemistry and Engineering Conference (2003), Washington, DC, Abstract 75.

473. M. A. Klingshirn, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Investigation of the Properties of Poly(ethylene Glycol) Hydrogels Doped with Ionic Liquids," Presented by M. A. Klingshirn before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 45.
474. J. G. Huddleston, S. K. Spear, and R. D. Rogers, "The Aqueous Solution Behavior of Poly(ethyleneglycol) Hydrogels," Presented by J. G. Huddleston before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 48.
475. S. K. Spear, M. B. Turner, J. G. Huddleston, and R. D. Rogers, "Poly(ethylene glycol) Hydrogel for Laccase Immobilization," Presented by S. K. Spear before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 51.
476. J. Chen, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "Polyethylene Glycol Aqueous Solutions as Green Reaction Medium," Presented by J. Chen before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 52.
477. S. T. Griffin, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "A Comparison of the Effect of Temperature on the Uptake of TcO4- in PEG Based ABS and onto ABEC Resins," Presented by S. T. Griffin before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 52.
478. S. T. Griffin, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "Partitioning of Iodide in Aqueous Biphasic Systems and onto ABEC® Resins," Presented by S. T. Griffin before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 59.
479. S. K. Spear, S. T. Griffin, J. G. Huddleston, and R. D. Rogers, "Partitioning Studies of Small Molecules in Ammonium Carbamate/Polyethylene Glycol Aqueous Biphasic Systems," Presented by S. K. Spear before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 59.
480. J. Chen, S. K. Spear, J. G. Huddleston, and R. D. Rogers, "Polyethylene Glycol Aqueous Solutions as Green Reaction Medium," Presented by J. Chen before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 60.
481. J. G. Huddleston, H. D. Willauer, S. T. Griffin, S. K. Spear, and R. D. Rogers, "Free Energy Relationships and Solvent Properties of PEG-Salt Aqueous Biphasic Systems," Presented by J. G. Huddleston before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 60.
482. J. G. Huddleston, Z. Guo, H. D. Willauer, M. Li, S. K. Spear, and R. D. Rogers, "Aqueous Biphasic Systems Applied to the Delignification of Cellulosics ? Experiences with the Paper Pulping Process," Presented by J. G. Huddleston before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 60.
483. S. T. Griffin, S. K. Spear, and R. D. Rogers, "Removal of Mercury from Tap Water and Groundwater Using Aqueous Biphasic Extraction Chromatographic Resin," Presented by S. T. Griffin before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 60.
484. M. A. Klingshirn, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Synthesis and Characterization of a Poly(ethylene Glycol) - Silica Sol Composite," Presented by M. A. Klingshirn before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 61.
485. M. L. Moody, H. D. Willauer, J. G. Huddleston, and R. D. Rogers, "Characterization studies of PEG/Dextran Aqueous Biphasic Systems Involving Linear Solvation Energy Relationship, pH, and Temperature," Presented by M. L. Moody before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 61.
486. M. L. Moody, J. G. Huddleston, and R. D. Rogers, "Use of Linear Solvation Energy Relationships in Studies of PEG/Organic Biphasic Systems," Presented by M. L. Moody before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 61.
487. R. D. Rogers, J. G. Huddleston, J. D. Holbrey, S. K. Spear, and M. B. Turner, "Ionic Liquids in Separations: What Are They? Are They Useful? and How Do They Compare to Aqueous Biphasic Systems?" Presented by R. D. Rogers before the 12th International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 51.
488. R. D. Rogers, "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Reactions, and the Choice of Ionic Liquid and/or Process," Presented by J. G. Huddleston before the 1st International Symposium on Process Intensification & Miniaturisation (PIM-1 2003), Newcastle upon Tyne, United Kingdom, Abstract Book. (Invited Keynote Lecture).
489. R. D. Rogers, "How to Talk to the Public About What You Do," Communications Clinic at the 226th ACS National Meeting (2003), New York, NY. (Invited Panel Participant).
490. R. D. Rogers, J. D. Holbrey, S. K. Spear, K. E. Gutowski, N. J. Bridges, V. A. Cocalia, and R. P. Swatloski, Application of ionic liquid technologies to nuclear separations," Presented by R. D. Rogers before the 226th ACS National Meeting (2003), New York, NY, Abstract NUCL 092. (Invited Presentation).
491. M. B. Turner, S. K. Spear, R. P. Swatloski, J. D. Holbrey, and R. D. Rogers "Cellulose films regenerated from ILs and their role as scaffolding for enzyme attachment via glutaraldehyde," Presented by M. B. Turner before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 190.
492. W. M. Reichert, J. D. Holbrey, and R. D. Rogers, "Relationships between solid-state ion-ion and hydrogen-bonding interactions and liquid properties in ionic liquid forming salts," Presented by W. M. Reichert before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 132.

493. K. E. Gutowski, G. A. Broker, N. J. Bridges, J. G. Huddleston, H. D. Willauer, J. D. Holbrey, and R. D. Rogers, "Formation of aqueous biphasic systems with hydrophilic ionic liquids via the addition of water-structuring salts: applications to nuclear tank wastes," Presented by K. E. Gutowski before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 131.
494. J. D. Holbrey, M. B. Turner, W. M. Reichert, and R. D. Rogers, "Synthesis, characterization, and applications of new hydroxyl-appended ionic liquids," Presented by J. D. Holbrey before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 130.
495. R. P. Swatloski, R. D. Rogers, C. R. Lea, I. A. Miller, and D. M. Brown, "X-Ray crystallography of novel ionic liquids based on N-alkylmorpholinium salts," Presented by R. P. Swatloski before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 129.
496. J. D. Holbrey, W. M. Reichert, M. B. Turner, K. Green, and R. D. Rogers, "Development of Ionic Liquids containing environmentally acceptable and sustainable components," Presented by J. D. Holbrey before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 128.
497. R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Ionic liquids as green solvents: Engineering new bio-based materials," Presented by R. P. Swatloski before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 090.
498. W. M. Reichert, J. G. Huddleston, J. D. Holbrey, and R. D. Rogers, "Abraham solvent parameters for ionic liquid/organic two-phase systems," Presented by W. M. Reichert before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 070.
499. R. D. Rogers, J. D. Holbrey, S. K. Spear, K. E. Gutowski, and R. P. Swatloski, "CMPO-impregnated cellulosic materials from ionic liquids for f-element separations," Presented by R. D. Rogers before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 045. (Invited Presentation.)
500. J. D. Holbrey, R. P. Swatloski, W. M. Reichert, J. F. Brennecke, K. R. Seddon, U. Hakala, M. Deetlefs, M. Nieuwenhuyzen, T. Welton, P. Mawdsley, J. Vallance, O. Sheppard, R. D. Rogers," Getting started with Ionic Liquids: An experience-based tutorial," Presented by all authors before the 226th ACS National Meeting (2003), New York, NY, Abstract I&EC 033.
501. A. M. Przyborowska, G. A. Broker, R. D. Rogers, M. W. Brechbiel, and R. P. Planalp, "Electronic properties and structures of novel Cu(II) complexes of hexadentate aminopyridyl ligands and their alkylated derivatives," Presented by A. M. Przyborowska before the 226th ACS National Meeting (2003), New York, NY, Abstract INOR 486.
502. R. P. Planalp, G. Lu, A. M. Przyborowska, M. W. Brechbiel, S-j. Lai, G. Park, G. A. Broker, R. D. Rogers, R. Ma, and S. V. Torti, "The metal-complexation properties of tripodal hexadentate chelators: Effects of heterocycle donor arms, tripod framework and imine formation on Fe(II) chelation and cytotoxicity," Presented by R. P. Planalp before the 226th ACS National Meeting (2003), New York, NY, Abstract INOR 058.
503. R. D. Rogers, "Utilizing Neoteric Solvent Systems to Explore New Decontamination Technologies," Presented by R. D. Rogers before the Radionuclide Decontamination Science and Technology Workshop (2003), Los Alamos, NM. (Invited Presentation).
504. K. E. Gutowski, N. J. Bridges, V. A. Cocalia, S. K. Spear, J. D. Holbrey, J. H. Davis, Jr., and R. D. Rogers, "Approaches to Nuclear Separations Using Room Temperature Ionic Liquids," Presented by K. E. Gutowski before Global 2003 "Atoms for Prosperity: Updating Eisenhower's Global Vision for Nuclear Energy," part of the 2003 ANS/ENS International Winter Meeting (2003), New Orleans, LA. (Invited Presentation).
505. R. D. Rogers, "Greener Industry: A Growing Trend," Panel Discussion and Invited Speaker before the Society of Women Engineers National Conference (2003), Birmingham, AL, Program Book, page 34 (Invited Presentation).
506. R. D. Rogers, "Alternative Separations in Support of DOE's Mission," Presented by R. D. Rogers before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 18. (Invited Plenary Presentation).
507. N. J. Bridges, V. A. Cocalia, A. E.Visser, J. H. Davis, Jr., J. Holbrey, and R. D. Rogers, "Task Specific Ionic Liquids for Recovery of Actinides from Aqueous Acid Media," Presented by N. J. Bridges before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 36-37.
508. K. E. Gutowski, S. K. Spear, and R. D. Rogers, "Use of Ionic Liquids in the Removal Actinides from Nitric Acid Media by HOPO-Type Extractants," Presented by K. E. Gutowski before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 43.
509. R. D. Rogers, J. D. Holbrey, S. K. Spear, K. E. Gutowski, and R. P. Swatloski, "CMPO-Impregnated Cellulosic Materials from Ionic Liquids for Actinide Separations," Presented by R. D. Rogers before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 52.
510. K. E. Gutowski, G. A. Broker, H. D. Willauer, J. G. Huddleston, R. P. Swatloski, J. D. Holbrey, and R. D. Rogers, "Controlling the Aqueous Miscibility of Hydrophilic Ionic Liquids via the Addition of Water-Structuring Salts," Presented by K. E. Gutowski before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 68.
511. N. J. Bridges and R. D. Rogers, "Comparative Studies of Cyanex-923® in Ionic Liquids Versus Traditional Organic Solvents," Presented by N. J. Bridges before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 79.
512. V. A. Cocalia, N. J. Bridges, S. T. Griffin, S. K. Spear, and R. D. Rogers, "Actinide Partitioning using the Traditional Extractant Cyanex-272 in a Room Temperature Ionic Liquid as a Novel Medium for Liquid/Liquid Extraction," Presented by V. A. Cocalia before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 80.

513. R. D. Rogers, “Alternative Solvents,” Presented by R. D. Rogers before the Indo-US Science and Technology Forum Workshop on Green Chemistry (2003), Delhi, India. (Invited Delegate/Workshop Instructor).
514. J. D. Warner and R. D. Rogers, “Crystal Engineering and Non Covalent Derivatization,” Presented by J. D. Warner and R. D. Rogers before the Indo-US Science and Technology Forum Workshop on Green Chemistry (2003), Delhi, India. (Invited Delegate/Workshop Instructor).
515. R. D. Rogers and D. L. Hjeresen, “International Issues,” Presented by R. D. Rogers and D. L. Hjeresen before the Indo-US Science and Technology Forum Workshop on Green Chemistry (2003), Delhi, India. (Invited Delegate/Workshop Instructor).
516. R. D. Rogers, G. A. Broker, K. E. Gutowski, and N. J. Bridges, “Crystal Engineering Using Lanthanide Ions as Nodes,” Presented by R. D. Rogers before the International Conference on Materials for Advanced Technologies (ICMAT 2003)/International Union of Materials Research Societies International Conference in Asia (ICA 2003), Singapore, Abstract D-4-1-I. (Invited Symposium Presentation).
517. R. D. Rogers, “Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies,” Presented by R. D. Rogers before the LICP Discussions No. 1 Workshop - Ionic Liquids: Progress and Prospects (2004), Lanzhou China, Abstract book pp 9-19. (Invited Keynote Presentation).
518. R. D Rogers, J. D Holbrey, S. K Spear, W. M. Reichert, M. R Smiglac, H. Yang, K. Manju, and A. R Katritzky, “Energetic ionic liquids: Fundamental studies relating target structures and key physical properties,” Presented by R. D. Rogers to the AFOSR Contractor’s Review on Ionic Liquids Research (2004), Tampa, FL.
519. R. D. Rogers, “Green Chemistry,” Presented by R. D. Rogers before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2004), Tuscaloosa, AL.
520. R. D. Rogers, “Liquid/Liquid Separations,” Presented by R. D. Rogers before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2004), Tuscaloosa, AL.
521. M. A. Klingshirn, S. K. Spear, R. Subramanian, J. D. Holbrey, and R. D. Rogers, “Synthesis, characterization, and applications of ionic liquid-poly(ethylene) glycol gel matrices,” Presented by M. A. Klingshirn before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract POLY 638.
522. J. D. Holbrey, J. Chen; M. B. Turner, R. P. Swatloski, S. K. Spear, and R. D. Rogers, “Applying ionic liquid solvent characteristics for controlled processing of polymer materials,” Presented by J. D. Holbrey before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract POLY 607.
523. K. H. Shaughnessy, S. J. P'Pool, M. A. Klingshirn, and R. D. Rogers, “Coordination polymerization of alkenes in ionic liquid solvents,” Presented by K. H. Shaughnessy before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract POLY 600.
524. M. A. Klingshirn, S. J. P'Pool, K. H. Shaughnessy, and R. D. Rogers, “Palladium-catalyzed hydroesterification of styrene in ionic liquids,” Presented by M. A. Klingshirn before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract INOR 770.
525. R. P. Planalp, N. Ye, G. Park, A. M. Przyborowska, P. E. Sloan, T. Clifford, C. B. Bauer, G. A. Broker, R. D. Rogers, R. Ma, S. V. Torti, and M. W. Brechbiel, “Nickel(II), copper(II) and zinc(II) binding properties and cytotoxicity of tripodal, hexadentate tris(ethylenediamine)-analogue chelators,” Presented by R. P. Planalp before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract INOR 107.
526. W. M. Reichert, J. D. Holbrey, S. T. Griffin, V. A. Cocalia, N. J. Bridges, J. Chambers, and R. D. Rogers, “Task specific ionic liquids that incorporate poly (ethylene glycols) functionality for the extraction of metal ions,” Presented by W. M. Reichert before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract I&EC 228.
527. R. D. Rogers, N. J. Bridges, J. D. Holbrey, H. Luo, S. Dai, and P. V. Bonnesen, “The role of ion exchange vs. solvent extraction processes in metal ion partitioning in ionic liquid/aqueous systems: cesium extractions with calix[4]arene-bis(tert-octylbenzo-crown-6) in imidazolium bistrifylimide ionic liquids,” Presented by R. D. Rogers before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract I&EC-227. (Invited Presentation)
528. G. J. Lumetta, B. K. McNamara, L. A. Snow, D. W. Wester, R. D. Rogers, and N. J. Bridges, “Characterization of the coordinative modes of alkyl-substituted Klaui ligand,” Presented by G. J. Lumetta before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract I&EC 222.
529. R. D. Rogers, K. E. Gutowski, S. T. Griffin, and J. D. Holbrey, “Aqueous biphasic systems based on salting-out polyethylene glycol or ionic liquid solutions: Strategies for actinide or fission product separations,” Presented by R. D. Rogers before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract ENVR 033. (Invited Presentation)
530. T. L. Shamery, S. K. Spear, and R. D. Rogers, “How the RET experience at The University of Alabama was incorporated into the high school teaching experience,” Presented by T. L. Shamery before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CHED 090.
531. R. D. Rogers, J. D. Holbrey, S. K. Spear, and M. B. Turner, “Ionic liquids as green solvents: Engineering bioactive cellulose materials,” Presented by R. D. Rogers before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CELL 198. (Invited Presentation)
532. R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, “Utilization of biorenewable resources: Bio-based materials from ionic liquids,” Presented by R. P. Swatloski before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CELL 046.
533. J. H. Poplin, R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, “Cellulose-supported colorimetric sensors for mercury ion detection,” Presented by M. A. Klingshirn before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CELL 024.

534. R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Ionic Liquids Enabling Sustainable Technologies for New Advanced Materials," Presented by R. P. Swatloski before the Spring National AIChE Meeting (2004), New Orleans, LA. (Invited presentation)
535. R. D. Rogers, "Investigation of Ionic Liquids as Environmentally Benign Solvents," Presented by R. D. Rogers to the U. S. EPA National Center for Environmental Research EPA and NSF Technology for a Sustainable Environment (TSE) Grantees Meeting (2004), Arlington, VA. No Abstract.
536. R. D. Rogers, "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers before the Canada-US Joint Workshop on Innovative Chemistry in Clean Media (2004), Montreal, Quebec, Canada. (Invited presentation)
537. R. D. Rogers, "Toxicology of Nanoparticles and Analysis and Modeling of Nanoparticles Solution Properties for Physico-Chemical Characterization and Risk Assessment," Presented by R. D. Rogers before the Center for Nanoscale Materials Workshop for EPSCoR Faculty and Students (2004), Argonne, IL. (Invited presentation)
538. R. D. Rogers, "Prospective on the 2005 Conference 'Taking Measure of Green Progress: Opportunities to Meet Global Challenges,'" Presented by R. D. Rogers before the 8th Annual Green Chemistry and Engineering Conference: 'Green Chemistry and Engineering: The Business Imperative for Sustainability' (2004), Washington, DC, no abstract.
539. R. D. Rogers, S. T. Griffin, G. A. Broker, W. M. Reichert, J. H. Poplin, R. P. Swatloski, and J. D. Holbrey, "Supramolecular Chemistry in Alternative Solvents: Are Nonvolatile Ionic Liquids Effective Crystallization Solvents or Fodder for Co-Crystals?," Presented by R. D. Rogers before the American Crystallographic Association Annual Meeting (2004), Chicago, IL, Abstract TR.01.18. (Invited Presentation)
540. M. A. Klingshirn, R. D. Rogers, and K. H. Shaughnessy "Palladium-Catalyzed Hydroesterification of Styrene in the Presence of Ionic Liquids," Presented by M. Klingshirn before the ACS-PRF Summer School on Green Chemistry (2004), Pittsburgh, PA, Program Booklet 1-12.
541. M. B. Turner, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Entrapment of Biologically Active Macromolecules in Cellulosic Films Reconstituted from Ionic Liquids," Presented by M. Turner before the ACS-PRF Summer School on Green Chemistry (2004), Pittsburgh, PA, Program Booklet 1-20.
542. J. S. Moulthrop, R. P. Swatloski, R. D. Rogers, and G. Moyna "High-resolution ^{13}C NMR studies of amylose and cellulose oligomers in 1-butyl-3-methylimidazolium chloride solutions," Presented by J. S. Moulthrop before the 228th ACS National Meeting (2004), Philadelphia, PA, Abstract CARB 063.
543. R. D. Rogers, W. M. Reichert, and J. D. Holbrey "Ionic Liquids and Hydrogen Bonding: Understanding the Solvent Characteristics of Ionic Liquids through Study of Crystal Structures and Solvation Parameters," Presented by R. D. Rogers before the 228th ACS National Meeting (2004), Philadelphia, PA, Abstract ORGN 542. (Invited symposium presentation)
544. R. P. Planalp, N. Ye, G. Park, A. M. Przyborowska, P. E. Sloan, T. Clifford, C. B. Bauer, R. D. Rogers, R. Ma. S. V. Torti, and M. W. Brechbiel "Nickel(II), copper(II) and zinc(II) binding properties and cytotoxicity of tripodal, hexadentate tris(ethylenediamine)–analogue chelators," Presented by R. P. Planalp before the 228th ACS National Meeting (2004), Philadelphia, PA, Abstract INOR 424.
545. R. D. Rogers, W. M. Reichert, J. D. Holbrey, and G. A. Broker "Approaches to Crystallization: Techniques for Controlling the Formation of Materials and their Application to Industry," Presented by R. D. Rogers before the Crystallisation and Particle Science Workshop – Bridging the Gap between Research and Industrial Application (2004), Singapore, Abstract. (Invited Workshop Lecture)
546. S. V. Volkov and R. D. Rogers, ""Green" Route of Chemistry Development. Problems and Perspectives," Presented by S. Volkov before the XVIth Ukrainian Conference on Inorganic Chemistry (2004), Uzhhorod, Ukraine.
547. R. D. Rogers, "Supramolecular Chemistry in Alternative Solvents: Are Nonvolatile Ionic Liquids Effective Crystallization Solvents or Fodder for Co-Crystals?," Presented by R. D. Rogers before the Gordon Research Conference on Organic Structures & Properties (2004), Les Diablerets, Switzerland (Invited Presentation).
548. W. Wang, G. Shen, R. P. Swatloski, R. Farag, R. M. Broughton, Jr., and R. D. Rogers, "Cellulose Fibers Extruded from Ionic Liquids," Presented by R. M. Broughton, Jr. before the International Nonwovens Technical Conference (2004), Toronto Canada.
549. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers before the Proctor & Gamble Ionic Liquids Symposium (2004), Proctor & Gamble, Cincinnati, OH on 11/10/04. (Invited Workshop Lecture)
550. R. D. Rogers, "A New Class of Solvents for TRU Dissolution and Separation: Ionic Liquids," Presented by R. D. Rogers before the DOE Environmental Management Science Program High Level Waste Workshop (2005), SREL Conference Center, Aiken, SC on 1/29/05; no abstract, Program Booklet.
551. H. Luo, S. Dai, P. V. Bonnesen, A. C. Buchanan, III, R. D. Rogers, J. D. Holbrey, and C. L. Hussey, "Novel Fission-Product Separations Based on Room Temperature Ionic Liquids," Presented by S. Dai before the DOE Environmental Management Science Program High Level Waste Workshop (2005), SREL Conference Center, Aiken, SC on 1/29/05; no abstract, Program Booklet.
552. W. Wang, G. Shen, R. P. Swatloski, R. Farag, R. M. Broughton, Jr., and R. D. Rogers "A New Solvent for Cellulose Extrusion," Presented by R. M. Broughton, Jr. before the Cotton Beltwide Conferences (2005), New Orleans, LA.
553. R. D. Rogers, "Solvent Strength of Ionic Liquids," Presented by R. D. Rogers before the Council for Chemical Research 10th NIChE Conference: Ionic Liquids – Background, State-of-the-Art, and Applications (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)

554. R. D. Rogers, "Liquid-Liquid Separations with Ionic Liquids," Presented by R. D. Rogers before the Council for Chemical Research 10th NIChE Conference: Ionic Liquids – Background, State-of-the-Art, and Applications (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
555. R. D. Rogers, "Polymer Chemistry of Ionic Liquids," Presented by R. D. Rogers before the Council for Chemical Research 10th NIChE Conference: Ionic Liquids – Background, State-of-the-Art, and Applications (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
556. R. D. Rogers, "Advanced Materials Utilizing ILs as Enabling Solvents," Presented by R. D. Rogers before the Council for Chemical Research 10th NIChE Conference: *Ionic Liquids – Background, State-of-the-Art, and Applications* (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
557. R. P. Planalp, M. Childers, D. P. Kennedy, A. Lindell, G. Broker, R. D. Rogers, M. W. Brechbiel, R. Ma, F. M. Torti, and S. V. Torti, "Polyamino-heterocycle chelating agents with cytotoxic activity in tumor cells: Structure-activity relationship of imidazole, thiazole and pyridyl donor groups," Presented by R. P. Planalp before the 229th ACS National Meeting (2005), San Diego, CA, Abstract MEDI-501.
558. R. D. Rogers, "DE-FG02-96ER14673 - Alternative (Potentially Green) Separations Media: Aqueous Biphasic and Related Systems - Extending the Frontier," Presented by R. D. Rogers before the Department of Energy Basic Energy Sciences Separations Program, Heavy Elements Program Contractor's Meeting (2005), Rockville, MD; Abstract O6-1.
559. C. Mobley, A. Ramasetty, A. Haque, J. H. Poplin, D. T. Daly, and R. D. Rogers, "Affordable Bio-polymer Matrix Composites for Lightweight Automotive Components," Presented by A. Haque at the Sixth Annual Global Automotive Conference (2005), Western Kentucky University, Bowling Green, KY.
560. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers at the NSF Joint China-USA Workshop *Determining the Grand Challenges of Green Chemistry Development and Implementation* (2005), May 27-31, 2005, Beijing, China; Abstract Book (Co-Organizer).
561. R. D. Rogers, V. A. Cocalia, K. E. Gutowski, N. J. Bridges, J. D. Holbrey, "Separations Using Ionic Liquids: The Challenges of Multiple Mechanisms," Presented by R. D. Rogers at the 1st International Congress on Ionic Liquids (COIL) (2005), Salzburg, Austria; Abstract Book p 28. (Plenary Lecture).
562. J. G. Huddleston, J. Chen, S. K. Spear, R. D. Rogers, "The Role of PEG-based Solvents in Green Chemistry," Presented by J. G. Huddleston before the International Conference on Biopartitioning and Purification, BPP 2005 (2005), The Netherlands, Abstract Book p 7.
563. R. P. Planalp, D. P. Kennedy, M. L. Childers, M. W. Brechbiel, R. Ma, G. A. Broker, R. D. Rogers, F. M. Torti, and S. V. Torti, "Polyamino-heterocycle chelating agents with cytotoxic activity in tumor cells: structure-activity relationship of metal-binding geometry and metal donor groups," Presented by R. P. Planalp before the First Congress of the International BioIron Society (2005), Prague, Czech Republic, Paper P281.
564. R. D. Rogers, D. T. Daly, J. D. Holbrey, J. G. Huddleston, J. H. Poplin, S. K. Spear, R. P. Swatloski, M. B. Turner, and R. L. Wells, "A Platform Strategy Using Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials," Presented by R. D. Rogers before the joint meeting of the 2nd International Conference on Green and Sustainable Chemistry and the 9th Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 1. (Presidential Green Chemistry Challenge Award Presentation)
565. S. T. Griffin, M. Dilip, S. K. Spear, and R. D. Rogers, "Comparison of the Effect of Temperature in Aqueous Biphasic Systems (ABS) and Aqueous Biphasic Extraction Chromatographic Resins (ABEC®)," Presented by M. Dilip before the joint meeting of the 2nd International Conference on Green and Sustainable Chemistry and the 9th Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 81.
566. M. Dilip, S. T. Griffin, S. K. Spear, and R. D. Rogers, "Towards Greener Environmental Remediation: Use of Aqueous Biphasic Extraction Chromatographic Resins (ABEC®) for Perchlorate Removal," Presented by M. Dilip before the joint meeting of the 2nd International Conference on Green and Sustainable Chemistry and the 9th Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 82.
567. R. P. Swatloski, J. H. Poplin, D. T. Daly, A. Haque, C. Mobley, and R. D. Rogers, "Functional Bio-polymer Matrix Composites via Ionic Liquid Solution Routes," Presented by R. P. Swatloski before the joint meeting of the 2nd International Conference on Green and Sustainable Chemistry and the 9th Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 264.
568. V. A. Cocalia, M. P. Jensen, J. D. Holbrey, and R. D. Rogers, "The Challenges of Using Ionic Liquids as a New Media for Metal Ion Separations," Presented by V. A. Cocalia before the 24th Rare Earth Research Conference (2005), Keystone, CO; Abstract D-5, p 27.
569. D. A. Dixon, K. Gutowski, R. Rogers, S. Li, N. Shah, P. Keenum, W. deJong, T. L. Windus, and A. Felmy, "Computational Approaches to Lanthanide and Actinide Chemistry for Environmental Remediation," Presented by D. A. Dixon before the 24th Rare Earth Research Conference (2005), Keystone, CO; Abstract F-5, p 37.
570. N. J. Bridges, K. E. Gutowski, S. K. Spear, and R. D. Rogers, "Partitioning Studies of Pertechnetate Salts in Aqueous Biphasic Systems Formed by Contact of Ionic Liquids Solutions with Solutions of Kosmotropic Salts," Presented by N. J. Bridges before the 24th Rare Earth Research Conference (2005), Keystone, CO; Abstract P3-01, p 118.
571. A. Haque, D. T. Daly, R. D. Rogers, C. Mobley, and R. P. Swatloski, "Effects of MAPP as Coupling Agent on the Performance of Cellulose/Polypropylene Laminated Composites," Presented by A. Haque at the 3rd International Conference on Eco-

Composites (2005), Royal Institute of Technology, Stockholm, Sweden.

572. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers at the Japan IL workshop July 15, 2005; Abstract. (Invited Presentation).
573. R. D. Rogers and V. Cocalia, "Separations Using Ionic Liquids: Multiple Uses/Multiple Mechanisms," Presented by R. D. Rogers at the 7th International Symposium on Molten Salts Chemistry & Technology (2005), Toulouse, France; Abstract - Proceedings Vol. II, p 1003.
574. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers at the 7th International Symposium on Molten Salts Chemistry & Technology (2005), Toulouse, France; Abstract - Proceedings Vol. I, p 59. (Invited Plenary Presentation)
575. R. D. Rogers, J. D. Holbrey, and S. K. Spear, "Green Chemistry and Applications of Ionic Liquids: Enabling Sustainable Technologies for Advanced New Materials," Presented by R. D. Rogers before the European Congress on Advanced Materials and Processes, EUROMAT 2005 (2005), Prague, Czech Republic; Abstract Symposium D52. (Keynote Lecture)
576. V. A. Cocalia, J. D. Holbrey, K. E. Gutowski, N. J. Bridges, and R. D. Rogers, "Separations of Metal Ions Using Ionic Liquids: The Challenges of Multiple Mechanisms," Presented by R. D. Rogers before the International Solvent Extraction Conference "Solvent Extraction for Sustainable Development" ISEC 2005 (2005), Beijing, China; Abstract A111. (Keynote Lecture)
577. R. D. Rogers, "Applications of Green Chemistry in a Recycling Economy," Presented by R. D. Rogers before the 7th World Congress on Recovery, Recycling and Re-integration (2005), Beijing, China; Abstract Book Page II. (Plenary Lecture)
578. R. D. Rogers, N. J. Bridges, J. G. Huddleston, K. E. Gutowski, and S. K. Spear, "Salt/Salt Aqueous Biphasic Systems Formed by Solutions of Ionic Liquids and Kosmotropic Salts," Presented by R. D. Rogers before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 37. (Invited Presentation).
579. N. J. Bridges, J. G. Huddleston, S. K. Spear, and R. D. Rogers, "Utilization of Salt/Salt Aqueous Biphasic Systems Formed by Solutions of Ionic Liquids and Kosmotropic Salts for the Extraction of Fission Products," Presented by N. J. Bridges before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 15.
580. V. A. Cocalia, S. K. Spear, and R. D. Rogers, "$^{99}TcO_4^-$ Extraction from Aqueous Media by XAD-7 Resin Coated with CYPHOS IL101 and CYPHOS IL104 Ionic Liquids," Presented by V. A. Cocalia before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 16.
581. K. E. Gutowski, R. D. Rogers, and D. A. Dixon, "DFT Studies of the Complexation Behavior of Phosphates and Silicates with Actinide and Fission Product Cations," Presented by K. E. Gutowski before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 20.
582. S. T. Griffin, S. K. Spear, W. M. Reichert, and R. D. Rogers, "Liquid-Liquid Extractions Using Renewable Plant-Based Soybean Oil as Alternatives to Organic Solvents," Presented by S. T. Griffin before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 31.
583. J. H. Davis, Jr., R. D. Rogers, S. Griffin, M. Tickell, and P. Fox, "Task-Specific Ionic Liquids (TSIL) for Separations Applications," Presented J. H. Davis, Jr. before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 39.
584. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers before the 6th Inha ERC International Symposium "Application of Ionic Liquids in Chemical Engineering" (2005), Incheon, Korea, Abstract book p 6. (Invited Keynote Speaker).
585. R. D. Rogers, "Green (or Not) Ionic Liquids to Access Biorenewable Polymer Materials," Presented by R. D. Rogers before the Joint US-Japan Workshop on Sustainable Chemical Synthesis (2005), Honolulu, HI (Invited Speaker).
586. R. D. Rogers, C. Mobely, R. P. Swatloski, J. H. Poplin, D. T. Daly, and A. Haque, "Cellulose-based composites prepared from ionic liquids: Affordable materials for industrial applications," Presented by R. D. Rogers before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract AGRO 391. (Invited Presentation)
587. R. M. Broughton, G. Shen, J. Lee, U. Cho, R. Swatloski, and R. D. Rogers, "Extrusion of composite fibers and films," Presented by R. M. Broughton before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract ENVR 883. (Invited Presentation)
588. R. D. Rogers, R. P. Swatloski, S. K. Spear, and D. T. Daly, "Designer ionic liquids enabling sustainable technologies," Presented by R. D. Rogers before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract ENVR 894. (Invited Presentation)
589. R. D. Rogers, R. P. Swatloski, J. H. Poplin, V. A. Cocalia, and N. J. Bridges, "Cellulosic materials containing lanthanide complexes: ionic liquid routes to new materials," Presented by R. D. Rogers before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract INOR 803. (Invited Presentation)
590. A. Wierzbicki, J. Davis, R. D. Rogers, E. A. Salter, M. Reichert, S. Griffin, E. A. Cioffi, P. A. Fox, B. Wicker, A. Smith, M. Tickell, "Boron, but not boring: Boronium ions and their use in ionic liquids," Presented by A. Wierzbicki before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract ENVI 769.
591. R. D. Rogers, M. Smiglak, D. W. Drab, W. M. Reichert, K. E. Gutowski, T. Wilson, A Vincek, D. Zhang, H. Fang, K. Kirischenko, S. Singh, and A. R. Katritzky, "Energetic Ionic Liquids: Fundamental Studies Relating Target Structures and Key Physical Properties," Presented by R. D. Rogers before Air Force Office of Scientific Research Ionic Liquids Research Workshop (2006), Tuscaloosa, AL.

592. A Vincek, D. Zhang, H. Fang, K. Kirischenko, S. Singh, A. R. Katritzky, J. D. Holbrey, , M. Smiglak, W. M. Reichert, S. K. Spear, and R. D. Rogers, "In search of Energetic Ionic Liquids," Presented by K. Kirischenko before Air Force Office of Scientific Research Ionic Liquids Research Workshop (2006), Tuscaloosa, AL.
593. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers, before the Chemical Engineering Students Society VII International Chemical Engineering Congress (2006), Monterrey, Mexico. (Invited Plenary Presentation)
594. C. C. Hines, W. M. Reichert, S. T. Griffin, T. Morgan, and R. D. Rogers, "Ionic liquids as solvents for metal-ligand complexation," Presented by C. C. Hines before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
595. M. Dilip, N. J. Bridges, and R. D. Rogers, "Influence of Temperature on Phase Diagrams and Partitioning of Alcohols in Salt/Salt ABS," Presented by M. Dilip before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
596. J. H. Poplin, R. Swatloski, J. Holbrey, S. Spear, and R. Rogers, "Development of Cellulose Based Dip-and-Read Test Strips for Hg^{2+} Detection," Presented by J. H. Poplin before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
597. M. Smiglak, D. M. Drab, T. Wilson, W. M. Reichert, R. D. Rogers, H. Yang, D. Zhang, K. Kirichenko, and A. R. Katritzky, "Strategies Toward the Design of Energetic Ionic Liquids: Nitro- and Nitrile Substituted Imidazolium Salts," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
598. M. Smiglak, D. M. Drab, T. Wilson, W. M. Reichert, R. D. Rogers, H. Yang, D. Zhang, K. Kirichenko, and A. R. Katritzky, "Strategies Toward the Design of Energetic Ionic Liquids: Azolate-Based Salts," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
599. M. Smiglak, W. M. Reichert, S. T. Griffin, J. D. Holbrey, R. D. Rogers, K. Kirichenko, D. Zhang, and A. R. Katritzky, "Ionic liquids via reaction of the zwitterion 1,3-dimethylimidazolium-2-carboxylate with protic acids," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
600. M. Smiglak, W. M. Reichert, J. D. Holbrey, L. Sun, J. S. Thrasher, R. D. Rogers, and J. S. Wilkes, "Combustible ionic liquids by design: Destroying another ionic liquid myth," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
601. K. E. Gutowski, J. D. Holbrey, D. A. Dixon, and R. D. Rogers, "Prediction of the Formation and Stabilities of Energetic Salts and Ionic Liquids Based on Ab Initio Electronic Structure Calculations," Presented by K. E. Gutowski before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
602. N. J. Bridges and R. D. Rogers, "Fundamental Studies of Chaotropic Salts (e.g., Ionic Liquids) and Kosmotropic Salts in the Formation of Salt/Salt Aqueous Biphasic Systems," Presented by N. J. Bridges before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
603. V. A. Cocalia, S. T. Griffin, and R. D. Rogers, "Ionic Liquids in Actinide Chemistry," Presented by V. A. Cocalia before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
604. W. L. Hough, T. Wilson, M. Smiglak, J. Pernak, S. K. Spear, J. H. Davis, Jr., and R. D. Rogers, "Ionic Liquids: The Next Generation of Sweeteners," Presented by W. L. Hough before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
605. R. D. Rogers, "ILs as Technical Materials, Literature, and Choice," Presented before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL. (Organizer).
606. R. D. Rogers, "Separations and Energetic Materials," Presented before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL. (Organizer).
607. M. Smiglak, W. M. Reichert, J. D. Holbrey, J. S. Wilkes, L. Sun, J. S. Thrasher, and R. D. Rogers, "Combustible ionic liquids by design: Destroying another ionic liquid myth," Presented by M. Smiglak before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 103.
608. M. Smiglak, W. M. Reichert, S. T. Griffin, J. D. Holbrey, R. D. Rogers**,** K. Kirichenko, D. Zhang, and A. R. Katritzky, "Ionic liquids via reaction of the zwitterion 1,3-dimethylimidazolium-2-carboxylate with protic acids," Presented by M. Smiglak before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 104.
609. C. C. Hines, W. M. Reichert, S. T. Griffin, and R. D. Rogers**,** "Ionic liquid mediated metal-ligand complexation," Presented by C. C. Hines before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 105.
610. W. Hough, T. Wilson, M. Smiglak, J. Pernak, S. K. Spear, J. H. Davis Jr., and R. D. Rogers**,** "Ionic liquids: The next generation of sweeteners," Presented by W. Hough before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 106.
611. R. C. Remsing, D. A. Fort, R. P. Swatloski, P. Moyna, R. D. Rogers**,** and G. Moyna, "Use of ionic liquids for the processing and analysis of lignocellulosic materials," Presented by G. Moyna before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 151.
612. R. P. Swatloski, R. M. Broughton, G. Moyna, D. T. Daly, S. K. Spear, and R. D**.** Rogers**,** "How understanding the ionic liquid/cellulose dissolution mechanism can guide the generation of advanced cellulose-based materials," Presented by R. P. Swatloski before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 204.

613. J. H. Davis Jr., A. Smith, M. Tickell, R. D. Rogers, W. M. Reichert, S. T. Griffin, A. Wierzbicki, and E. A. Salter, "Boronium ion based ionic liquids: Surprises abound," Presented by J. H. Davis, Jr. before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 220.
614. R. C. Remsing, D. A. Fort, R. P. Swatloski, P. Moyna, R. D. Rogers**,** and G. Moyna, "Green solvents gone bananas: Use of ionic liquids for the processing and analysis of biomass," Presented by G. Moyna before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 244.
615. J. H. Davis Jr., M. Tickell, R. D. Rogers**,** W. M. Reichert, and S. T. Griffin, "New task-specific ionic liquids incorporating amine groups and their use for reactive capture," Presented by J. H. Davis, Jr. before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 280.
616. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers before the 2nd Australian Symposium on Ionic Liquids (2006), Melbourne, Australia, Abstract Book. (Invited Plenary Speaker).
617. R. D. Rogers and W. M. Reichert, "Approaches to crystallization from ionic liquids: complex solvents-complex results – or – A strategy for controlled formation of new supramolecular architectures?" Presented by R. D. Rogers before the 89th Canadian Chemical Congress (2006), Halifax, Nova Scotia, Canada, Abstract 0338. (Invited Symposium Presentation)
618. J. Fortunak, F. Ohwoavworhua, O. Kunle, R. P. Swatloski, and R. D. Rogers, "Valuable products from Nigerian elephant sawgrass," Presented by J. Fortunak before the 10th Annual Green Chemistry and Engineering Conference (2006), Washington, D.C.
619. D. G. Whitten, L. V. Interrante, P. V. Kamat, and R. D. Rogers, "The Peer Review Process," Panel Presentation at the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50th Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
620. R. D. Rogers, L. V. Interrante, P. V. Kamat, and D. G. Whitten, "Getting Involved in the Scientific Publishing Process; What Does it Take?," Panel Presentation (Led by R. D. Rogers) at the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50th Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
621. L. V. Interrante, P. V. Kamat, R. D. Rogers, and D. G. Whitten, "What Constitutes Publishable Science," Panel Presentation at the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50th Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
622. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Crystallization Solvents: Complex Solvents-Complex Results – or – A Strategy for Controlled Formation of New Supramolecular Architectures?," Presented by R. D. Rogers before the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50th Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
623. D. G. Whitten, L. V. Interrante, P. V. Kamat, and R. D. Rogers, "The Peer Review Process," Panel Presentation at the 25th Chinese Chemical Society Congress (2006), Changchun, China, Abstract 20-I-002. (Invited Presentation)
624. R. D. Rogers, L. V. Interrante, P. V. Kamat, and D. G. Whitten, "Getting Involved in the Scientific Publishing Process; What Does it Take?" Panel Presentation (Lead by R. D. Rogers) at the Panel Presentation at the 25th Chinese Chemical Society Congress (2006), Changchun, China, Abstract 20-I-001. (Invited Presentation)
625. L. V. Interrante, P. V. Kamat, R. D. Rogers, and D. G. Whitten, "What Constitutes Publishable Science," Panel Presentation at the Panel Presentation at the 25th Chinese Chemical Society Congress (2006), Changchun, China, Abstract 20-I-003. (Invited Presentation)
626. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Crystallization Solvents: Complex Solvents-Complex Results – or – A Strategy for Controlled Formation of New Supramolecular Architectures?," Presented by R. D. Rogers before the 25th Chinese Chemical Society Congress (2006), Changchun, China, Abstract 01-I-004. (Invited Presentation)
627. A. Haque, C. Mobeley, D. T. Daly, R. D. Rogers, R. P. Swatloski, and A. Ramasetty, "Effects of MAPP as Coupling Agent on the performance of Regenerated Cellulose Film Reinforced Polypropylene Composites," Presented by A. Haque before the American Society for Composites 21st Annual Technical Conference (2006), Dearborn, MI.
628. J. Fortunak, F. Ohwoavworhua, O. Kunle, and R. D. Rogers, "Valuable products from Nigerian elephant sawgrass," Presented by J. Fortunak before the 10th Annual Green Chemistry & Engineering Conference 'Designing for a Sustainable Future' (2006), Washington, DC, Abstract 145.
629. C. C. Hines, M. Smiglak, W. M. Reichert, S. T. Griffin, and R. D. Rogers, "Crystal engineering utilizing ionic liquids," Presented by C. C. Hines before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 552.
630. R. P. Planalp, G. Lu, D. P. Kennedy, M. W. Brechbiel, R. D. Rogers, R. Ma, F. M. Torti, and S. V. Torti, "The metal-complexation properties of cytotoxic tripodal hexadentate chelators: Effects of heterocycle donor arms on Fe(II) chelation and fibroblast IC50 value," Presented by R. P. Planalp before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract MEDI 260.
631. M. Smiglak, C. C. Hines, T. Wilson, W. M. Reichert, S. T. Griffin, R. D. Rogers, K. Kirichenko, S. Singh, and A. Vincek, "Ionic liquids based on azole anions," Presented by M. Smiglak before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 555.

632. M. Smiglak, D. M. Drab., C. C. Hines, W. M. Reichert, R. D. Rogers, K. Kirichenko, and A. Vincek, "Halide free synthesis of energetic azolium azolate salts," Presented by M. Smiglak before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 522.
633. W. M. Reichert, J. D. Holbrey, K. B. Vigour, T. D. Morgan, G. A. Broker, S. T. Griffin, C. C. Hines, and R. D. Rogers, "Stepping stones and stumbling blocks for the utilization of ionic liquids as crystallization solvents," Presented by W. M. Reichert before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 098.
634. N. J. Bridges, and R. D. Rogers "Investigation into ion-pairing of 1-butyl-3-methylimidazolium chloride in aqueous media," Presented by N. J. Bridges before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 059.
635. N. J. Bridges, M. Smiglak, and R.D. Rogers "Synthesis of hydrogen carbonate ionic liquids through the Krapcho reaction," Presented by N. J. Bridges before the 232nd ACS National Meeting (2006), San Francisco, CA, Abstract I&EC 082.
636. R. D. Rogers and W. M. Reichert, "Approaches To Crystallization From Ionic Liquids: Complex Solvents-Complex Results – Or – A Strategy For Controlled Formation Of New Supramolecular Architectures," Presented by R. D. Rogers before the EUCHEM Conferences on Molten Salts and Ionic Liquids (2006), Hammamet, Tunisia, Abstract Book p 82.
637. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers before XVI Congresso Brasileiro de Engenharia Química - COBEQ (2006), Santos, Brazil, Abstract Book p 12. (Invited Plenary Presentation)
638. R. D. Rogers, V. A. Cocalia, L. Nunez "Crystallization of Actinide Complexes from Ionic Liquids", Presented by R. D. Rogers before the 15th International Symposium on Molten Salts part of the 2006 Joint International Meeting (210th Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 1989.
639. C. C. Hines, W. M. Reichert, S. T. Griffin, and R. D. Rogers, "Crystallization of new and interesting crystal structures in ionic liquids: Complex systems with complex results," Presented by C. C. Hines before the 15th International Symposium on Molten Salts part of the 2006 Joint International Meeting (210th Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 2021.
640. M. Smiglak, M. Dilip, N. J. Bridges, W. M. Reichert, and R. D. Rogers, "Formation of ionic liquid eutectic mixtures as a tool for melting point depression." Poster presented by M. Smiglak before the 15th International Symposium on Molten Salts part of the 2006 Joint International Meeting (210th Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 70 and 2022.
641. J. H. Poplin, D. Rudkevich, R. P. Swatloski, and R. D. Rogers, "Development of Liquid Membranes for NO_x Gas Detection and Storage Utilizing Calix[4]Arenes in Ionic Liquids," Presented by J. H. Poplin before the 15th International Symposium on Molten Salts part of the 2006 Joint International Meeting (210th Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 83.
642. R. P. Swatloski, R. P. Broughton, N. Sun, M. Maxim, D. T. Daly, S. K. Spear, and R. D. Rogers, "A Look at Ionic Liquid Generated Cellulose and Modified Cellulose Fibers," Presented by R. P. Swatloski before the 15th International Symposium on Molten Salts part of the 2006 Joint International Meeting (210th Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 1970.
643. R. D. Rogers, "What are Ionic Liquids," Presented by R. D. Rogers before the Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications* (2006), Orlando, FL, Abstract Book. (Co-Chair of the meeting)
644. R. D. Rogers, "Have You Considered the Unique Potential of Ionic Liquids as Crystallization Solvents?" Presented by R. D. Rogers before the ACS ProSpectives Series: *Crystallization Process Development: Case Studies & Research* (2007), Boston, MA.
645. R.D. Rogers and M. A. Abraham, "A 'Green' Industrial Revolution is in Our Future," Presented by R. D. Rogers and M. A. Abraham before the 233rd ACS National Meeting (2007), Chicago, IL, Abstract I&EC 046. (Invited Presentation)
646. J. H. Poplin, D. M. Rudkevich, and R. D. Rogers, "New Platforms for Immobilization of Calixarenes for Gas-Sensing and Trapping," Presented by R. D. Rogers before the 233rd ACS National Meeting (2007), Chicago, IL, Abstract I&EC 042. (Invited Presentation)
647. R.D. Rogers, N. J. Bridges, V. A. Cocalia, and K. E. Gutowski, "Separations, coordination, and solvation of f-elements in ionic liquids," Presented by R. D. Rogers before the 233rd ACS National Meeting (2007), Chicago, IL, Abstract NUCL 066. (Invited Presentation)
648. Sun, N.; Swatloski, R. P.; Maxim, M. L.; Broughton, Jr., R. M.; Spear, S. K.; Daly, D. T.; Haque, A.; Harland, A. G.; Rogers, R. D. "Cellulose Fibers Prepared from Direct Dissolution of Cellulose in Ionic Liquids," 4th International Conference of Textile Research Division National Research Centre, Cairo, Egypt; Textile Processing : State of the Art & Future Developments (2007), Abstract Page 16. Invited presentation, not presented due to illness.
649. R. D. Rogers, "The Evolution of Ionic Liquids: From Solvents to Materials to ??? (and the New Business Opportunities that Follow)," Presented by R. D. Rogers before the Queen's University Ionic Liquid Laboratory 'Ionic Liquid Week' (2007), Belfast, Northern Ireland. (Invited Presentation)
650. R. D. Rogers, D. M. Drab, and M. Smiglak, "Ionic Liquids as a Unique and Versitile Platform for the Synthesis and Delivery of Energetic Materials," Presented by R. D. Rogers before the 54th Joint Army-Navy-NASA_Air Force (JANNAF) Propulsion Meeting (2007), Denver, CO, Program Booklet page 62.
651. R. D. Rogers "A Green Industrial Revolution is in Our Future," Presented by R. D. Rogers before the Licensing Executives Society Spring Meeting (2007), Atlanta, GA.

652. R. D. Rogers, "A 'Green' Industrial Revolution is in Our Future: Are Ionic Liquids Pointing the Way?," Presented by R. D. Rogers before the 11th Annual Green Chemistry and Engineering Conference: "From Small Steps to Giant Leaps – Breakthrough Innovations for Sustainability" (2007), Washington, DC; Abstract 15. (Invited Plenary Presentation)
653. R. D. Rogers, "Task-Specific Ionic Liquids: What Does this Term Really Mean," Presented by R. D. Rogers before the International Symposium on Task-Specific Ionic Liquids (2007), Keio University, Yokohama, Japan, Abstract p 2. (Invited Presentation)
654. S. Schneider, T. Hawkins, M. Rosander, R. Rogers, D. Drab, M. Smiglak, and A. Vij "From Halides to Azides – Novel Ionic Liquid Azides as Energetic Materials," Presented by S. Schneider before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 2P03-43.
655. C. Rijksen, M. Rahman, Y. Qin, N. Sun, M. Maxim, and R. D. Rogers, "Biomass: Dissolution, Separation, and Applications Enabled by Ionic Liquids," Presented by C. Rijksen before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 1P04-055.
656. M. Smiglak, C. C. Hines, N. J. Bridges, D. M. Drab, and R. D. Rogers, "New Precursors for the Halide Free Synthesis of Ionic Liquids Utilizing the Chemistry of Dimethylcarbonate," Presented by M. Smiglak before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 1P03-047.
657. M. Smiglak, C. C. Hines, D. M. Drab, and R. D. Rogers "Novel Energetic Ionic Liquid Materials Composed Solely of C, H, N, and O," Presented by M. Smiglak before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 2P06-066.
658. A. Metlen, C. Rijksen, W. L. Hough, M. Smiglak, H. Rodríguez, R. P. Swatloski, S. K. Spear, D. T. Daly, J. Pernak, J. E. Grisel, R. D. Carliss, M. D. Soutullo, J. H. Davis, Jr., and R. D. Rogers, "Ionic Liquids as Active Pharmaceutical Ingredients Exemplified by Lidocaine Docusate," Presented by A. Metlen before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 1P09-094.
659. D. R. MacFarlane, P. M. Dean, J. Turanjanin, J. L. Scott, W. L. Hough, M. Smiglak, H. Rodríguez, R. P. Swatloski, S. K. Spear, D. T. Daly, J. Pernak, J. E. Grisel, R. D. Carliss, M. D. Soutullo, J. H. Davis, Jr., and R. D. Rogers, "'Drug'" Ionic Liquids - A New Phase for the Pharmaceutical World," Presented by D. R. MacFarlane before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract PL9.
660. R. D. Rogers, M. Smiglak, W. L. Hough, A. Metlen, H. Rodríguez, R. P. Swatloski, S. K. Spear, D. T. Daly, J. Pernak, J. E. Grisel, R. D. Carliss, M. D. Soutullo, J. H. Davis, Jr., J. L. Scott, D. R. MacFarlane, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials to Pharmaceuticals: Energetic and API Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before the 2nd International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract LMA1. (Invited Lecture)
661. R. D. Rogers, "The Third Evolution of Ionic Liquids: Physical to Chemical to Biological Properties," Presented by R. D. Rogers before the International Symposium on Ionic Liquids and Life Sciences (2007), Yokohama, Japan. (Invited Keynote Lecture)
662. R. D. Rogers, M. Rahman, N. Sun, M. L. Maxim, G. Moyna, and P. Moyna, "Utilizing Ionic Liquids for Access to and Modification of Bio-renewable Polymers," Presented by A. Metlen (R. Rogers was delayed by air travel difficulties) before Europacat VIII (2007), Turku, Finland, Abstract K12-2. (Invited (Rogers) Keynote Address)
663. R. D. Rogers, "What are Ionic Liquids (ILs)?," Presented by R. D. Rogers before the Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications* (2007), Prague, Czech Republic, Abstract Book. (Invited Talk and Chair of the meeting)
664. R. D. Rogers, "Approaches to Crystallization From Ionic Liquids: Complex Solvents-Complex Results – or – A Strategy for Controlled Formation of New Supramolecular Architectures?" Presented before the 5th Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of *Crystal Growth & Design* (2007), Fuzhou, China, Abstract PL-03. (Invite Plenary Presentation)
665. R. D. Rogers, "Getting Involved in the Scientific Publishing Process with *Crystal Growth & Design*: What Does It Take?" Presented before the 5th Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of *Crystal Growth & Design* (2007), Fuzhou, China, Abstract PL-10. (Invite Plenary Presentation)
666. R. D. Rogers, "Separations, coordination, and solvation of f-elements in ionic liquids," Presented by R. D. Rogers before the 59th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (2008), New Orleans, LA, Abstract 300-3. (Invited Symposium Presentation)
667. R. D. Rogers, "Green Chemistry and the New Transformational Platform Technologies Needed to Meet the Goals of Sustainability," Presented by R. D. Rogers before the Workshop in Green Chemistry Production of Essential Medicines in Developing Countries (2008), Abuja, Nigeria, No Abstract. (Invited Presentation)
668. R. D. Rogers, "Cracking Hydrocarbons: Direct Dissolution and Processing of Cellulosic and Related Biomass with Ionic Liquids Leading to New Materials," Presented by R. D. Rogers before the Workshop in Green Chemistry Production of Essential Medicines in Developing Countries (2008), Abuja, Nigeria, No Abstract. (Invited Presentation.
669. R. D. Rogers, M. Rahman, Y. Qin, N. Sun, M. L. Maxim, S. K. Spear, S. K. Mroczynski, and D. T. Daly, "New or Enhanced Materials from Biomass Utilizing the Unique Property Sets of Ionic Liquids," Presented by R. D. Rogers before the Materials Research Society Spring Meeting (2008), San Francisco, CA, Abstract Q1.1. (Invited Presentation)
670. N. Sun, R. P. Swatloski, M. L. Maxim, M. Rahman, A. G. Harland, A. Haque, S. K. Spear, D. T. Daly, and R. D. Rogers, "Cellulose Composite Fibers Prepared from Ionic Liquid-Based Solution," Presented by N. Sun before the 235th ACS meeting (2008), New Orleans, LA, Abstract CELL 285.

671. R. D. Rogers, M. Dilip, N. J. Bridges, M. Smiglak, D. B. Cordes, and K. Materna, "Utilization of hydrophilic ionic liquids in separations: Understanding and taming complexity," Presented by R. D. Rogers before the 235th ACS meeting (2008), New Orleans, LA, Abstract I&EC 078 (Invited Presentation).
672. R. D. Rogers, M. Rahman, Y. Qin, N. Sun, and M. L. Maxim, "Dissolution and processing of cellulosic and related biomass with ionic liquids: Fundamentals and applications," Presented by R. D. Rogers before the 235th ACS meeting (2008), New Orleans, LA, Abstract CELL 164 (Invited Presentation).
673. R. D. Rogers, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before Current Status of Ionic Liquid Technology in Chemical Engineering Symposium; part of the Spring National Meeting of the Korean Institute of Chemical Engineering (2008), Jeju Island, Korea, Abstract C-2 p 82. (Invited presentation)
674. R. D. Rogers, "Ionic Liquids Beyond Solvents: Unprecedented Opportunities to Fine Tune Physical, Chemical, and Biological Properties," Presented by R. D. Rogers before the Gordon Research Conference on Organic Structures & Properties: Molecular Design & Supramolecular Assemblies (2008), Lucca (Barga), Italy, no abstract. (Invited Presentation)
675. R. D. Rogers, "The Nature of Ionic Liquids: Are they Green Solvent Replacements or Tunable Crystallization Agents for Proteins?" Presented by R. D. Rogers before the 12th International Conference on the Crystallization of Biological Macromolecules (2008), Cancun, Mexico, Abstract Book Page 23. (Invited Keynote Lecture)
676. R. M. Frazier, W. L. Hough-Troutman, D. T. Daly, and Robin D. Rogers, "Microencapsulation of Active Nutraceutical Ingredients for Controlled Delivery," Presented by R. M. Frazier before Particles 2008, Particle Synthesis, Characterization, and Particle-Based Advanced Materials (2008), Orlando, Florida. Abstract B1.18.
677. R. D. Rogers, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook, Presented by R. D. Rogers before the 3rd Australian Symposium on Ionic Liquids (2008), Melbourne, Australia, Abstract Book. (Invited presentation)
678. M. Smiglak and R. D. Rogers, "Protocols for halide free synthesis of ionic liquids via hydrogen carbonate precursors: Design of Ionic Liquid Energetic Materials," Presented by M. Smiglak before the 3rd Australian Symposium on Ionic Liquids (2008), Melbourne, Australia, Abstract Book.
679. W. Hough-Troutman, M. Smiglak, J. Pernak, D. T. Daly, and R. D. Rogers, "Ionic Liquids for Application in the Food Industry," Presented by W. L. Hough-Troutman before the 3rd Australian Symposium on Ionic Liquids (2008), Melbourne, Australia, Abstract Book.
680. R. D. Rogers, "The Evolution of Ionic Liquids – From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before the Danish Chemical Society Kemisk Forenings Årsmøde (2008), Odense, Denmark, Abstract. (Invited Plenary Presentation)
681. R. D. Rogers, "Separation & Bioprocessing with Ionic Liquids," Presented by R. D. Rogers at the 1st Ionic Liquid Workshop "Ionic Liquid: The Future Solvent for Oil and Gas Industries" (2008), Glenmarie, Malaysia. (Invited Keynote Lecture)
682. R. D. Rogers, "Ionic Liquid Patents and Technology Development," Presented by R. D. Rogers at the 1st Ionic Liquid Workshop "Ionic Liquid: The Future Solvent for Oil and Gas Industries" (2008), Glenmarie, Malaysia. (Invited Keynote Lecture)
683. R. D. Rogers, Marcin Smiglak, and David M. Drab "A Modular 'Ionic Liquid' Platform for the Custom Design of Energetic Materials," Presented by R. D. Rogers at the Energetic Ionic Liquids Workshop (2008), Colorado Springs, CO; no abstract. (Invited Presentation)
684. R. D. Rogers, "Approaches to the Understanding and Utilization of Unique Ionic Liquid Properties: Physical (Solvents), Chemical (Energetic Materials), and Biological (Pharmaceuticals)," Presented by R. D. Rogers before the 20th International Conference on Chemical Thermodynamics (2008), Warsaw, Poland, Abstract IL-In-1, p 181. (Invited Lecture)
685. R. D. Rogers, "How I&EC supports innovative technologies for a sustainable future and those who will develop them," Presented by R. D. Rogers before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract PRES 005. (Invited Presentation)
686. R. D. Rogers, "Ionic liquids: Growth of a field through the eyes of the I&EC division," Presented by R. D. Rogers before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 079. (Invited Presentation)
687. D. R. MacFarlane, J. L. Scott, and R. D. Rogers, "Drug" ionic liquids: A new phase for the pharmaceutical world," Presented D. R. MacFarlane before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract ORGN 302.
688. M. Smiglak and R. D. Rogers, "Protocols for halide free synthesis of ionic liquids via hydrogen carbonate precursors," Presented by M. Smiglak before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 200.
689. R. D. Rogers, "From crystalline salts to ionic liquids and back again: In the hunt for novel separations," Presented by R. D. Rogers before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 003. (Invited Presentation)
690. W. L. Hough-Troutman, M. Smiglak, J. Pernak, D. T. Daly, and R. D. Rogers, "Sweetener and antibacterial ionic liquids," Presented by W. L. Hough-Troutman before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 183.
691. J. L. Scott, D. R. MacFarlane, P. Dean, J. Turanjanin, and R. D. Rogers, "An anticrystal engineering approach to functional ionic liquids," Presented by J. L. Scott before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 178.
692. G. Gurau, K. Rogers, and R. D. Rogers, "Caffeine ionic liquids – dream or reality?" Presented by G. Gurau before the 236th ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 111.
693. R. D. Rogers, "What are Ionic Liquids?" Presented by R. D. Rogers at the Intensive Seminar of the Crystallization Technical Group of the Association of Powder Process Industry and Engineering (APPIE) (2008), Tokyo, Japan, Abstract Booklet. (Invited Plenary Lecture)

694. G. Gurau, V. Cocalia, and R. D. Rogers, "Separations, Coordination, and Solvation in Ionic Liquids: What is There That is Unique? Presented by R. D. Rogers at the International Solvent Extraction Conference: Solvent Extraction - Fundamentals to Industrial Applications (2008), Tucson, AZ, Abstract 266. (Invited Keynote Presentation)
695. R. D. Rogers, "Ionic Liquids and Solvent Extraction," Presented by R. D. Rogers in the Solvent Extraction Short Course at the International Solvent Extraction Conference: Solvent Extraction - Fundamentals to Industrial Applications (2008), Tucson, AZ. (Invited Instructor)
696. R. D. Rogers, J. Chen, H. L. Yang, and D. Q. Li, "Preliminary Investigation of the Kinetics of the Separation of Yttrium(III) Using Cyanex 923 and Ionic Liquids," Presented by R. D. Rogers at the International Solvent Extraction Conference: Solvent Extraction - Fundamentals to Industrial Applications (2008), Tucson, AZ, Abstract 87.
697. R. D. Rogers, "Ionic liquids for the dissolution of biomass: Where can this lead?" Presented by R. D. Rogers before the Green Solvents – Progress in Science and Application conference (2008), Friedrichshafen, Germany, Abstract Book, p 25 (Invited Keynote Presentation)
698. M. Dilip, S. T. Griffin, S. K. Spear, H. Rodríguez, and R. D. Rogers, "Aqueous biphasic extraction chromatographic (ABEC) resins based on polyethylene glycol as an alternative for the removal of perchlorate from aqueous media" Presented by H. Rodríguez before the Green Solvents – Progress in Science and Application conference (2008), Friedrichshafen, Germany, Abstract Book, p 109.
699. M. Francisco, H. Rodríguez, M. Rahman, and R. D. Rogers, "Liquid-liquid equilibria of mixtures of polyethylene glycol and ionic liquid: biphasic systems for high temperature applications" Presented by H. Rodríguez before the Green Solvents – Progress in Science and Application conference (2008), Friedrichshafen, Germany, Abstract Book, p 112.
700. R. D. Rogers, Invited Panelist at the Royal Institution of Great Britain Event "The Best President for Science" (2008), London, United Kingdom. (Invited Lecture).
701. R. D. Rogers, "Approaches to the Understanding and Utilization of Unique Ionic Liquid Properties: Physical (Solvents), Chemical (Energetic Materials), and Biological (Pharmaceuticals)," Presented by R. D. Rogers before the International Bunsen Discussion Meeting "Influence of Ionic Liquids on chemical and physicochemical reactions" (2008), Clausthal, Germany, Abstract Book p 63. (Invited Plenary).
702. R. D. Rogers, "At the Intersection of Cocrystals and Ionic Liquids," Presented by R. D. Rogers before the Indo-US Bilateral Workshop on Pharmaceutical Co-Crystals and Polymorphs (2009), Mysore, India, Abstract Book p 22. (Invited Lecture).
703. R. D. Rogers, "Getting Involved in the Scientific Publishing Process with *Crystal Growth & Design*: What Does it Take?," Presented by R. D. Rogers) at the 38th National Seminar on Crystallography (2009), Mysore, India, Abstract-Supplement to Abstract Book. (Invited Special Presentation)
704. R. D. Rogers, K. R. Seddon, M. Smiglak, and D. F. Wassell, "Ionic Liquids: Tailoring Unique, Multiply Redundant Liquids for Space Applications," Presented by R. D. Rogers before the Space, Propulsion & Energy Sciences International Forum (SPESIF-2009), Huntsville, AL Abstract Book Section W4.1.1.2.
705. R. D. Rogers, "From Green Chemistry to a 'Green' Industrial Revolution: Are Ionic Liquids Pointing the Way?," Presented by R. D. Rogers before the 237th ACS National Meeting (2009), Salt Lake City, UT, Abstract YCC 011. (Invited Presentation)
706. R. D. Rogers, S. Mroczynski, S. K. Spear, M. Rahman, N. Sun, and D. T. Daly "Utilizing the Unique Properties of Ionic Liquids to Prepare Advanced Composite Fibers," Presented by R. D. Rogers before the 6th International Conference of Textile Research Division National Research Centre, Cairo, Egypt; Textile Processing : State of the Art & Future Developments (2009), Cairo, Egypt, Abstract Book Page 9 (4/5/09). (Invited Plenary Presentation)
707. R. D. Rogers, "Ionic Liquids as Active Pharmaceutical Ingredients," Presented by R. D. Rogers before Molecules, Materials, Medicines (M3-2009) an International Conference on the Role of Materials Science and Engineering in Drug Development (2009), Santa Barbara, CA. (Invited Presentation)
708. R. D. Rogers, K. Bica, G. Gurau, M. Smiglak, H. Rodríguez, and J. Shamshina, "Ionic Liquids at the Intersections," Presented by R. D. Rogers before the 3rd International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Oral 41. (Invited Plenary Presentation)
709. K. Bica and R. D. Rogers, "Confused Ions in Ionic Liquids Pharmaceutically Active Ionic Liquids composed of Oligomers," Presented by K. Bica before the 3rd International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 52.
710. H. Rodríguez, M. Francisco, and R. D. Rogers, "Polymer/Ionic Liquid Aqueous Biphasic Systems," Presented by H. Rodríguez before the 3rd International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 158.
711. H. Rodríguez, and R. D. Rogers, "Biphasic, Non-Volatile, Liquid Mixtures of Polyethylene Glycols or Polypropylene Glycols with Hydrophilic Imidazolium Ionic Liquids," Presented by H. Rodríguez before the 3rd International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 157.
712. M. F. Taha, G. Srinivasan, J. D. Holbrey, and R. D. Rogers, "Standard reduction potentials ionic liquids containing polyhalide anions ($[XY_2]^-$, where X and Y are Cl, Br, I)," Presented by M. F. Taha before the 3rd Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 100.
713. G. Gurau and R. D. Rogers, "At the Intersection of Cocrystals and Ionic Liquids", Presented by G. Gurau before the 3rd Congress on Ionic Liquid (COIL-3) (2009), Cairns, Australia, Abstract Poster 211.
714. M. Abai, G. Srinivasan, Y. Zou, J. D. Holbrey, R. D. Rogers, "Ionic Liquid Thiouronium Salts," Presented by M. Abai before the 3rd Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 323.

715. C. D. Wilfred, S. Shukla, J. D. Holbrey, R. D. Rogers, "Microwave optimized synthesis of N-butyl-N-methylpyrrolidinium methylcarbonate; a functional precursor to the diversity synthesis of ionic liquids," Presented by J. D. Holbrey before the 3rd Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 324.
716. W. L. Hough-Troutman, J. Shamshina, M. Smiglak, and R. D. Rogers, "The Synthesis and Characterization of Caine Ionic Liquids," Presented by W. L. Hough-Troutman before the 3rd International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 325.
717. M. Huszár, A. Varga, A. Metlen, A. Horváth, T. Vántus, H. Rodríguez, M. Idei, G. Kéri, and R. D. Rogers, "Analytical and biological study of a new hydroxiquinoline-based library," Presented by M. Huszár and A. Varga before the 3rd International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 326.
718. A. Metlen, R. D. Rogers, "Syntheses and characterization of dithiocarbamate salts and ionic liquids," Presented by A. Metlen before the 3rd Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 340.
719. A.-F. Ngomisk and R. D. Rogers, "From ferrofluids to magnetic ionic liquids: New smart fluids in separation process," Presented by A.-F. Ngomisk before the 3rd Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 343.
720. R. D. Rogers, "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers before the joint 9º Encontro Nacional de Química Física/1st Iberian Meeting on Ionic Liquids (2009), Aveiro, Portugal, Abstract Book p 4. (Invited Plenary Presentation)
721. R. D. Rogers, "Separations using Ionic Liquids; What is there that is unique?," Presented by R. D. Rogers before the 15th International Conference on Biopartitioning and Purification (2009), Uxbridge, UK, Abstract K-8. (Invited Keynote Presentation)
722. A. N. Lovich, J. E. Lockhard, R. L. White, M. M. Bailey, J. F. Rasco, M. B. Henson, P. L. Jernigan, J. Sturdivant, R. P. Swatloski, R. D. Rogers, and R. D. Hood, "A Comparison of the Effects of Prenatal Exposure of CD-1 Mice to Three Imidazolium-based Ionic Liquids," Teratology Society, Presented by M. M. Bailey before the 49th Annual Meeting of the Teratology Society (2009), Rio Grande, Puerto Rico, Abstract P31 (*Birth Defects Research (Part A)* **2009**, *85*, 431.
723. W. L. Hough-Troutman, C. Troutman, M. Smiglak, J. Shamshina, D. Daly, and R. Rogers, "PDH Technologies, Inc. experience in raising funds in a university environment," Presented by W. L. Hough-Troutman before the before the 238th ACS National Meeting (2009), Washington, DC, Abstract BMGT 010.
724. R. D. Rogers and N. Sun, "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers before the Joint Conference: The 4th International Conference on Green and Sustainable Chemistry (GSC-4) & the 2nd Asian-Oceanian Conference on Green and Sustainable Chemistry (AOC-2) (2009), Beijing, China, Abstract PL-8; p. 9. (Invited Plenary Speaker)
725. R. D. Rogers, "Aspects of the Application of Ionic Liquids in the Separations of f-Elements: Coordination and Solvation," Presented by R. D. Rogers before the 7th International Conference on f-Elements ,ICfE-7 (2009), Cologne, Germany, Abstract P12. (Invited Plenary Speaker)
726. R. D. Rogers and N. Sun, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the Sixteenth Symposium on Separation Science and Technology for Energy Applications (2009), Gatlinburg, TN, Abstract Book p. 30. (Invited Speaker)
727. H. Rodríguez, M. Francisco, M. Rahman, and R. D. Rogers, "Biphasic liquid mixtures of imidazolium-based chloride ionic liquids and polyethylene glycols," Presented by H. Rodríguez before the 24th European Symposium on Applied Thermodynamics (ESAT-24) (2009), Santiago de Compostela, Spain, Abstract Book, p. 144.
728. R. D. Rogers, "The Hidden Commercial Opportunities for Ionic Liquids" Presented by R. D. Rogers before the Intertech Pira Conference *Ionic Liquids* (2009), Miami Beach, FL, Abstract on cd. (Invited Talk and Co-Chair of the meeting)
729. R. D. Rogers and N. Sun, "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers before Society of Environmental Toxicology and Chemistry (SETAC) North America 30th Annual Meeting (2009), New Orleans, LA, Abstract 431; p. 100. (Invited Speaker)
730. P. E. Clark, R. Boyle, J. Ku, B. Beaman, R. D. Rogers, M. Smiglak, S. Nagihara, G. Knowles, M. Bradley, M. B. Milam, "Geothermal System Designs for Lunar Surface Environment Science Activities," Presented by P. E. Clark before the Annual Meeting of the Lunar Exploration Analysis Group (LEAG 2009) (2009), Houston, TX.
731. R. D. Rogers, "What are the greatest challenges for increasing the contribution of green chemistry to the larger scientific community, i.e. what is holding green chemistry back?" Panel Presentation by R. D. Rogers at the National Academies/National Research Council Green Chemistry and Sustainability Project Initiation Meeting (2009), Washington, DC, No Abstract.
732. R. D. Rogers, "Crystallization Process in Ionic Liquids," Presented by R. D. Rogers before the Symposium on Green Process for Particle Production (2010), Kyoto, Japan; Abstract Book pp 7-11. (Invited Keynote Lecture)
733. M. Smiglak, G. T. Parker, R. D. Rogers, "Thermal conductivities of ionic liquid-regolith mixtures: Improving heat transfer for innovative thermal and power systems at the Lunar surface," Presented by M. Smiglak before SPESIF-2010 Space, Propulsion & Energy Sciences International Forum, Johns Hopkins University Applied Physics Laboratory, Laurel, MD, February 23-26, 2010, Abstract 068.
734. R. D. Rogers, "Ionic Liquids: Are the applications of ionic liquids as materials more important than the use of ionic liquids as solvents?" Presented by R. D. Rogers before EUCHEM 2010 Conference on Molten Salts and Ionic Liquids (2010), Bamberg, Germany, Abstract Book p 89. (Invited Keynote Lecture)

735. K. Bica, P. Gaertner, and R. D. Rogers, "Ionic Liquids and Fragrances: Isolation of Essential Oils from Biomass," Presented by K. Bica before EUCHEM 2010 Conference on Molten Salts and Ionic Liquids (2010), Bamberg, Germany, Abstract LMP 47, Abstract Book p 343.
736. B. Stoner, N. Sun, and R. D. Rogers, "Dissolution and regeneration of wood in [C_2mim]OAc and formation of wood composite fibers," Presented by B. Stoner before the 239th ACS National Meeting (2010), San Francisco, CA, Abstract CHED 725.
737. N. Sun, X. Jiang, M. L. Maxim, R. D. Rogers, "Wood delignification using polyoxometalates in ionic liquid," Presented by R. D. Rogers before the 239th ACS National Meeting (2010), San Francisco, CA, Abstract FUEL 014. (Invited Speaker)
738. M. Smiglak, G. Gurau, D. M. Drab, J. L. Shamshina, S. P. Kelley, V. Cocalia, S. T. Griffin, A.-V. Mudring, and R. D. Rogers, "Crystallization of actinides from ionic liquids," Presented by R. D. Rogers before the 239th ACS National Meeting (2010), San Francisco, CA, Abstract NUCL 016. (Invited Speaker)
739. G. Gurau and R. D. Rogers, "Importance of benchmarking Green Chemistry," Presented by R. D. Rogers before the 239th ACS National Meeting (2010), San Francisco, CA, Abstract CINF 026. (Invited Speaker)
740. R. D. Rogers, "Ionic Liquids Laboratory to Commercialization," Presented by R. D. Rogers before the Home for Foreign Experts – Meeting of the Chinese Academy of Sciences Senior International Scientists and Young Fellows (2010), Beijing, China; No Abstract. (Invited Plenary presentation).
741. B. J. Herring, A. L. Logsdon, A. N. Lovich, J. E. Lockard, E. R. Janzen, J. F. Rasco, K. R. Di Bona, R. D. Hood, R. P. Swatloski, R. D. Rogers, and M. M. Bailey, "Anion Influence on the Toxicity of Short-Chain Imidazolium-Based Ionic Liquids in CD-1 Mice," Presented by B. J. Herring before the 50th Annual Meeting of the Teratology Society (2010), Louisville, KY, Abstract P41 (*Birth Defects Research (Part A)* **2010**, *88*, 392).
742. W. Li, N. Sun, B. Stoner, X. Lu, and R. D. Rogers, "How can we improve the dissolution and recovery of biopolymers from biomass in ionic liquids specifically for biofuels applications?" Presented by R. D. Rogers before the 240th ACS National Meeting (2010), Boston, MA, Abstract FUEL 061. (Invited Plenary Speaker)
743. R. D. Rogers, G. Gurau, and D. T. Daly, "Open innovation and the faculty entrepreneur: opportunities and perils," Presented by R. D. Rogers before the 240th ACS National Meeting (2010), Boston, MA, Abstract BMGT 037. (Invited Speaker)
744. R. D. Rogers and Ning Sun, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the 2nd Asia Pacific Conference on Ionic Liquids and Green Processes (2010) (APCIL-2), Dalian, China, Abstract Book page 27. (Invited Plenary Presentation)
745. R. D. Rogers, "Developing Ionic Liquid Know-How for the Design of Modular Functionality, Versatile Platforms, and New Synthetic Methodologies for Energetic Materials, Presented by R. D. Rogers before the AFOSR Review for Organic Materials Chemistry and Molecular Design and Synthesis (2010), National Harbor, MD, Abstract.
746. R. D. Rogers, "How can we improve the dissolution and recovery of biopolymers from biomass in ionic liquids specifically for biofuels applications?" Presented by R. D. Rogers before Frontiers in Biorefining: Biobased Products from Renewable Carbon (2010), St. Simons Island, GA, Abstract Book p 11. (Invited Speaker)
747. N. Sun, X. Jiang, W. Li, X. Lu, and R. D. Rogers, "Wood Pulping Using Ionic Liquids," Presented by G. Gurau substituting for R. D. Rogers before the 4th International Symposium on Emerging Technologies of Pulping and Papermaking, 4th ISETPP (2010), Guangzhou, China, Abstract. (Invited Plenary Lecture)
748. R. D. Rogers, N. Sun, and Y. Qin, "The unique ability of ionic liquids to dissolve raw biopolymers such as cellulose and chitin, provides an opportunity to develop analytical techniques for molecular weight determination," Presented by R. D. Rogers before the 2010 International Chemical Congress of Pacific Basin Societies, Pacifichem 2010 (2010), Honolulu, HI, Abstract ANYL 870. (Invited Presentation)
749. R. D. Rogers, M. Smiglak, and J. Shamshina, "Azolium azolate ionic liquids from reactions of neutral azoles with 1,3-diemthylimidazolium-2-carboxylate, 1,2,3-trimethylimidazolium hydrogen carbonate, and *N,N*-dimethylpyrrolidinium hydrogen carbonate," Presented by R. D. Rogers before the 2010 International Chemical Congress of Pacific Basin Societies, Pacifichem 2010 (2010), Honolulu, HI, Abstract ENVI 237. (Invited Presentation)
750. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the 1st Japanese Symposium on Ionic Liquids (2011), Tottori, Japan, Abstract Book PL-01 pp 1-2. (Invited Plenary Presentation)
751. R. D. Rogers, "Where are ionic liquids strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?" Presented by R. D. Rogers before the 2nd Annual Next Generation Bio-Based Chemicals Summit, Bringing Together the Value Chain for Drop-In and New Chemicals (2011), San Diego, CA, Published Presentation. (Invited Keynote Presentation)
752. N. Pogodina, E. Metwalli, P. Müller-Buschbaum, J. Shamshina, R. D. Rogers, and C. Friedrich, "Structure and Dynamics of Azolium-Azolate Ionic Liquids," Presented by N. Pogodina before the DFG-SPP 1191 Priority Program Spring 2011 meeting (Potsdam, Germany); Abstract.
753. S. P. Kelley, T. G. Parker, and R. D. Rogers, "Actinide chemistry in ionic liquids," Presented by Steven Kelley before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 029.
754. S. P. Kelley, T. G. Parker, and R. D. Rogers, "Actinide complexes with *N*-donors from ionic liquids," Presented by Steven Kelley before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract NUCL 057.
755. P. D. McCrary, M. Smiglak, S. K. Spear, N. S. Bates, D. T. Daly, and R. D. Rogers, "Release of Ionic Liquid-Active Pharmaceutical Ingredients from Biopolymeric Beads," Presented by P. D. McCrary before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 106.

756. G. Gurau and R. D. Rogers, "Ionic liquids as active pharmaceutical ingredients (IL-APIs) – the challenges of commercialization," Presented by G. Gurau before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 119.
757. J. Shamshina, M. Smiglak, D. M. Drab, and R. D. Rogers, "Energetic Ionic Liquids," Presented by J. Shamshina before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 107.
758. D. Daly, R. Rogers, and Y. Qin, "Amine-CO_2: Tunable Approach for Ionic Liquid Supported Biomass Production and IL Recovery," Presented by D. Daly before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 117.
759. J. R. Canada, P. D. McCrary, G. Gurau, and R. D. Rogers, "Building a Career in Chemistry: The Importance of Undergraduate Research," Presented by J. R. Canada before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 120.
760. C. Sharma, C. Hines, and R. D. Rogers, "Temperature Controlled Release of Nicotine from its Metal Complexes," Presented by C. Sharma before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 028.
761. H. Rodríguez, S. Lago, M. Francisco, M. J. Earle, J. H. Holbrey, K. R. Seddon, R. D. Rogers, A. Soto, and A. Acre, "Ionic Liquids for Improved Liquid-Liquid Extraction Processes," Presented by H. Rodríguez before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 101.
762. M. Francisco, H. Rodríguez, N. Sun, M. Rahman, J. F. Pereira, M. G. Freire, L. P. Rebelo, J. A. Coutinho, and R. D. Rogers, "Biphasic Liquid-Liquid Systems Based on Ionic Liquids and Polyethylene Glycols," Presented by M. Francisco before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 103.
763. R. D. Rogers, "Award Address (ACS Award in Separations Science & Technology): Ionic Liquids form There to Here," Presented by R. D. Rogers before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 148. (Invited Award Address)
764. R. D. Rogers, "An Editor's Perspective on Contentious Issues Arising During Peer Review," Presented by R. D. Rogers before the 241st ACS National Meeting (2011), Anaheim, CA, Abstract CHED 1236. (Invited Presentation)
765. P. D. McCrary, P. A. Beasley, R. D. Rogers, T. W. Hawkins, S. Schneider, J. P. Perez, B. W. McMahon, S. L. Anderson, and S. Son "Loading Metal Nanoparticles in Energetic Ionic Liquids," Presented by P. D. McCrary before the Air Force Office of Scientific Research Molecular Dynamics Contractors Meeting (May 15-17, 2011), Pasadena, CA, Abstract.
766. R. D. Rogers, "Developing Ionic Liquid Know-How for the Design of Modular Functionality, Versatile Platforms, and New Synthetic Methodologies for Energetic Materials," Presented by R. D. Rogers before the Air Force Office of Scientific Research Molecular Dynamics Contractors Meeting (May 15-17, 2011), Pasadena, CA, Abstract.
767. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design*: An Editor's Perspective (*so pay attention!*)," Presented by R. D. Rogers before the American Crystallographic Association 2011 Annual Meeting (May 28 – June 2, 2011), New Orleans, LA Abstract 08.04.6. (Invited presentation)
768. J. F. B. Pereira, M. G. Freire, M. Francisco, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho, "Aqueous Biphasic Systems Composed of Polyethylene Glycols and Ionic Liquids and their Ability to Extract Biomolecules," Presented by M. G. Freire before the 2nd Iberian Meeting on Ionic Liquids (2nd IMIL) (2011), Santiago de Compostela and A Coruña, Galicia, Spain, Abstract.
769. H. Wang, G. Gurau, M. L. Maxim and R. D. Rogers, "Microwave-assisted dissolution and delignification of wood using 1-ethyl-3-methylimidazolium acetate ([emim]OAc)", Presented by H. Wang before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 368.
770. A. Narita, Parker D McCrary, John R Canada and R. D. Rogers, "Synthesis of ionic liquids consisting of FDA approved compounds", Presented by A. Narita before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 256.
771. G. Gurau, H. Rodríguez, S. P. Kelley, and R. D. Rogers, "Looking at the reactivity of 1-ethyl-3-methylimidazolium acetate with CO_2 and biomass from crystal structures: Will chemistry explain the controversies?", Presented by G. Gurau before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 310.
772. S. P. Kelley, E. S. Stoner, T. G. Parker, R. D. Rogers, "Ionic Liquids and Actinides: Unique Environments for f-Element Chemistry", Presented by S. P. Kelley before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D.C., Abstract 86.
773. P. D. McCrary, P. A. Beasley, T. W. Hawkins, S. Schneider, J. Paulo Perez, B. W. McMahon, S. L. Anderson, S. Son and R. D. Rogers, "Loading Metal Nanoparticles in Energetic Ionic Liquids", Presented by P. D. McCrary before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 213.
774. E. Stoner, S. Kelley, and R.D. Rogers, "Role of ionic liquids in the future of the thorium based nuclear fuel cycle", Presented by E. Stoner before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington DC, Abstract 333.
775. P. A. Beasley, P. D. McCrary, and R. D. Rogers, "New Generation of Energetic Materials based on Novel Asymmetric Multi-heterocyclic Architectures", Presented by P. A. Beasley before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 93.
776. J. R. Canada, P. D. McCrary, P. A. Beasley, A. Narita, R. D. Rogers, "Ionic Liquids Comprised of Biologically Active Amines", Presented by J. R. Canada before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 75.
777. J. Shamshina, H. W. H. Dykes, A. J. Reich, R. DiSalvo, M. Smiglak, and R. D. Rogers, "Catalytic ignition of ionic liquids for propellant applications," Presented by J. Shamshina before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 11.
778. M. G. Freire, J. F. B. Pereira, M. Francisco, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho, "Novel aqueous biphasic systems composed of ionic liquids and polyethylene glycols: Phase diagrams and extraction ability,"

Presented by M. G. Freire before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 17.

779. S. Y. Choi, H. Rodríguez, A. Mirjafari, D. F Gilpin, S. McGrath, K. R Malcolm, M. M Tunney, R. D Rogers, and Tony McNally, "Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers, Presented by H. Rodríguez before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 201.
780. R. M. Frazier, D. T. Daly, W. L. Hough, S. K. Spear, and R. D. Rogers, "New Ionic Liquids for Active Layers in Photovoltaics," Presented by R. M. Frazier before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 436.
781. N. V Pogodina, E. Metwalli, P. Müller-Buschbaum, G. Dlubek, J. Shamshina, R. D Rogers, and C. Friedrich, "Molecular structure and dynamics of Azolium-Azolate ionic liquids," Presented by N. V. Pogodina before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 54.
782. C. P Azubuike, H. Rodríguez, A. O Okhamafe, and Robin D Rogers, "Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution," Presented by H. Rodríguez before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 71.
783. O. A. Cojocaru, J. L. Shamshina, J. P. Edgeworth, G. Gurau, R. S. Ruoff, and R. D. Rogers, "Improved Electrical Energy Storage with Electrochemical Double Layer Capacitance Basedon Novel Carbon Electrodes," Presented by O. A. Cojocaru before the 4th Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 160.
784. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Joint Bioenergy Institute/Energy Biosciences Institute Workshop Lignin, Characterization, Extraction, & Adding Value (July 18-19, 2011), Emeryville, CA, No Abstract. (Invited Presentation)
785. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design* and Contentious Issues arising During Peer Review: An Editor's Perspective," Presented by R. D. Rogers before the 8th National Conference on Inorganic Chemistry (July 26-28, 2011), Harbin, China, Abstract 26M-PL-003. (Invited Plenary Presentation).
786. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design* and Contentious Issues arising During Peer Review: An Editor's Perspective (*so pay attention!*)," Presented by R. D. Rogers before the IUCr 2011 Satellite Workshop Categorizing Halogen Bonding and other Noncovalent Interactions Involving Halogen Atoms (Aug. 20-21, 2011), Sigüenza, Spain, Abstract Book p 49. (Invited Plenary). (http://www.iucr2011madrid.es/images/stories/pdf/Book_of_abstracts.pdf).
787. D. T. Daly, R. D. Rogers, and G. Gurau, "Disruptive technology for biomass processing using ionic liquids," Presented by D. T. Daly before the 242nd ACS National Meeting (Aug. 28 – Sept. 1, 2011), Denver, CO, Abstract BMGT 015.
788. J. F. B. Pereira, M. G. Freire, M. Francisco, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho, "Biomolecules Separation using Aqueous Biphasic Systems Composed of Polyethylene Glycols and Ionic Liquids," Presented by J. F. B. Pereira before IL SEPT (Sept. 4-7, 2011), Sitges, Spain, Abstract K09.
789. R. D. Rogers "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the 6th Asian Pacific Chemical Engineering Symposium, APCRE11 (Sept. 18-21, 2011), Beijing, China, Abstract Book p 1. (Invited Plenary Speaker)
790. P. S. Barber, S. P. Kelley, and R. D. Rogers, "Design and Coordination of f-elements with Amidoxime-Functionalized Ionic Liquids," Presented by P. S. Barber before the 17th Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 621.
791. S. P. Kelley, E. L. Stoner, and R. D. Rogers, "N-Donor Ionic Liquids as Unique Environments for f-Element Chemistry," Presented by S. P. Kelley before the 17th Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 617.
792. C. S. Griggs, S. L. Larson, J. H. Ballard, P. S. Barber, and R. D. Rogers, "Optimization and Evaluation of Uranium Sorptive Bio-materials," Presented by C. S. Griggs before the 17th Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 113.
793. E. L. Stoner, S. P. Kelley, and R. D. Rogers, "Application of Ionic Liquids for Separations in the Thorium Nuclear Fuel Cycle," Presented by E. L. Stoner before the 17th Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 618.
794. J. F. B. Pereira, M. G. Freire, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho "Insights into the Interactions that Control the Phase Behaviour of Novel Aqueous Biphasic Systems Composed of Polyethylene Glycols and Ionic Liquids," Presented by J. F. B. Pereira before MicroBiotec'11 (December 1-3, 2011), Braga, Portugal.
795. R. D. Rogers, "Preparation of High Purity, High Molecular Weight Chitin Nanofibers from Direct Extraction from Shrimp Shells with ILs for Use as an Adsorbate for Uranium from Seawater," Presented by R. D. Rogers before the DOE-NE Fuel Resources FY 12 Working Group Meeting (January 5–6, 2012), Oak Ridge, TN (No Abstract).
796. R. D. Rogers, "How an Understanding of Solid State Interactions can be Used to Prevent Solidification; the Case for Pure Pharmaceutical Liquid Salts and Cocrystals," Indo-US Bilateral Meeting on the Evolving Role of Solid State Chemistry in the Pharmaceutical Science (February 2-4, 2012), Manesar, India, Abstract Book pp 38-39. (not presented due to illness)
797. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the Indo-US Workshop on Green Chemistry for Environments and Sustainable Development (March 11-13, 2012), Dehradun, India, Abstract PL-2 p 7. (Plenary Speaker)

798. D. T. Daly, R. M. Frazier, Y. Qin, S. K. Spear, W. L. Hough, and R. D. Rogers, "Ionic liquids: A platform for innovation," Presented by R. M. Frazier before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 261.
799. R. D. Rogers, O. A. Cojocaru, A. Siriwardana, H. Holding, K. Bica, H. Rodriguez, G. Gurau, A. Riisager, and R. Fehrmann, "Ionic liquid active pharmaceutical ingredients loaded on silica: Solids handling for liquid pharmaceutical forms," Presented by R. D. Rogers before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 093. (Invited Award Presentation)
800. G. Gurau and R. D. Rogers, "Ionic liquids and shrimp shell waste – emerging technologies for the manufacture of nanochitin materials," Presented by G. Gurau before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 117.
801. H. Wang, G. Gurau, and R. D. Rogers, "Membrane transport of active pharmaceutical ingredient-based ionic liquids," Presented by H. Wang before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 292.
802. O. A. Cojocaru, G. Gurau, D. T. Daly, J. Pernak, and R. D. Rogers, "Improved Efficacy and Delivery of Herbicides in Ionic Liquid Form," Presented by O. A. Cojocaru before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 324.
803. P. A. Beasley, O. A. Cojocaru, P. D. McCrary, and R. D. Rogers, "Energetic Ionic Liquid 'Liquid Clathrates'," Presented by P. A. Beasley before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 008.
804. P. D. McCrary, P. A. Beasley, O. A. Cojocaru, T. W. Hawkins, S. Schneider, J. Paulo Perez, B. W. McMahon, S. L. Anderson, S. F. Son, and R. D. Rogers, "Nanoparticles in Hypergolic and Energetic Ionic Liquids," Presented by P. D. McCrary before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 007.
805. G. W. Drake, P. D. McCrary, P. A. Beasley, and R. D. Rogers, "Evaluating Energetic Ionic Liquids as Hypergolic Fuels," Presented by P. D. McCrary and Preston A. Beasley before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 003.
806. J. R. Canada, O. A. Cojocaru, Gabriela Gurau, Juliusz Pernak, and R. D. Rogers, "Using Herbicidal Ionic Liquids to Reduce the Impact on the Environment," Presented by O. A. Cojocaru before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 325.
807. J. R. Canada, R. Rogers, K. E. Peterman, G. P. Foy, "COP 17: Spreading the Word," Presented by K. E. Peterman before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract SOCED 006.
808. G. Gurau, D. T. Daly, and R. D. Rogers, "Ionic liquid (IL) base drugs for the $1.2B pain management sector: New disruptive directions in pain management," Presented by G. Gurau before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract COMSCI 008.
809. B. W. McMahon, J. L. Perez, S, L. Anderson, S, Schneider, J. Boatz, T. Hawkins, P. D. McCray, P. A. Beasley, R. D. Rogers, and S. Son, "Dual ligand passivation and homogeneous media ball milling: Novel approaches for both the synthesis and capping of air-stable aluminum nanoparticles," Presented by B. W. McMahon before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract FUEL 367.
810. J. L. Perez, B. W. McMahon, S, L. Anderson, S, Schneider, J. Boatz, T. Hawkins, P. D. McCray, P. A. Beasley, and R. D. Rogers "Synthesis of air-stable, unoxidized boron nanoparticles using ball milling technique," Presented by J. L. Perez before the 243rd ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract FUEL 369.
811. R. D. Rogers, P. S. Barber, C. S. Griggs, E. L. Stoner, and S. P. Kelley, "Ionic Liquids for Extraction and Functionalization of Uranium Selective Chitin Sorbents," Presented by G. Gurau before the 2012 Materials Research Society Spring Meeting & Exhibit (April 9-13, 2012), San Francisco, CA, Abstract BBB 6.3. (Invited Speaker)
812. H. Wang, A. Kumar, G. Gurau, and R. D. Rogers, "Extraction of Sandalwood Oil from Sandalwood using Ionic Liquids," Presented by H. Wang before the 2012 Materials Research Society Spring Meeting & Exhibit (April 9-13, 2012), San Francisco, CA, Abstract BBB 4.8. (Invited Speaker)
813. G. Gurau and R. D. Rogers, "Nanochitin Materials from Shrimp Shell Waste – Manufacturing Challenges in an Ionic Liquid Process," Presented by G. Gurau before the 2012 Materials Research Society Spring Meeting & Exhibit (April 9-13, 2012), San Francisco, CA, Abstract BBB 3.6. (Invited Speaker)
814. R. D. Rogers, "Do you really understand all there is to know about Ionic Liquids?" Presented by R. D. Rogers before M3 Molecules Materials Medicines: An International Conference on the Role of Materials Science and Engineering in Drug Development (May 19-22, 2012), Banff, Alberta, Canada, Abstract. (Invited Keynote Address)
815. P. D. McCrary, P. A. Beasley, O. A. Cojocaru, S. P. Kelley, S. A. Alaniz, T. W. Hawkins, S. Schneider, J. A. Boatz, J. P. L. Perez, B. W. McMahon, S. L. Anderson, M. Pfeil, S. F. Son, and R. D. Rogers. "Controlling the Properties of Energetic Ionic Liquids (EILs) by Stabilizing Reactive Nanomaterials," Presented by P. D. McCrary before the AFOSR Contractors' Meeting (May 22-24, 2012), Arlington, VA, Abstract.
816. P. A. Beasley, P. D. McCrary, O. A. Cojocaru, T. W. Hawkins, S. Schneider, and R. D. Rogers, "Energetic Ionic Liquid "Liquid Clathrates"," Presented by P. A. Beasley before the AFOSR Contractors' Meeting (May 22-24, 2012), Arlington, VA, Abstract.
817. G. Gurau, H. Wang, and R. D. Rogers, "Polymorphs, Salts, and Cocrystals of Active Pharmaceutical Ingredients and the FDA Proposed Classifications: What will they think of Ionic Liquid Forms?," Presented by G. Gurau before the Gordon Research Conference on Crystal Engineering (June 10-15, 2012), Waterville Valley Resort, NH, Abstract 34.
818. S. P. Kelley, A. Narita, H. Wang, O. A. Cojocaru, G. Gurau, and R. D. Rogers "Ionic Liquids, Ionic Cocrystals, and Salts: Structural Consequences of Proton Sharing via Strong Hydrogen Bonds," Presented by S. P. Kelley before the Gordon Research Conference on Crystal Engineering (June 10-15, 2012), Waterville Valley Resort, NH, Abstract 41.

819. R. D. Rogers, "Science, service, and the ACS: Becoming an ACS Fellow from the I&EC Division," Presented by R. D. Rogers before the 244th ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 043. (Invited Presentation)
820. C. S. Griggs, P. S. Barber, S. P. Kelley, G. Gurau, and R. D. Rogers, "Electrospun chitin nanofibers for uranyl absorbant materials," Presented by C. S. Griggs before the 244th ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 058.
821. P. S. Barber, S. P. Kelley, C. S. Griggs, and R. D. Rogers, "Amidoxime functionalized materials for the selective extraction of the uranium," Presented by P. S. Barber before the 244th ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 054.
822. R. D. Rogers, P. S. Barber, C. S. Griggs, S. P. Kelley, and G. Gurau, "Extraction of uranium with regenerated chitin from the dissolution of shrimp shells in ionic liquid," Presented by R. D. Rogers before the 244th ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 106.
823. S. P. Kelley and R. D. Rogers, "Application of Unusual Metal Speciation in ILs to f-Element Separations," Presented by S. P. Kelley before the 244th ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 105.
824. R. D. Rogers, "Ionic liquids and strategic metals: Challenges and opportunities," Presented by R. D. Rogers before the 244th ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract ANYL 189. (Invited Presentation)
825. J. F. B. Pereira, Teresa Mourão, O. A. Cojocaru, G. Gurau, L. P. N. Rebelo, R. D. Rogers, J. A. P. Coutinho, and M. G. Freire, "Biodegradable and biocompatible aqueous biphasic systems composed of polymers and choline-based ionic liquids," Presented by J. F. B. Pereira before the 4th International IUPAC Conference on Green Chemistry (August 25-29, 2012), Foz do Iguaçu/PR, Brazil, Abstract Book p 74.
826. R. D. Rogers, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin," Presented by R. D. Rogers before the 4th International IUPAC Conference on Green Chemistry (August 25-29, 2012), Foz do Iguaçu/PR, Brazil, Abstract Book p 11. (Invited Plenary Speaker).
827. R. D. Rogers, "Solvents, Separations, and Renewables," A Short Course presented by R. D. Rogers before the 4th International IUPAC Conference on Green Chemistry (August 25-29, 2012), Foz do Iguaçu/PR, Brazil, Abstract Book p xi. (Invited Course Instructor).
828. H. Wang, A. Myerson, and R. D. Rogers, "Separations utilizing hydrophobic vs. hydrophilic ionic liquids in support of continuous pharmaceutical manufacturing," Presented by H. Wang before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract E-12, p. 128.
829. G. Gurau, C. S. Griggs, P. S. Barber, and R. D. Rogers, "Shell Fish and Ionic Liquids – Turning Waste into Advance Materials," Presented by G. Gurau before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract G-13, p. 176.
830. P. D. McCrary, P. A. Beasley, and R. D. Rogers, "Ionic Liquids as 'Practical' Energetic Materials," Presented by P. D. McCrary before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract G-03, p. 166.
831. R. D. Rogers and G. Gurau, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin," Presented by R. D. Rogers before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract P-01, p. 1. (Invited Plenary Speaker).
832. R. D. Rogers and G. Gurau, "Extraction and Manufacturing of Nanochitin Materials from Shrimp Shell Waste Using Ionic Liquids," 15th International Biotechnology Symposium and Exposition (IBS 2012), "Innovative Biotechnology for a Green World and Beyond" (Sept. 16-21, 2012), Daegu, South Korea, Abstract cd O-S8-0086. (Invited Speaker).
833. S. Mateyawa, P. Halley, R. Truss, F. Xie, T. Nicholson, T. McNally, and R. Rogers, Starch polymer nanocomposite systems: use of ionic liquids and nanofillers," Presented by S. Mateyawa before the 13th International Symposium on Biopolymers (ISBP 2012, October 7-10, 2012), Cairns, Australia, Abstract http://isbp2012.com.au/symposium-abstracts/.
834. R. D. Rogers, "What can ionic liquids, the antithesis of solid crystalline materials, teach us about controlling the form of active pharmaceutical ingredients? Crystals, cocrystals, and salts," Presented by R. D. Rogers before the Indian Institute of Technology Bombay – American Chemical Society Symposium (Oct. 1-2, 2012), Mumbai, India, Abstract. (Invited Lecture)
835. R. D. Rogers, "What can ionic liquids, the antithesis of solid crystalline materials, teach us about controlling the form of active pharmaceutical ingredients? Crystals, cocrystals, and salts," Presented by R. D. Rogers before the National Chemical Laboratory - American Chemical Society On Campus Symposium (Oct. 10, 2012), Pune, India, Abstract. (Invited Lecture)
836. R. D. Rogers, "What can ionic liquids, the antithesis of solid crystalline materials, teach us about controlling the form of active pharmaceutical ingredients? Crystals, cocrystals, and salts," Presented by R. D. Rogers before the Indian Association for the Cultivation of Science - American Chemical Society On Campus Symposium (Oct. 12, 2012), Calcutta, India, Abstract. (Invited Lecture)
837. R. D. Rogers, "How can the liquid state help us master the solid state? A study of Ionic Liquids in the pharmaceutical sector," Presented by R. D. Rogers before the 6th National Symposium on Structural Chemistry (6th NSSC; Oct. 22-25, 2012), Suzhou, China, Abstract KL-01. (Invited Keynote Lecture)
838. R. D. Rogers, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers before the CSIRO Cutting Edge 2012 Symposium on Biological and Chemical Conversion of Renewables to Fuels and Chemicals (Nov. 13-15, 2012), Parkville, Australia, Abstract D2. (Invited Lecture).

839. R. D. Rogers, "Developing Ionic Liquid Know-How for the Design of Modular Functionality, Versatile Platforms, and New Synthetic Methodologies for Energetic Materials," Presented by R. D. Rogers before the Air Force Office of Scientific Research Molecular Dynamics Contractors Meeting (December 3-4, 2012), Pasadena, CA, Abstract .
840. R. D. Rogers and P. D. McCrary, "The Development of Advanced Liquid Composite Materials by Controlling Stabilization of Nanoparticles in Ionic Liquids," Presented by R. D. Rogers before the 2013 Materials Research Society Spring Meeting & Exhibit (April 1-5, 2013), San Francisco, CA, Abstract VV2.07.
841. P. D. McCrary, G. P. Foy, K. E. Peterman, and R. D. Rogers, "Youth Involvement at the 18th Conference of Parties and the Need for Climate Science Literacy," Presented by P. D. McCrary before the 245th ACS National Meeting (April 7-11, 2013), New Orleans, LA, Abstract CHED 506.
842. P. D. McCrary, S. A. Alaniz, and R. D. Rogers. "Controlling the Properties of Energetic Ionic Liquids through the Incorporation of Reactive Nanomaterials," Presented by P. D. McCrary before the 245th ACS National Meeting (April 7-11, 2013), New Orleans, LA, Abstract I&EC 116.
843. S. K. McNeil, S. P. Kelley, C. Beg, H. W. Cook, R. D. Rogers, and D. E. Nikles. "Co-crystals of 1,3-dinitrobenzene and 10-methylphonothiazine: Implications for detecting explosives," Presented by S. K. McNeil before the 245th ACS National Meeting (April 7-11, 2013), New Orleans, LA, Abstract I&EC 133.
844. R. D. Rogers, "What happens when co-crystals don't crystallize?" Presented by R. D. Rogers before the CPI Conference CRYSTALLIZATION (April 16-17, 2013), Mumbai, India. (Invited Lecture)
845. O. A. Cojocaru, J. Shamshina, K. Bica, G. Gurau, A. Narita, P. D. McCrary, P. S. Barber, and R. D. Rogers, "Prodrug ionic liquids: functionalizing neutral active pharmaceutical ingredients to take advantage of the ionic liquid form," Presented by J. Shamshina before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P342. Poster
846. K. R. Di Bona, D. Yancey, S. Rizvi, M. Gray, G. Gurau, J. L. Shamshina, J. F. Rasco, and R. D. Rogers, "Transdermal Pharmacokinetic Studies of Ionic Liquids Composed Entirely of Active Pharmaceutical Ingredients," Presented by K. R. Di Bona before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P339.
847. G. Gurau, L. E. Block, J. Shamshina, and R. D. Rogers, "Wound dressings through an ionic liquid process – filling a gap in the wound care sector" Presented by G. Gurau before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract OP3.
848. P. D. McCrary, P. A. Beasley, G. Gurau, P. S. Barber, and R. D. Rogers, "Drug specific, tuning of an ionic liquid's hydrophilic-lipophilic balance to improve water solubility of poorly soluble pharmaceutical ingredients," Presented by P. D. McCrary before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P104.
849. P. D. McCrary, G. P. Foy, K. E. Peterman, and R. D. Rogers, "Youth Involvement at the 18th Conference of Parties and the Need for Climate Science Literacy," Presented by P. D. McCrary before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P105.
850. P. D. McCrary, S. A. Alaniz, and R. D. Rogers, "Controlling the Properties of Energetic Ionic Liquids through the Incorporation of Reactive Nanomaterials," Presented by P. D. McCrary before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract F36/P291.
851. P. S. Barber, C. S. Griggs, S. P. Kelley, S. Wallace, R. D. Rogers, "Using an Ionic Liquid Platform for the Development of Materials for the Extraction of Uranium from Seawater," Presented by P. S. Barber before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract F43/P81.
852. J. F. B. Pereira, L. P. N. Rebelo, R. D. Rogers, J. A. P. Coutinho, and M. G. Freire, "Combining ionic liquids and polyethylene glycols to boost the hydrophobic-hydrophilic range of aqueous biphasic systems," Presented by J. F. B. Pereira before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P65
853. J. Shamshina, P. D. McCrary, O. A. Cojocaru, G. Gurau, and R. D. Rogers, "Formation of pure liquid salt forms from active pharmaceutical ingredients to establish new drug delivery systems with superior properties," Presented by J. Shamshina before the 5th Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P85.
854. R. D. Rogers and S. P. Kelley, Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Abstract Only no Presentation to Past, Present, and Future of Crystallography@Politecnico di Milano, from Small Molecules to Macromolecules and Supramolecular Structures (June 6-7, 2013), Milan, Italy, Abstract Book p 11. (Invited)
855. R. D. Rogers, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin," Presented by R. D. Rogers before INORG2013 Conference (June 30 – July 4, 2013), Durban, South Africa, Abstract GS3, http://www.ic2013.ukzn.ac.za/. (Invited Plenary Speaker).
856. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers before the University of KwaZulu-Natal - American Chemical Society On Campus Symposium (July 5, 2013), Durban, South Africa. (Invited).
857. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers before the Wits University - American Chemical Society On Campus Symposium (July 8, 2013), Johannesburg, South Africa. (Invited).
858. R. D. Rogers, "Past, Present, and Future Ghosts in Submission, Review, and Archiving of Crystallographic Data in the American Chemical Society Journal *Crystal Growth & Design*," Presented by R. D. Rogers before the American Crystallographic Annual Meeting (July 20-24, 2013), Honolulu, HI, Abstract 13.10.04. (Invited)
859. O. A. Cojocaru and R. D. Rogers, "Ionic liquid forms of active pharmaceutical ingredients in drug delivery," Presented by O. A. Cojocaru before the 246th ACS National Meeting (September 8-12, 2013), Indianapolis, IN, Abstract AEI 066.

860. R. D. Rogers and G. Gurau, "Novel chitin fibers for wound care," Presented by D. T. Daly before the 246th ACS National Meeting (September 8-12, 2013), Indianapolis, IN, Abstract SCHB 019.
861. Z. Tywabi, B. Sithole, N. Deenadayalu, and R. D. Rogers, Structural changes in South African eucalyptus bleached dissolving pulp after dissolution in ionic liquid and co-solvent mixtures evidenced by FTIR and P'XRD, presented by Z. Tywabi before the Technical Association of the Pulp and Paper Industry of South Africa (TAPPSA) National Conference & Exhibition (October 22-23, 2013), Durban, South Africa.
862. M. Shadid, G. Gurau, B.-C. Chuang, M. Liao, S. Chowdhury, J.-T. Wu, S. A. A. Rizvi, R. D. Rogers, and R. J. Griffin, "Investigating the ADME properties of an ionic liquid salt form of sulfasalzine, a novel approach to improve drug exposure," Presented by M. Shadid before the 10th International Meeting of the International Society for the Study of Xenobiotics (September 30 – October 3, 2013), Toronto, Ontario, Canada, Abstract P127.
863. R. D. Rogers, "Advanced Materials from Renewable Polymers: Why Are We Still Using Synthetics?" Presented by R. D. Rogers before the 2013 CAS – TWAS Symposium on Green Technology (SGT2013; October 20–23, 2013; http://www.sgt2013.com/dct/page/1), Beijing, China, P-01, no abstract. (Plenary Speaker)
864. R. D. Rogers, (Walden Award Lecture) "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to COST Meeting, EXIL – Exchange on Ionic Liquids (November 24-26, 2013), Dresden, Germany, Abstract. (Invited Award Lecture)
865. R. D. Rogers, "Advanced Materials from Renewable Polymers: Why Are We Still Using Synthetics?" Presented by R. D. Rogers to the 65th Detmold Starch Convention (April 9-10, 2014), Detmold, Germany, Abstract 4.11. (Invited)
866. J. P. L. Perez, B. W. McMahon, J. Yu, S. Schneider, J. A. Boatz, T. W. Hawkins, P. D. McCrary, L. A. Flores, R. D. Rogers, and S. L. Anderson, "Synthesis and characterization of surface-functionalized aluminum and boron nanoparticles in hypergolic ionic liquid propellants," presented by S. L. Anderson before the Air Force Molecular Dynamics meeting (May 19-21, 2014), Arlington, VA.
867. R. D. Rogers, "Ideality vs. Reality of Green Chemistry in the Development of Advanced Materials from Renewable Polymers," Presented by R. D. Rogers before the 2014 CAS - TWAS Symposium on Advanced Engineering Science for Sustainable Development (AES 2014; May 28-30, 2014), Beijing, China, Abstract P-01. (Plenary Speaker)
868. R. D. Rogers, "Crystal Engineering to Liquid Engineering: Salts, cocrystals, deep eutectics, crystals, liquids…It's about the interactions and effects!" Presented by R. D. Rogers before the International Union of Pure and Applied Chemistry/International Council for Science Workshop on Crystal Engineering at the 1st International Symposium on Halogen Bonding (ISXB-1; June 18-22, 2014), Porto Cesareo, Italy, Abstract CE2. (Plenary Speaker)
869. H. Wang and R. D. Rogers, "Double salt ionic liquids: Expanding the range and tuneability of separations media," Presented by R. D. Rogers before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract PL2 (Plenary Presentation).
870. C. C. Weber, A. J. Kunov-Kruse1, R. D. Rogers, and A. S. Myerson, "Manipulating hydrogen bond complexes in ionic liquids to facilitate the purification of pharmaceuticals," Presented by C. C. Weber before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O02.4.
871. M. G. Freire, A. M. Ferreira, A. M. Fernandes, R. D. Rogers, and J. A. P. Coutinho, "pH-triggered reversible aqueous biphasic systems composed of ionic liquids," Presented by M. G. Freire before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O13.1.
872. J. F. B. Pereira, K. A. Kurnia, O. A. Cojocaru, G. Gurau, L. P. N. Rebelo, M. G. Freire, J. A. P. Coutinho, and R. D. Rogers, "Are crystalline cholinium salts really different from liquid cholinium salts in the formation of aqueous biphasic systems with polyethylene glycol?" Presented by J. F. B. Pereira before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O15.1.
873. S. Nemser, P. R. Campos, D. Campos, S. Majumdar, R. D. Rogers, G. Gurau, B. A. Simmons, S. Singh, and J. Sun, "Dehydration of ionic liquids by pervaporation with perfluorinated membranes," Presented by S. Nemser before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O17.1.
874. J. A. P. Coutinho, L. I. N. Tomé, M. G. Freire, J. R. Gomes, J. F. B. Pereira, and R. D. Rogers, "'Washing-out' polyethylene glycol-ionic liquid mixtures to form aqueous biphasic systems," Presented by J. A. P. Coutinho before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract P010.
875. F. A. e Silva, J. F. B. Pereira, R. D. Rogers, A. M. S. Silva, J. A. P. Coutinho, and M. G. Freire, "When do quaternary ammonium halides behave as ionic liquids in the formation of aqueous biphasic systems?" Presented by J. F. B. Pereira before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract PO44.
876. J. F. B. Pereira, L. A. Flores, H. Wang, and R. D. Rogers, "Ionic liquid-benzene mixtures: The key to understanding liquid clathrate formation," Presented by J. F. B. Pereira before the 2nd International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract P074.
877. R. D. Rogers, "Processing of Lignocellulosic Biomass Using Ionic Liquids," Presented by R. D. Rogers before the Hybrid Processing for Biorenewable Fuels & Chemicals Production Symposium (July 10-11, 2014), Denver, CO, No Abstract (Invited Speaker).

878. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources FY 14 Working Group Meeting (July 28-29, 2014), Sequim, WA (No Abstract).
879. G. Gurau, J. L. Shamshina, and R. D. Rogers, "High Throughput Electrospinning of Uranium Selective Chitin Adsorbents – A Sustainable Ionic Liquid Technology," Presented by G. Gurau before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 23.
880. J. L. Shamshina, G. Gurau, L. E. Block, L. K. Hansen, C. Dingee, A. Walters, and R. D. Rogers, "Chitin-Calcium Alginate Composite Fibers for Wound Care Dressings Spun from an Ionic Liquid," presented by J. L. Shamshina before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 48.
881. S. Yerkimbekova, J. L.Shamshina, G. Gurau, A. Zazybin, V. Yu1, and R. D. Rogers, "Ionic Liquids as Electrolytes," Presented by S. Yerkimbekova before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 64.
882. F. Cheng, H. Wang, and R. D. Rogers, "Enhancement of Dissolution and Delignification of Woody Biomass in Ionic Liquids in the Presence of Polyoxometalate and Oxygen," Presented by F. Cheng before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 10.
883. O. A. Cojocaru, J. Shamshina, J. Pernak, and R. D. Rogers, "Herbicidal Ionic Liquids with Reduced Volatility and Increased Efficacy," Presented by J. Shamshina before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 70.
884. H. Wang, A. S. Myerson, and R. D. Rogers, "Finely Tunable Solvent Properties of Ionic Fluids Containing More Than Two Ions," Presented by H. Wang before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 60.
885. S. P. Kelley, J. S. Nuss, and R. D. Rogers, "Forcing unusual Coordination with ionic Liquids designed for f-Element Coordination Chemistry," Presented by S. P. Kelley before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 28.
886. L. Flores, J. Pereira, H. Wang, P. McCrary, and R. D. Rogers, "Ionic Liquid Mixtures with benzene: A Greater Understanding of Liquid Clathrates," Presented by L. Flores before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines? (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 15.
887. H. Wang, J. Pereira, A. Myerson, and R. D. Rogers, "Double Salt Ionic Liquids Prepared by Mixing Partially Miscible Ionic Liquids: Tuning the Solubility of Lipophilic Molecules," Presented by R. D. Rogers before the 19th International Symposium on Molten Salts part of the 2014 ECS and SMEQ Joint International Meeting of the 226th Meeting of the Electrochemical Society Meeting and the XXIX Congreso de la Sociedad Mexicana de Electroquímica (October 5-9, 2014), Cancun, Mexico, Abstract H6.1419. (Invited Keynote Presentation)
888. R. D. Rogers and K. Boykin, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers before the Joint 31st Latin American Chemistry Congress (Congreso Latinoamericano de Química; CLAQ-2014) and XXVII Peruvian Chemistry Congress (October 14-17, 2014), Lima, Peru, Abstract. (Invited Plenary Presentation)
889. S. Nemser, D. Campos, P. R. Campos, J. Bowser, S. Majumdar, B. A. Simmons, S. Singh, J. Sun, J. Shi, R. D. Rogers, G. Gurau, and F. Cheng, "Perfluorinated Membranes for the Dehydration of Ionic Liquids for Processing Biomass," Presented by S. Nemser before the 2014 AIChE Annual Meeting (November 16-21, 2014), Atlanta, GA, Abstract 637b.
890. R. D. Rogers, "Ideality vs. Reality of Green Chemistry in the Development of Advanced Materials from Renewable Polymers," Presented by R. D. Rogers before the Semi-Annual Meeting of the Innovative Green Wood Fibre Products Network (Nov. 18-20, 2014), Esterel, QC, Canada, Abstract book. (Keynote Speaker)
891. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources FY 15 Working Group Meeting (January 12-13, 2015), Oak Ridge, TN (No Abstract).
892. R. D. Rogers, H. Wang, and S. P. Kelley. "Double salt ionic liquids with unique chemical environments for separations." Presented by R. D. Rogers before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 1.
893. J. L. Shamshina, G. Gurau, S. P. Kelley, and R. D. Rogers, "Uranium-from-seawater sorbents from fishing industry waste – cost reduction through solvent recycle." Presented by J. L. Shamshina before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 50.
894. G. Gurau, J. L. Shamshina, S. P. Kelley, and R. D. Rogers, "Uranium-from-seawater sorbents from industry waste – from batch to continuous production." Presented by G. Gurau before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 30.
895. S. P. Kelley, J. L. Shamshina, G. Gurau, and R. D. Rogers. "Dual functional sorbents for coextraction of aqueous copper and uranium." Presented by S. P. Kelley before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 48.
896. R. D. Rogers, S. P. Kelley, G. Gurau, G., and J. L. Shamshina. "Nanofiber chitin mats for coextraction of value added metals from seawater: Improving the economics of uranium recovery." Presented by R. D. Rogers before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 15.

897. J. Bandomir, S. P. Kelley, J. L. Shamshina, G. Gurau, and R. D. Rogers. "Homogeneous blending of chitin with biopolymers for advanced biodegradable sorbents for uranium extraction from seawater." Presented by J. Bandomir before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 47.
898. R. D. Rogers and S. P. Kelley. "A practical overview of organic synthesis in ionic liquids." Presented by R. D. Rogers before the 249th National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract ORGN 307.
899. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers before the 5th Annual Meeting of the Canada Excellence Research Chairs (April 13-14, 2015), Waterloo, ON, Canada.
900. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers before the L'Oréal Satellite Symposium at the 3rd International Symposium on Green Chemistry (ISGC 2015), May 3-7, 2015, La Rochelle France (Invited).
901. R. D. Rogers, "Are Alternative Solvent Systems such as Ionic Liquids Green or not Based on Toxicity, Chemical or Energy Use, or Utilization? (Hint: It Depends)," Presented by R. D. Rogers before the 3rd International Symposium on Green Chemistry (ISGC 2015), May 3-7, 2015, La Rochelle, France, Abstract PL9. (Invited Plenary Presentation)
902. R. D. Rogers and H. Wang, "Ionic Fluids Containing Both Strongly and Weakly Interacting Ions of the Same Charge Have Unique Ionic and Thus Chemical Environments As a Function of Ion Concentration," Presented by R. D. Rogers before the 227th ECS Meeting (May 24-28, 2015), Chicago, IL, Abstract M04-2158. (Invited Keynote presentation)
903. R. D. Rogers, "Green chemistry and advanced materials from renewable polymers: education, research, and entrepreneurship to motivate the next generation of scientists," Presented by R. D. Rogers before the 98th Canadian Chemistry Conference and Exhibition (June 13-17, 2015), Ottawa, ON, Abstract 1177 PL2. (Invited Plenary Presentation).
904. R. D. Rogers, "Is 'Sustainability' a new paradigm for the future chemical industry? Cross border perspectives and what we need to train the next generation to face," Presented by R. D. Rogers before the 98th Canadian Chemistry Conference and Exhibition (June 13-17, 2015) CIC Chair's Event: CIC/CGCEN Business Innovation Session, Ottawa, ON, Abstract. (Invited Presentation).
905. H. Passos, T. B. V. Dinis, A. M. Fernandes, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "Ionic liquids as phase-forming components of aqueous multiphasic systems," Presented by H. Passos before the 6th International Congress on Ionic Liquids (COIL-6; Jun. 16-20, 2015), Jeju City, South Korea, Abstract S28.
906. A. M. Ferreira, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "pH reversible aqueous biphasic systems," presented by A. M. Ferreira before the 6th International Congress on Ionic Liquids (COIL-6; Jun. 16-20, 2015), Jeju City, South Korea, Abstract S42.
907. A. M. Ferreira, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "pH-Driven Reversible Aqueous Biphasic Systems Composed of Ionic Liquids," Presented by J. A. P. Coutinho before the Nineteenth Symposium on Thermophysical Properties (June 21-26, 2015), Boulder, CO, Abstract 2385.
908. J. F. B. Pereira, V. C. Santos-Ebinuma, A. Pessoa, R. D. Rogers, S. P. M. Ventura, M. G. Freire, and J. A. P. Coutinho, "Facing the Complexity of Bioproducts' Purification using PEG-IL-based Aqueous Biphasic Systems: From Antibiotics to L-Asparaginase," Presented by J. F. B. Pereira before the Iberoamerican Meeting on Ionic Liquids - IMIL 2015 (July 2-3 July, 2015), Madrid, Spain, Abstract P13.
909. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources Summer 2015 Working Group Meeting (August 6-7, 2015), College Park, MD (No Abstract).
910. R. M. Hanes, J. L. Shamshina, G. Gurau, T. Di Nardo, P. Berton, S. P. Kelley, and R. D. Rogers, "Uranium-from-Seawater Sorbents from Fishing Industry Waste – Pilot Testing and Financial Analysis," Presented by R. M. Hanes before the DOE-NE Fuel Resources Summer 2015 Working Group Meeting (August 6-7, 2015), College Park, MD (No Abstract).
911. R. D. Rogers and S. P. Kelley, "Covalent, Supramolecular…. Ionic? Using Ionic Liquids to Demonstrate Manipulation of the Ionic Bond; an Underutilized Tool in Crystal Engineering," Presented by R. D. Rogers before the 2nd International Council for Science/International Union of Pure and Applied Chemistry Workshop on Crystal Engineering, (August 30-September 1, 2015), Como, Italy, Abstract Book p. 43. (Invited Expert)
912. R. D. Rogers, "Does the Nature of the Bonding in Double Salt Ionic Liquids "Prove" A Difference Between Ionic Liquids and Molecular Liquids?" Presented by R. D. Rogers before the Joint European Molecular Liquids Group/Japanese Molecular Liquids Group Annual Meeting "Molecular Liquids Meet Ionic Liquids, From Fundamentals to Applications," (Sept. 6-10, 2015), Rostock, Germany, Abstract Book OL p. 16. (Invited Opening Lecture)
913. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers to the American Chemical Society On Campus Symposium at the University of Toronto (September 24, 2015), Toronto, ON, Canada, No Abstract (Invited).
914. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers to the American Chemical Society On Campus Symposium at York University (September 25, 2015), Toronto, ON, Canada, No Abstract (Invited).
915. R. D. Rogers, "Green Chemistry and Sustainable Technology through Innovation," Presented by R. D. Rogers before the Seminar on Exploitation of Residue Generated by Agribusiness Activity Organized by The Centre of Piscicultural Technological Development at Surcolombiano-Acuapez and Corporación Universitaria del Huila-CORHUILA (November 30, 2015), Neiva, Colombia, No Abstract (Invited Opening Lecture – presented via Skype).

916. R. D. Rogers, "ACS *Crystal Growth & Design*: Founding a journal in the cusp of electronic publishing and open access," Presented by R. D. Rogers before the 2015 International Chemical Congress of Pacific Basin Societies, Pacifichem 2015 (Dec. 15-20, 2015), Honolulu, HI, Abstract SCTY 063. (Invited Presentation)
917. G. Gurau, J. L. Shamshina, N. Abdul Faruk Khan, S. P. Kelley, P. Berton, and R. D. Rogers, "Sustainable materials for energy harvesting – how shrimp shell waste and ionic liquids can make an impact on today's society," Presented by G. Gurau before the 2015 International Chemical Congress of Pacific Basin Societies, Pacifichem 2015 (Dec. 15-20, 2015), Honolulu, HI, Abstract SCTY 335.
918. R. D. Rogers, "Green chemistry and advanced materials from renewable polymers: Education, research, and entrepreneurship to motivate the next generation of scientists," Presented by R. D. Rogers before the 2015 International Chemical Congress of Pacific Basin Societies, Pacifichem 2015 (Dec. 15-20, 2015), Honolulu, HI, Abstract SCTY 385. (Invited Presentation)
919. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources Winter 2016 Working Group Meeting (January 14-15, 2016), Oak Ridge National Lab, TN (No Abstract).
920. R. D. Rogers, "Understanding the Interactions of Seawater Ions with Amidoxime through X-Ray Crystallography," Presented by R. D. Rogers before the DOE-NE Fuel Resources Winter 2016 Working Group Meeting (January 14-15, 2016), Oak Ridge National Lab, TN (No Abstract).
921. R. M. Hanes, J. L. Shamshina, Ezinne Achinivu, and R. D. Rogers, "Uranium-from-Seawater Sorbents from Fishing Industry Waste – Pilot Testing and Financial Analysis," Presented by R. M. Hanes before the DOE-NE Fuel Resources Winter 2016 Working Group Meeting (January 14-15, 2016), Oak Ridge National Lab, TN (No Abstract).
922. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Ionic Liquids-Based Technologies?" Presented by R. D. Rogers before the International Symposium on Ionic Liquids (ISOIL_2016; Jan. 21-22, 2016), Mumbai, India, Abstract. (Invited Keynote Presentation)
923. R. D. Rogers, "Why is the Sugar Industry letting 'Big Corn' Drive the Biorefinery? Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers Before the Sugar Processing Research Institute 2016 Conference on The Science and Technology of a Sustainable Sugar Industry (Feb. 21-25, 2016), Walnut Creek, CA, Abstract Book. (Invited Plenary Presentation).
924. S. P. Kelley, G. P. Rachiero, J. Wang, and R. D. Rogers, "Imidazole-2-thiones as liquid sorbents of Hg(0): Thermal behavior, redox chemistry, and loading on solid supports," Presented by R. D. Rogers before the 251st National Meeting of the American Chemical Society (March 13-17, 2016), San Diego, CA, Abstract ENVR 093.
925. J. L. Shamshina, G. Gurau, and R. D. Rogers, "Translational research: From academia to industry. Following the pathway of George Washington Carver," Presented by R. D. Rogers before the 251st National Meeting of the American Chemical Society (March 13-17, 2016), San Diego, CA, Abstract I&EC 054.
926. P. Berton, G. Gurau, J. L. Shamshina, and R. D. Rogers, "In search of green chemistry and sustainability: Polymeric materials based on renewable polymers," Presented by R. D. Rogers before the 251st National Meeting of the American Chemical Society (March 13-17, 2016), San Diego, CA, Abstract I&EC 109.
927. T. Di Nardo, and R. D. Rogers, "Unlocking the true power of ionic liquids: highly functional, environmentally compatible biopolymer platform," Presented by R. D. Rogers before the 1st Middle-Eastern Materials Science Conference (March 22-23, 2016), Abu Dhabi, United Arab Emirates, Abstract. (Invited)
928. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers before the CIC/SCI Canada Green, Clean and Sustainable Chemistry Seminar: Innovation Through Collaboration (April 7, 2016), Toronto, ON, Canada. (Invited)
929. R. D. Rogers, "Green Quest: Resourceful Approaches to Resources," Presented by R. D. Rogers before the 6th Annual Meeting of the Canada Excellence Research Chairs (April 11-12, 2016), Ottawa, ON, Canada.
930. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers before GreenWin's International Conference on Green Chemistry and White Biotechnology (May 12-13, 2016), Gembloux, Belgium, Abstract. (Invited Plenary)
931. R. D. Rogers, "Green chemistry and advanced materials from renewable polymers: Education, research, and entrepreneurship to motivate the next generation of scientists," Presented by video by R. D. Rogers before the 4° Taller Argentino de Ciencias Ambientales (IV TACA, May 18-20, 2016), Buenos Aires, Argentina, Abstract CP-1. (Invited Plenary Presentation)
932. R. D. Rogers, C. A. King, J. L. Shamshina, S. P. Kelley, and G. Gurau, "Ionic Liquids as Material Forms for Active Pharmaceutical Ingredients," Presented by R. D. Rogers before the 99th Canadian Chemistry Conference and Exhibition (June 5-9, 2016), Halifax, NS, Canada, Abstract 01072. (Invited Presentation)
933. R. D. Rogers, G. P. Rachiero, and S. P. Kelley, "Hypergolic Ionic Liquids: A Swiss Army Knife in Fuel and Propellant Applications," Presented by R. D. Rogers before the 99th Canadian Chemistry Conference and Exhibition (June 5-9, 2016), Halifax, NS, Canada, Abstract 01519. (Invited Presentation)
934. R. D. Rogers "Are Ionic Liquids Unique Crystallization Media, or Just Another Pretty Liquid Solvent?," Presented by R. D. Rogers before the Gordon Research Conference on Crystal Engineering (June 26-July 1, 2016), Stowe, VT. (Invited Presentation)
935. P. Berton, G. Gurau, J. L. Shamshina, and R. D. Rogers, "In search of green chemistry and sustainability: Polymeric materials based on renewable polymers," Presented by R. D. Rogers before the 26th EUCHEM Conference on Molten Salts and Ionic Liquids (July 3-8, 2016), Vienna, Austria, Abstract PL-6. (Invited Plenary Presentation)

936. R. D. Rogers, O. Zavgorodnya, J. L. Shamshina, "If We Are Going to Mine the Oceans, Let's Not Make the Same Mistakes Made in Terrestrial Mining," Presented by R. D. Rogers before the International Conference on Seawater Uranium Recovery (July 19-22, 2016), University of Maryland, College Park, MD, Abstract Collection. (Invited Presentation)
937. O. Zavorodnya, J. L. Shamshina, and R D. Rogers, "Electrospun Chitin Nanomats as Sorbents for Extracting Uranium frim Seawater," Presented by O. Zavgorodnya before the International Conference on Seawater Uranium Recovery (July 19-22, 2016), University of Maryland, College Park, MD, Abstract Collection.
938. Y. P. Patil, J. Zhang, and R. D. Rogers, "Structural Investigations of Metal-Sorbent Interactions in Synthetic Models," Presented by Y. P. Patil before the International Conference on Seawater Uranium Recovery (July 19-22, 2016), University of Maryland, College Park, MD, Abstract Collection.
939. R. D. Rogers, "Ionic Liquids in Pharma: Is It Time for Manipulation of the Ionic Bond to Supplant Covalent Modification?" Presented by R. D. Rogers before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME (Invited Speaker).
940. P. Berton and R. Rogers, "Double Salt Ionic Liquids: Exploring the Boundaries towards their Applications in Continuous Pharmaceutical Manufacturing Processes," Presented by P. Berton before the Gordon Research Seminar (August 13-14, 2016), Abstract Poster 1, and the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 4.
941. T. Cutfield, J. L. Shamshina, G. Gurau, L. E. Block, and R. D. Rogers, "Chitinous Beads via Ionic Liquid: Production, Characterization and Potential Applications," Presented by T. Cutfield before the Gordon Research Seminar (August 13-14, 2016), Abstract Poster 3, and the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 12.
942. S. P. Kelley, S. E. Emerson, and R. D. Rogers, "Speciation-Tunable Protic Ionic Liquids based on Amphoteric Azoles and Oxalic Acid," Presented by S. P. Kelley before the the Gordon Research Seminar (August 13-14, 2016), Abstract Poster 6, and Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 25.
943. C. King, P. Berton, J. L. Shamshina, G. Gurau, and R. D. Rogers, "Chitin films from an ionic liquid process: a platform for sustainable high end materials," Presented by C. King before the Gordon Research Seminar (August 13-14, 2016), Abstract Poster 8, and the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 28.
944. R. Kore, P. Uppara, and R. D. Rogers, "Mixed Metal Double Salt Ionic Liquids: Fine Tunable Lewis Acid Catalysts," Presented by R. Kore before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 29.
945. H. Passos, A. M. Fernandes, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "Ionic-liquid-based aqueous multiphasic systems: a new platform for the separation of value-added compounds," Presented by H. Passos before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 45.
946. G. P. Rachiero, S. P. Kelley, H. M. Titi, and R. D. Rogers, "Reactivity of nido-Decaborane in Ionic Liquids: Cage Rearrangements and Two-Electron Reduction by Neat 1-Ethyl-3-Methylimidazolium Acetate," Presented by G. P. Rachiero before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 46.
947. J. L. Shamshina, G. Gurau, and R. D. Rogers, "Pulping of Crustacean Shells using Ionic Liquids: To Extract or Not to Extract," Presented by J. L. Shamshina before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 52.
948. T. P. Vaid and R. D. Rogers, "Ionic Liquids as Reactive Solvents in the Synthesis of Metal-Organic Frameworks," Presented by T. Vaid before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 64.
949. O. Zavgorodnya, J. L. Shamshina, and R. D. Rogers, "Chitin and Chitin-Based Composite Nanomats Electrospun from Room Temperature Ionic Liquids," Presented by O. Zavgorodnya before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 69.
950. J. Zhang, Y. Patil, and R. D. Rogers, "In Search of Ionic Liquids for the Extraction of Hg (II) and Cd (II)," Presented by J. Zhang before the Gordon Research Conference on Ionic Liquids for Future Technologies (August 14-19, 2016), Sunday River Resort, Newry, ME, Abstract Poster 72.
951. R. D. Rogers, "Open Data: What the reader wants to know rather than what the author wants to present," Presented by R. D. Rogers before the 252nd National Meeting of the American Chemical Society (August 21-25, 2016), Philadelphia, PA, Abstract CINF 043.
952. J. L. Shamshina, G. Gurau, and R. D. Rogers, "Can chemists think & work towards sustainability if it means eliminating the chemicals industry?" Presented by R. D. Rogers before the 252nd National Meeting of the American Chemical Society (August 21-25, 2016), Philadelphia, PA, Abstract MPPG 013.
953. R. D. Rogers, "From radiochemistry to ionic liquids and beyond: Lessons from Phil on separations and life," Presented by R. D. Rogers before the 252nd National Meeting of the American Chemical Society (August 21-25, 2016), Philadelphia, PA, Abstract NUCL 042.
954. H. Wang, P. Berton, A. S. Myeron, and R. D. Rogers, "Double Salt Ionic Liquids Containing the Trihexyl(tetradecyl)phosphonium Cation: The Ability to Tune the Solubility of Aromatics, Ethers, and Lipophilic

Compounds," Presented by R. D. Rogers before the Pacific Rim Meeting on Electrochemical and Solid-State Science (PRIME 2016; October 2-7, 2016), Honolulu, HI, Abstract L02 3505. (Invited Keynote Presentation)

955. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers before the Workshop on Insights and Strategies Towards a Bio-Based Economy (November 22-25, 2016), Montevideo, Uruguay, Abstract. (Keynote Presentation)
956. R. D. Rogers, "Understanding the Interactions of Seawater Ions with Amidoxime through X-Ray Crystallography," Presented by R. D. Rogers before the DOE-NE Fuel Resources Winter 2017 Working Group Meeting (January 12-13, 2017), Tampa, FL (No Abstract).
957. R. D. Rogers, What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology? Presented by R. D. Rogers before the Iberoamerican Meeting on Ionic Liquids (IMIL) (April 5-7, 2017), Santos, São Paulo, Brazil, Abstract PL-01. (Invited Plenary Opening Lecture)
958. R. D. Rogers, G. P. Rachiero, H. M. Titi, and S. P. Kelley, "Azole-Functionalized Boranes: Bringing the Tunability of Ionic Liquids to Molecular Systems," Presented by G. P. Rachiero before the 100th Canadian Chemistry Conference and Exhibition (May 28-June 1, 2017), Toronto, Canada, Abstract 0878. (Invited)
959. R. D. Rogers, J. L. Shamshina, and P. Berton, "Can Ionic Liquids be Disruptive Enough to Save the World?" Presented by P. Berton before the 100th Canadian Chemistry Conference and Exhibition (May 28-June 1, 2017), Toronto, Canada, Abstract 2670. (Invited)
960. G. P. Rachiero, H. M. Titi, and R. D. Rogers, "Versatility and Remarkable Hypergolicity of Exo-6, Exo-9 Imidazole-substituted Nido-Decaborane," Presented by G. P. Rachiero before the 100th Canadian Chemistry Conference and Exhibition (May 28-June 1, 2017), Toronto, Canada, Abstract 1359.
961. O. Zavgorodnya, J. L. Shamshina, and R. D. Rogers "Electrospinning of Biopolymers and Biopolymeric Composites from Ionic Liquids", Presented by O. Zavgorodnya before the 254th ACS National Meeting (August 20-24, 2017**),** Washington DC, Abstract POLY 504.
962. M. K. Mishra, S. P. Kelley, R. D. Rogers, "Crystallographic analysis of ionic liquids." Presented by M. Mishra before the 24th Congress and General Assembly of the International Union of Crystallography (August 21-28, 2017), Hyderabad, India, Abstract 289. (Mishra, M. K.; Kelley, S. P.; Rogers, R. D. *Acta Cryst.* **2017**, *A73*, C407.)
963. R. D. Rogers and G. Gurau, "Advanced biodegradable/biorenewable sorbents for uranium extraction from seawater," Presented by R. D. Rogers before the 255th ACS National Meeting (March 18-22, 2018), New Orleans, LA, Abstract ANYL 261.
964. R. D. Rogers, "Azole-functionalized boranes: bringing the tunability of ionic liquids to molecular systems," Presented by R. D. Rogers before the 255th ACS National Meeting (March 18-22, 2018), New Orleans, LA, Abstract PHYS 24.
965. R. D. Rogers, "Can Renewable Resources Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers before the 2nd Advances on Green Chemistry Conference (AGC2018; April 16-19, 2018), Poznan, Poland, Abstract Book, p 20. (Invited Keynote Lecture)
966. R. D. Rogers, "Can Renewable Resources Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers before the 3rd PATH Workshop (June 8, 2018), Aveiro, Portugal, Abstract Book p 5. (Invited Plenary Presentation)
967. Z. Ahmadi, P. Berton, R. D. Rogers, and S. L. Bryant, "Using Ionic Liquids for Dewateration of Mature Fine Tailings (MFTs)," Presented by Z. Ahmadi before the Global Petroleum Show (June 11-13, 2018), Calgary, Canada. Abstract GPS18-235.
968. E. Abdelfatah, P. Berton, R. D. Rogers, and S. L. Bryant, "Low-Temperature In Situ Extraction of Bitumen from Oilsands," Presented by E. Abdelfatah before the Global Petroleum Show (June 11-13, 2018), Calgary, Canada. Abstract GPS18-307.
969. R. D. Rogers, "Can Advanced Materials from Renewable Resources Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers before the 7th Chinese Academy of Sciences (CAS)-The World Academy of Sciences for the Advancement of Science in Developing Countries (TWAS) Symposium on Green Technology (July 22-25, 2018), Beijing, China, Abstract P-1, p. 2. (Invited Plenary Presentation)
970. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design* and Contentious Issues arising During Peer Review: An Editor's Perspective," Presented by R. D. Rogers before the ACS Publications Symposium Innovation in Materials Science (July 29-31, 2018), Shanghai, China, Abstract Book p 47. (Invited Panelist)
971. R. D. Rogers, "Panel Discussion: Finding a Scientific Career in Academia, Government Research and Industry," Presented by R. D. Rogers before the Gordon Research Seminar on Ionic Liquids (August 11-12, 2018), Sunday River Resort, Newry, ME, No Abstract. (Invited Panelist)
972. P. Berton, E. Abdelfatah, Z. Ahmani, R. D. Rogers, and S. L. Bryant. "Ionic Liquids: Greening the Oil Sands Extraction Process," Presented by P. Berton before the Gordon Research Conference on Ionic Liquids (August 12-18, 2018), Sunday River Resort, Newry, ME, Abstract Poster 6.
973. H. Choudhary and R. D. Rogers. "Neutral molecules in oligomeric ionic liquids: There's always a limit to the number!," Presented by H. Choudhary before the Gordon Research Conference on Ionic Liquids (August 12-17, 2018), Sunday River Resort, Newry, ME, Abstract Poster 9.
974. N. Delgado-Mellado, M. Larriba, P. Navarro, M. Ayuso, H. Choudhary, G. Gurau, J. García, F. Rodríguez, and R. D. Rogers. "The Relationship between Aromatic hydrocarbon solubility in ionic liquids and liquid clathrate formation," Presented by N. Delgado-Mellado before the Gordon Research Conference on Ionic Liquids (August 12-17, 2018), Sunday River Resort, Newry, ME, Abstract Poster 13.

975. R. D. Rogers and G. Gurau, "Using ionic liquids to take advantage of the many facets of chitin: Tailor-made high surface area nanofibrous sorbent mats for selective separations of metal ions," Presented by R. D. Rogers before the 256th ACS National Meeting (August 19-23, 2018), Boston, MA, Abstract COLL 9. (Invited Presentation)
976. R. D. Rogers, "Ionic liquid platform for electrospinning biopolymers," Presented by R. D. Rogers before the 256th ACS National Meeting (August 19-23, 2018), Boston, MA, Abstract POLY 151. (Invited Presentation)
977. R. D. Rogers, "What is an appropriate academic business model to drive commercialization of sustainable technology?" Presented by R. D. Rogers before the 256th ACS National Meeting (August 19-23, 2018), Boston, MA, Abstract YCC 14. (Invited Presentation)
978. P. Julien, H. M. Titi,, T. Friscic, and R. D. Rogers, "The design and synthesis of optically active coordination polymers and metal organic frameworks," Presented by P. Julien before the 256th ACS National Meeting (August 19-23, 2018), Boston, MA, Abstract INORG 243.
979. R. D. Rogers, "Can Ionic Liquids Enable Advanced Materials from Renewable Resources to Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers before the 21st International Symposium on Molten Salts and Ionic Liquids part of the 2018 ECS and SMEQ Joint International Meeting of the 234th Meeting of the Electrochemical Society and the XXXIII Congreso de la Sociedad Mexicana de Electroquímica (September 30-October 4, 2018), Cancun, Mexico, Abstract 1862. (Invited Award Presentation)
980. G. Gurau and R. D. Rogers, "Which Part of a Shrimp Has More Economic Value, the Shell or the Meat?" Presented by G. Gurau before the 21st International Symposium on Molten Salts and Ionic Liquids part of the 2018 ECS and SMEQ Joint International Meeting of the 234th Meeting of the Electrochemical Society and the XXXIII Congreso de la Sociedad Mexicana de Electroquímica (September 30-October 4, 2018), Cancun, Mexico, Abstract 1864.
981. R. D. Rogers, "From Liquid Clathrates to Ionic Liquids and Back Again. Was Anything Learned on the Journey?" Presented by R. D. Rogers before the 21st International Symposium on Molten Salts and Ionic Liquids part of the 2018 ECS and SMEQ Joint International Meeting of the 234th Meeting of the Electrochemical Society and the XXXIII Congreso de la Sociedad Mexicana de Electroquímica (September 30-October 4, 2018), Cancun, Mexico, Abstract 1875. (Invited Award Lecture)
982. K. R. Di Bona, C. M. Hill, G. Gurau, and R. D. Rogers, "Separation and Recovery of Rare Earth Elements from Coal using Ionic Liquids," Presented by K. R. Di Bona before the 20th Symposium on Separation Science and Technology for Energy Applications (Oct. 21–24, 2018), Gatlinburg, TN, Abstract Book p. 15.
983. R. D. Rogers, G. Gurau, and H. Choudhary, "Ionic Liquids Access to Unique Actinide Coordination Environments: From Seawater Extraction to Molten Salt Reactors," Presented by R. D. Rogers before the 20th Symposium on Separation Science and Technology for Energy Applications (Oct. 21–24, 2018), Gatlinburg, TN, Abstract Book p. 36.
984. G. Gurau, J. L. Shamshina, and R. D. Rogers, "Uranium from Seawater Extraction to Commercial Chitin Extraction," Presented by G. Gurau before the 20th Symposium on Separation Science and Technology for Energy Applications (Oct. 21–24, 2018), Gatlinburg, TN, Abstract Book p. 40.
985. R. D. Rogers, "Green Chemistry as a Business Model: Is It Sustainable?" Presented by R. D. Rogers before the 257th ACS National Meeting (March 31-April 4, 2019), Orlando, FL, Abstract SCHB 23.
986. R. D. Rogers, "The Role of Separations in Sustainability," Presented by R. D. Rogers before the 257th ACS National Meeting (March 31-April 4, 2019), Orlando, FL, Abstract I&EC 1.
987. K. R. Di Bona, C. M. Hill, G. Gurau, and R. D. Rogers, "Ionic liquid processes for the extraction of rare earth elements from coal," Presented by K. R. Di Bona before the 257th ACS National Meeting (March 31-April 4, 2019), Orlando, FL, Abstract I&EC 69.
988. R. D. Rogers, "Exploring the Nature of f-Element Soft Donor Interactions Using Electronically Tunable Azolate Ionic Liquids," Presented by R. D. Rogers before the US Department of Energy Basic Energy Sciences Heavy Element Chemistry Principal Investigators' Meeting (HEC2019, April 15-17, 2019), Gaithersburg, MD, Abstract.
989. K. R. Di Bona, G. Gurau, and R. D. Rogers, "Ionic Liquids as Advanced Solvents for the Extraction of Rare Earth Elements from Coal Products," Presented by K. R. Di Bona before the National Energy Technology Laboratory 2019 Project Review Meeting for Crosscutting Research, Rare Earth Elements, Gasification Systems, and Transformative Power Generation (April 9-11, 2019), Pittsburgh, PA (No Abstract).
990. R. D. Rogers and G. Gurau, "Combining Ionic Liquids and Green Chemistry as a Business Model" Presented by R. D. Rogers before the 8th International Congress on Ionic Liquids (COIL8, May 13-17, 2019), Beijing, China, Abstract PL-01. (Invited Plenary Presentation)
991. G. Gurau and R. D. Rogers, "Combining Ionic Liquids and Green Chemistry as a Business Model" Presented by G. Gurau before the 8th International Congress on Ionic Liquids (COIL8, May 13-17, 2019), Beijing, China, Abstract KL-09. (Invited Keynote Presentation)
992. R. D. Rogers, "Dehydrating f-Element Salt Hydrates with Ionic Liquids and Using the Anhydrous Salts as Labile Intermediates for Bench top N-Donor Chemistry," Presented by R. D. Rogers before XXIX. Tage der Seltenen Erden, Terrae Rarae 2019 (May 30-June 1, 2019), Stockholm, Sweden, Abstract http://www.terrae-rarae.org/wp-content/uploads/2019/05/Terrae-Rarae-2019-Book-of-Abstracts.pdf (Last Accessed 06-02-19). (Invited).
993. R. S. Stein, C. King, I. Huskic, H. M. Titi, J. L. Shamshina, T. Friscic, and R. D. Rogers, "Applying recent cross-polarization techniques," Presented by R. S. Stein before the 102nd Canadian Chemistry Conference and Exhibition (CCCE2019; June 3-7, 2019), Quebec City, QC, Canada, Abstract 2039.

994. H. M. Titi, J. M. Marrett, G. M. Dayaker, M. Arhangelskis, T. Friscic, and R. D. Rogers, "Towards new, safer and greener hypergolic fuels for aerospace applications," Presented by H. M. Titi before the 102nd Canadian Chemistry Conference and Exhibition (CCCE2019; June 3-7, 2019), Quebec City, QC, Canada, Abstract 2112.
995. C. Mottillo, H. M. Titi, J. M. Marrett, A. Katsenis, C.-J. Li, R. D. Rogers, and T. Friscic, "Innovation in metal-organic framework manufacture: from greener synthesis to new-generation materials," Presented by C. Motillo before the 102nd Canadian Chemistry Conference and Exhibition (CCCE2019; June 3-7, 2019), Quebec City, QC, Canada, Abstract 2282.
996. J. M. Marrett, H. M. Titi, C. Mottillo, G. M. Dayaker, C.-J. Li, R. D. Rogers, and T. Friscic, "New Methods for the Discovery and Synthesis of Functional Metal-Organic Frameworks,´ Presented by J. M. Marrett before the 102nd Canadian Chemistry Conference and Exhibition (CCCE2019; June 3-7, 2019), Quebec City, QC, Canada, Abstract 2119.
997. R. D. Rogers, "Green Chemistry as a Business Model," Presented by R. D. Rogers before the before the 2019 Wallenberg Wood Science Center Workshop (June 11-13, 2019), Djurönäset, Stockholm, Sweden. (Invited).
998. C. Mottillo, H. M. Titi, J. M. Marrett, A. Trumpour, A. Sokoloff, T. Friščić , and R. D. Rogers, "Next-generation solid propellants as greener alternatives for in-space propulsion," Presented by C. Mottillo before the 19th Astronautics Conference of the Canadian Aeronautics and Space Institute (ASTRO 2019, June 17-19, 2019), Laval, QC Canada.
999. R. D. Rogers. "A Biorefinery Should Produce More than Just Chemicals and Be Based on More than Just Lignocellulosics: How Ionic Liquids Are Transformational in This Context," Presented by R. D. Rogers before the Gordon Research Conference on Biomass to Biobased Chemicals and Materials (July 14-19, 2019), Jordan Hotel at Sunday River, Newry, ME. (Invited Presentation).
1000. K. R. Di Bona, G. Gurau, C. M. Hill, and R. D. Rogers, "Ionic Liquid Processing of Wyoming Coal for Acid-free Rare Earth Element Extraction," Presented by K. R. Di Bona before the 258th ACS National Meeting (August 25-29, 2019), San Diego, CA, Abstract SCHB 0026.
1001. R. D. Rogers, "A Biorefinery Should Produce More than Just Chemicals and Be Based on More than Just Lignocellulosics: How Ionic Liquids Are Transformational in This Context," Presented by R. D. Rogers before the before the Sustainable Materials and Processes Symposium (December 20, 2019), Technical University of Denmark, Lyngby, Denmark, No Abstract.
1002. R. D. Rogers, "A Sustainability Future Requires Sustainable Innovation," Presented by R. D. Rogers before the before the Green and Sustainable Chemistry Symposium (February 13, 2020), Stockholm University, Stockholm, Sweden, No Abstract.
1003. R. D. Rogers. "Extraction of Chitin from Natural Resources," Presented by R. D. Rogers before the 6th Iberoamerican Meeting on Ionic Liquids (IML2020, https://imil2020chile.cl/, May 23-26, 2021), Santiago, Chile via Webinar (January 28, 2021), No Abstract. (Invited Plenary Presentation).
1004. H. B. Wineinger, R. D. Rogers, and J. L. Shamshina, "Biopolymers as Plastic Alternatives: New Method for the Determination of Molecular Weight," Presented by J. L. Shamshina before the 261st ACS National Meeting (April 5-30, 2021), Virtual, Abstract number 3557316.
1005. H. B. Wineinger, R. D. Rogers, and J. L. Shamshina, "Biopolymers as Plastic Alternatives: An Ionic Liquid Strategy to Increase Chitin Yield per Animal while Controlling Molecular Weight," Presented by J. L. Shamshina before the 25th Annual Green Chemistry & Engineering Conference (June 14-18, 2021), Virtual, Abstract 3565944.
1006. R. D. Rogers. "Extraction of Chitin from Natural Resources," Presented by R. D. Rogers before the 7th Asia-Pacific Conference on Ionic Liquids and Green Processes (APCIL-7, http://apcil-7.csp.escience.cn/dct/page/1, April 23-25, 2021), Suzhou, China via Webinar (April 24, 2021), No Abstract. (Invited Plenary Presentation).
1007. P. Berton, R. D. Rogers, and S. L. Bryant, "Design of Ionic Liquids to "Green" Super Heavy Oil Production," Presented by P. Berton before the 6th Iberoamerican Meeting on Ionic Liquids (IML2020, https://imil2020chile.cl/, May 24-26, 2021), Santiago, Chile, via Webinar, Abstract RP28.
1008. R. D. Rogers, "Old and New Uses of Aqueous Biphasic Partitioning You Likely Don't Know About: Radiopharmaceutical Generators to Biomass Processing," Presented by R. D. Rogers before the Biopartitioning & Purification Conference (BPP2022, https://bpp2022.web.ua.pt/, September 25-28, 2022), Aveiro, Portugal, No Abstract. (Invited Plenary Presentation).
1009. R. D. Rogers, "Roadmap to Scaleup of Ionic Liquid Biomass Extraction Including Roadblocks, Detours, and Areas Under Construction," Presented by R. D. Rogers before the 5th International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; https://www.elsevier.com/events/conferences/international-conference-on-ionic-liquids-in-separation-and-purification-technology, February 5-8, 2023), Scottsdale, AZ, Abstract PL.01 (Invited Plenary Presentation).
1010. R. D. Rogers, "What I learned in school with Jerry Atwood: Giving meaning to inorganic chemistry, liquid clathrates, crystallography, ionic liquids, and life in general," Presented by R. D. Rogers before the Spring 2023 National Meeting of the American Chemical Society (March 26-30, 2023), Indianapolis, IN, Abstract INOR 3808317 (Invited Presentation).
1011. R. D. Rogers, "Exploring the Nature of f-Element Soft Donor Interactions Using Electronically Tunable Azolate Ionic Liquids," Presented by R. D. Rogers before the DOE Basic Energy Sciences Heavy Elements Contractors Meeting (April 24-26, 2023), Rockville, MD, Abstract.
1012. R. D. Rogers, "Trapping Unexpected/Unprecedented Hexanuclear Ce(III) Hydrolysis Products with Neutral 4-Amino-1,2,4-triazole: Mechanistic Information on Pu Colloid Formation?," Presented by R. D. Rogers before the 46th Actinide Separations Conference (May 16-18, 2023), Idaho Falls, ID, Abstract Book p 85.
1013. R. D. Rogers, "The Next Challenges of Biorefineries: Roadblocks, Detours, and Areas Under Construction," Presented by R. D. Rogers before the 3rd BioSPRINT Workshop and 2nd Bilateral Workshop Portugal – Slovenia (June 14-15, 2023), Ljubljana, Slovenia, Abstract Book (ISBN 978-961-6104-86-9) p 17 (Invited Plenary Presentation).

1014. R. D. Rogers, "Solution processing of terrestrial and marine biopolymers can overtake melt processing of plastics and lead to more sustainable materials," Presented by R. D. Rogers before the 38th International IUPAC Conference on Solution Chemistry (38ICSC, July 9-14, 2023), Belgrade, Serbia, Abstract PL6 (Invited Plenary Presentation).

D. Presentations before Regional Meetings:

1. R. D. Rogers and J. L. Atwood, "The Crystal Structure of $Cu[P(C_6H_5)_2CH_3]_3BH_4$," Presented by R. D. Rogers before the Southeast Regional American Chemical Society Student Affiliate Meeting (1977), University, AL, Abstract 20.
2. R. D. Rogers, W. E. Hunter, and J. L. Atwood, "The Crystal and Molecular Structure of $Mo[CH_2Si(CH_3)_3]_3[P(CH_3)_3]Cl$," Presented by R. D. Rogers before the 29th Southeast Regional ACS Meeting (1977), Tampa, FL, Abstract 348.
3. W. E. Hunter, R. D. Rogers, and J. L. Atwood, "The Lanthanide-Carbon Sigma Bond in $Li[Yb\{CH(SiMe_3)_3\}_3C1]$," Presented by W. E. Hunter before the 29th Southeast Regional ACS Meeting (1977), Tampa, FL, Abstract 350.
4. R. D. Rogers, J. L. Atwood, and R. Gruning, "Synthesis and X-ray Structure Determination of N-Lithiohexamethyldisilazane - Bulky Ligand Effects," Presented by R. D. Rogers before the Annual Meeting of the Alabama Academy of Science (1978), Montgomery, AL, Abstract.
5. P. A. Grutsch, C. Kutal, J. L. Atwood, and R. D. Rogers, "Structure of a Copper(I) Compound Containing the Tetrahydroborate Group," Presented by P. A. Grutsch before the 30th Southeast Regional ACS Meeting (1978), Savannah, GA, Abstract 139.
6. R. D. Rogers, W. J. Cook, and J. L. Atwood, "The Synthesis and Crystal Structure of $(\eta^5\text{-}C_5H_5)Fe[\eta^5\text{-}C_5H_4Al_2(CH_3)_4Cl]$," Presented by R. D. Rogers before the 30th Southeast Regional ACS Meeting (1978), Savannah, GA, Abstract 171.
7. R. D. Rogers, W. E. Hunter, and J. L Atwood, "Crystallographic Examination of the Zirconium-Carbonyl Bond in $(\eta^5\text{-}C_5H_5)_2Zr(CO)_2$," Presented by R. D. Rogers before the 31st Southeast Regional ACS Meeting (1979), Roanoke, VA, Abstract 185.
8. M. S. Dalton, R. D. Rogers, and J. L. Atwood, "X-ray Crystal Structure of $ReBr(CO)_3(Me_2NH)_2$," Presented by M. S. Dalton before the 31st Southeast Regional ACS Meeting (1979), Roanoke, VA, Abstract 188.
9. E. A. Lewis, R. Rogers, and J. L. Atwood, "Thermodynamic Studies of Liquid Clathrate Formation and Coal Liquefaction with Liquid Clathrates," Presented by E. A. Lewis before the 31st Southeast Regional ACS Meeting (1979), Roanoke, VA, Abstract 331.
10. M. S. Dalton, R. D. Rogers, L. D. Kispert, and J. L. Atwood, "The Crystal and Molecular Structure of Bromoflouroacetic Acid, A Chiral Hydrogen Bonded Dimer," Presented by M. S. Dalton before the Annual Meeting of the Alabama Academy of Science (1980), Birmingham, AL, Abstract *Journal of the Alabama Academy of Science*, **51(3)**, 199 (1980).
11. L. G. Canada, R. D. Rogers, and J. L. Atwood, "The Application of X-ray Crystallography to the Pesticide Aldrin and Related Compounds," Presented by L. G. Canada before the Annual Meeting of the Alabama Academy of Science (1980), Birmingham, AL, Abstract *Journal of the Alabama Academy of Science*, **51(3)**, 196 (1980).
12. R. D. Rogers and J. L. Atwood, "A Comparison of Mo-Ligand (η^2-) Bonding in $MoCl(\eta^2\text{-}COCH_2SiMe_3)(CO)(PMe_3)_3$ and $Mo(\eta^2\text{-}C_2H_4)_2(PMe_3)_4$," Presented by R. D. Rogers before the 28th Southeast/32nd Southwest Regional ACS Meeting (1980), New Orleans, LA, Abstract 232.
13. F. R. Anderson, R. D. Rogers, and J. L. Atwood, "Crystal and Molecular Structure of 7-Aminothiozolo[5,4-d]pyrimidine-6-oxide," Presented by F. R. Anderson before the 32nd Southeast/28th Southwest Regional ACS Meeting (1980), New Orleans, LA, Abstract 303.
14. L. G. Canada, R. D. Rogers, and J. L. Atwood, "Crystal and Molecular Structure of $Mn_2(CO)_6Br_2Te_2Ph_2$," Presented by L. G. Canada before the Annual Meeting of the Alabama Academy of Science (1981), Auburn, AL, Abstract.
15. R. D. Rogers, C. R. Kerr, M. J. Zaworotko, and J. L. Atwood, "Decomposition of High-Oxygen Content Organoaluminum Compounds: Identification and Characterization of Products," Presented by R. D. Rogers before the 37th Southwest Regional ACS Meeting (1981), San Antonio, TX, Abstract 96.
16. L. G. Canada, R. Priester, R. D. Rogers, and J. L. Atwood, "Complexes of Crown Ethers with Aluminum Alkyls," Presented by L. G. Canada before the 34th Southeast Regional ACS Meeting (1982), Birmingham, AL, Abstract 280.
17. R. D. Rogers, "Crystal and Molecular Structures of Formyl-, Cyano-, and Amino-Cyclopentadienyldicarbonylnitrosylchromium," Presented by R. D. Rogers before the 3rd Joint Great Lakes and Central Regional ACS Meeting (1984), Kalamazoo, MI, Abstract 208.
18. L. K. Kurihara and R. D. Rogers, "Crown Ether Complexation of f-Elements," Presented by L. K. Kurihara before the 19th Great Lakes Regional ACS Meeting (1985), Lafayette, IN, Abstract 191.
19. M. M. Benning and R. D. Rogers, "Crystal and Molecular Structures of (η^5-Pentamethylcyclopentadienyl)(η^5-cyclopentadienyl)dichlorotitanium, -zirconium and -hafnium," Presented by M. M. Benning before the 19th Great Lakes Regional ACS Meeting (1985), Lafayette, IN, Abstract 193.
20. R. D. Rogers, "Structural Chemistry of Mixed Sandwich Compounds: $(\eta^5\text{-}C_5Me_5)(\eta^8\text{-}C_8H_8)Ti$ and $(\eta^5\text{-}C_5Me_5)(\eta^7\text{-}C_7H_7)Ti$," Presented by R. D. Rogers before the 19th Great Lakes Regional ACS Meeting (1985), Lafayette, IN, Abstract 192.
21. E. J. Voss and R. D. Rogers, "X-ray Structure of $(\eta^5, \eta^5\text{-}C_{10}H_8)[Rh(CO)_2]_2$," Presented by E. J. Voss before the Thirty-Seventh Annual Undergraduate Research Symposium (1986), Abbott Park, IL, Abstract.
22. R. D. Rogers and L. K. Kurihara, "f-Element/Crown Ether Complexation-Structural Effects of Hydrogen Bonding," Presented by R. D. Rogers before the 20th Great Lakes Regional ACS Meeting (1986), Milwaukee, WI, Abstract 201.
23. L. K. Kurihara and R. D. Rogers, "f-Element/Crown Ether Complexation- Synthesis and Structures," Presented by L. K. Kurihara before the 20th Great Lakes Regional ACS Meeting (1986), Milwaukee, WI, Abstract 200.
24. M. M. Benning and R. D. Rogers, "Crystal Structures of $(\eta^5\text{-}C_5Me_5)M(\eta^7\text{-}C_7H_7)$ (M=Zr, Hf) and $(\eta^5\text{-}C_5Me_5)Zr(\eta^8\text{-}C_8H_8)$," Presented by M. M. Benning before the 20th Great Lakes Regional ACS Meeting (1986), Milwaukee, WI, Abstract 199.

25. E. J. Voss and R. D. Rogers, "f-Element/Crown Ether Complexes. The Exclusion of H_2O from the Metal Ion's Coordination Sphere," Presented by E. J. Voss before the 21st Great Lakes Regional ACS Meeting; Thirty-Eighth Annual Undergraduate Research Symposium (1987), Chicago, IL, Abstract.
26. M. M. Benning and R. D. Rogers, "f-Element/Crown Ether Complexes. Synthetic and Structural Survey of UCl_4 Complexes of Common Crown Ethers," Presented by M. M. Benning before the 21st Great Lakes Regional ACS Meeting (1987), Chicago, IL, Abstract 215.
27. R. D. Rogers, "f-Element/Crown Ether Complexes. Structural Effects of Anion Concentration," Presented by R. D. Rogers before the 21st Great Lakes Regional ACS Meeting (1987), Chicago, IL, Abstract 216.
28. A. H. Bond and R. D. Rogers, "Macrocycle Complexation Chemistry. Complexation and Structural Characterization of Biochemically Toxic Metals," Presented by A. H. Bond before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 031.
29. L. Nunez and R. D. Rogers, "Macrocycle Complexation Chemistry. The Crystal Structure of A Cu(I) Thiacrown Polymer, $[CuCl(18\text{-thiacrown-}6)]_n$," Presented by L. Nunez before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 054.
30. R. F. Henry and R. D. Rogers, "Acyclic Mixed Donor Crown Ether Analogs. Synthesis and Characterization of Lanthanide Complexes of Polyethylene Glycols Containing Sulfur," Presented by R. F. Henry before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 053.
31. R. D. Rogers, "The Effects of Anion Concentration on Crystallization of Lanthanide Chloride Polyethylene Glycol Complexes," Presented by R. D. Rogers before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 052.
32. A. H. Bond and R. D. Rogers, "Macrocycle Complexation Chemistry. 12-crown-4, 15-crown-5, and 18-crown-6 Complexes of Biochemically Toxic Metals," Presented by A. H. Bond before the 40th Annual Undergraduate Symposium (1989, Chicago Section ACS), Libertyville, IL, Abstract.
33. M. M. Witt and R. D. Rogers, "Macrocycle Complexation Chemistry. Six Donor (Pentaethylene Glycol) and Seven Donor (Hexaethylene Glycol) Acyclic Crown Ether Analogs as Dehydrating Agents for Lanthanoid Salts?" Presented by M. M. Witt before the 40th Annual Undergraduate Symposium (1989, Chicago Section ACS), Libertyville, IL, Abstract.
34. H. D. Do, J. R. Peterson, and R. D. Rogers, "Synthetic Approaches Toward Anticancer Lignan Lactones," Presented by H. D. Do before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 185.
35. T. J. Smillie, J. R. Peterson, R. D. Rogers, and T. P. Conway, "Lignan Derivatives as Potential Platelet Activating Factor Antagonists," Presented by T. J. Smillie before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 244.
36. A. N. Rollins and R. D. Rogers, "Macrocycle Complexation Chemistry. Structural Effects of Changing Anion and Anion Concentration in Complexes of Lanthanide(III) Ions and Crown Ethers," Presented by A. N. Rollins before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 139.
37. L. Nunez and R. D. Rogers, "Modification of the Lanthanide Ion Coordination Sphere Via Electrocrystallization of Hydrated Lanthanide Chloride Complexes of 12-Crown-4," Presented by L. Nunez before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 122.
38. R. F. Henry and R. D. Rogers, "Wrapping the Lanthanide Ion Coordination Sphere. A Study of Polyethylene Glycol Complexes with Four to Eight Donor Atoms," Presented by R. F. Henry before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 130.
39. A. H. Bond and R. D. Rogers, "Crystallographic Studies of Potential Macrocyclic Extractants for Cd," Presented by A. H. Bond before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 138.
40. J. Wolff, A. H. Bond, and R. D. Rogers, "Macrocyclic Complexation Chemistry. Four, Five, Six and Seven Donor Polyethylene Glycols as Acyclic Crown Ether-Like Complexing Agents of Mercury," Presented by J. Wolff before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 236.
41. K. C. Sturge, R. D. Rogers, and M. J. Zaworotko, "Reactivity of Iron(II) Mixed Sandwich Complexes Towards Nucleophiles," Presented by K. C. Sturge before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 110.
42. S. Christie, M. J. Zaworotko, and R. D. Rogers, "Synthesis and Characterization of Oxybenzoate Metal Complexes," Presented by S. Christie before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 235.
43. T. J. Smillie, J. R. Peterson, R. D. Rogers, and T. P. Conway, "Lignan Derivatives as Potential Platelet Activating Factor Antagonists," Presented by T. J. Smillie before the 17th MALTO Medicinal Chemistry-Pharmacognosy Meeting (1990), Oklahoma City, OK.
44. A. H. Bond and R. D. Rogers, "Macrocyclic Complexation Chemistry of the Environmentally Toxic Metals," Presented by A. H. Bond before the 13th Mid-West Environmental Chemistry Workshop (1990), Urbana, IL, Abstract 21.
45. R. D. Rogers, "Investigation of Macrocyclic and Polyfunctional Acyclic Chelating Agents in the Development of Improved f-Element Extractants," Presented by R. D. Rogers before the 13th Mid-West Environmental Chemistry Workshop (1990), Urbana, IL, Abstract 20.
46. A. H. Bond and R. D. Rogers, "Synthetic and Crystallographic Studies of Novel Crown Ether and Polyethylene Glycol Complexes of Bi^{3+}," Presented by Andrew H. Bond before the Argonne Undergraduate Symposium (1990), Argonne, IL, Abstract 91.
47. S. E. Huggins, A. H. Bond, A. N. Rollins, and R. D. Rogers, "Crystallographic Investigations of Polymer Crown-Ether Model Compounds," Presented by S. E. Huggins before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991), Indianapolis, IN, Abstract 301.

48. A. H. Bond and R. D. Rogers, "Crystallographic Investigations of Crown Ether and Polyethylene Glycol Complexes of Pb^{2+}," Presented by A. H. Bond before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991) Indianapolis, IN, Abstract 302.
49. A. N. Rollins and R. D. Rogers, "Complexation of Mixtures of Hydrated Lanthanum Chloride with Other Hydrated Lanthanide Chloride Salts and 18-Crown-6," Presented by A. N. Rollins before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991), Indianapolis, IN, Abstract 303.
50. R. D. Rogers and A. H. Bond, "Evidence of a Stereochemically Active Lone Pair in the Complexation Chemistry of Bismuth(III) Halides with Crown Ethers and Polyethylene Glycols," Presented by R. D. Rogers before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991), Indianapolis, IN, Abstract 304.
51. A. H. Bond and R. D. Rogers, "Extraction of Bi^{+3} Using Polyethylene Glycol Based Aqueous Biphase Systems," Presented by A. H. Bond before the Amoco/University Poster Session (1991), Naperville, IL.
52. C. B. Bauer, R. D. Rogers, and A. H. Bond, "Aqueous Biphasic Systems for Liquid/Liquid Extraction of Americium, Plutonium, Thorium, and Uranium from Sulfate and Carbonate Media," Presented by C. B. Bauer before the Amoco/University Poster Session (1991), Naperville, IL.
53. Y. Song and R. D. Rogers, "The Investigation of Polyethylene Glycol-Based Aqueous Biphasic Systems for the Extraction of Transition Metal Ions," Presented by Y. Song before the Amoco/University Poster Session (1993), Naperville, IL, Abstract C68.
54. M. W. Brechbiel, O. A. Gansow, C. G. Pippin, R. P. Planalp, and R. D. Rogers, "Synthesis of Polyamino Carboxylate Chelating Agents and X-ray Structural Analysis of Metal Complexes," Presented by R. P. Planalp before the 29th ACS Middle Atlantic Regional Meeting (1995), Washington, DC, Abstract 191.
55. A. H. Bond, C. M. Tomasek, M. J. Gula, F. Chang, E. P. Horwitz, and R. D. Rogers "Concentration, Purification, and Recycle of Dyes from Salt Solutions," Presented by A. H. Bond before the American Association of Textile and Color Chemists/Northern Textile Association 33rd New England Regional Technical Conference (1997), Danvers, MA.
56. B. M. Rapko, B. K. McNamara, and R. D. Rogers, "Coordination Chemistry of Lanthanide Salts with *N,N,N′,N′*-Tetramethylsuccinamide and *N,N,N′,N′*-Tetrahexylsuccinamide," Presented by B. M. Rapko before the 53rd ACS Northwest Regional Meeting (NORM '98) (1998), Pasco, WA, Abstract 065.
57. R. D. Rogers, K. D. Smith, and S. K. Spear, "Aqueous Biphasic Systems: Polyethylene Glycol versus Polyethylene/Polypropylene Glycol Random Copolymer Phase Formation," Presented by K. D. Smith before the 51st Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 092.
58. R. D. Rogers, S. T. Griffin, and S. K. Spear, "Partitioning of Mercury using ABEC™ Resins," Presented by S. T. Griffin before the 51st Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 214.
59. R. D. Rogers, H. D. Willauer, and J. G. Huddleston, "Polymer-Based Aqueous Biphasic Extraction of Lignin During Alkaline Pulping," Presented by H. D. Willauer before the 51st Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 217.
60. R. D. Rogers, A. E. Visser, R. P. Swatloski, and D. H. Hartman, "Liquid/Liquid Extraction of Metal Ions in Room Temperature Ionic Liquids: Cation Effects," Presented by A. E. Visser before the 51st Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 595.
61. R. D. Rogers, G. A. Broker, C. V. K. Sharma, and G. J. Szulczewski, "Engineering Tetrapyridylporphyrin Coordination Complexes for Metal Ion Recognition in Crystalline Materials or on Surfaces," Presented by R. D. Rogers before the 51st Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 589.
62. R. D. Rogers, "Center for Green Manufacturing," presented by R. D. Rogers before the Green Chemistry Workshop, University of Regina, Energy Research Unit (1999), Regina, Saskatchewan, Canada (Invited Plenary).
63. R. D. Rogers, "Green Chemistry – International Definitions," Presented by R. D. Rogers before the Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering (2000), Mobile, AL.
64. R. D. Rogers, "R&D in UA's Center for Green Manufacturing," Presented by R. D. Rogers before the Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering (2000), Mobile, AL.
65. A. E. Visser, R. P. Swatloski, W. M. Reichert, R. D. Rogers, R. Mayton, S. Sheff, A. Wierzbicki, and J. H. Davis, Jr., "Task Specific Ionic Liquids: Urea Thiourea, and Thioether-Derivatized Imidazolium Cations for Hg^{2+} and Cd^{2+} Extraction in Liquid/Liquid Separations, Presented by A. E. Visser before the 52nd Southeast/56th Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA, Abstract 286.
66. W. M. Reichert, A. E. Visser, R. P. Swatloski, and R. D. Rogers, "Synthesis and Characterization of Novel Environmentally-Benign Solvents: Room Temperature Ionic Liquids," presented by W. M. Reichert before the 52nd Southeast/56th Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA, Abstract 285.
67. R. D. Rogers, R. P. Swatloski, A. E. Visser, and W. M. Reichert, "Reverse Crystal Engineering: Can We Use the Concepts Learned to Make New Room Temperature Ionic Liquids for Applications as Green Solvent Alternatives?" presented by R. D. Rogers before the 52nd Southeast/56th Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA, Abstract 203 (Invited Symposium Presentation).
68. R. D. Rogers, "Non-Sugar Products from Sugarcane for the New Millennium: Green Pathways to a Carbohydrate Economy?" Presented by R. D. Rogers to the Louisiana Division of the American Society of Sugar Cane Technologists, Baton Rouge, LA, on 2/6/01.
69. R. D. Rogers, "Innovations in the Sugar Industry," Presented by R. D. Rogers before the 32nd Annual Meeting of the American Society of Sugar Cane Technologists, Florida Division (2001), Belle Glade, FL, no abstract (Invited Keynote Presentation).

70. R. D. Rogers, "From Liquid Clathrates to Ionic Liquids," Presented by R. D. Rogers before the New Directions in Chemistry Symposium (2002), Columbia, MO (Invited Symposium Presentation).
71. R. D. Rogers and J. D. Holbrey, "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers before the 37th Midwest Regional ACS Meeting (2002), Lawrence, KS, Abstract 070 (Invited Symposium Presentation).
72. R. D. Rogers, G. A. Broker, K. E. Gutowski, and N. J. Bridges, "Crystal Engineering Using Lanthanide Ions as Nodes in Coordination Polymers," Presented by R. D. Rogers before the 54th Southeast Regional ACS Meeting (2002), Charleston, SC, Abstract 118 (Invited Symposium Presentation).
73. S. J. P'Pool, M. A. Klingshirn, J. D. Holbrey, R. D. Rogers, and K. H. Shaughnessy, "Polar, Non-Coordinating Ionic Liquids as Novel Solvents for Coordination Polymerization of Olefins," Presented by S. J. P'Pool before the 54th Southeast Regional ACS Meeting (2002), Charleston, SC, Abstract 275.
74. R. D. Rogers, J. D. Holbrey, and A. E. Visser, "Application of Task Specific Ionic Liquids to the Extraction of Hg^{2+} and Actinides," Presented by R. D. Rogers before the 54th Southeast Regional ACS Meeting (2002), Charleston, SC, Abstract 575 (Invited Symposium Presentation).
75. R. D. Rogers, J. D. Holbrey, and W. M. Reichert, "Polymorphism in 'Ionic Liquids'," Presented by R. D. Rogers before the 38th Midwest Regional ACS Meeting (2003), Columbia, MO, Abstract 364. (Invited Symposium Presentation).
76. S. Spear, J. Holbrey, and R. Rogers, "Ionic liquids as solvents in green chemistry: from fundamental studies to applied implementation," Presented by S. Spear before the 55th Southeast Regional ACS Meeting (2003), Atlanta, GA, Abstract 890.
77. V. A. Cocalia, M. P. Jensen, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Coordination of Trivalent *f*-elements and Uranyl Ions with Cyanex-272® in the Hydrophobic Ionic Liquid, 1-Decyl-3-methylimidazolium Bis(trifluoro-methanesulfonyl)imide", Presented by V. A. Cocalia at Alabama Actinide Day (2004), Auburn, AL.
78. N. J. Bridges and R. D. Rogers "Actinide Extractions from Nitric Acid using Cyanex 923 in $[C_{10}mim][Tf_2N]$," Presented by N. J. Bridges at Alabama Actinide Day (2004), Auburn, AL.
79. K. E. Gutowski, G. A. Broker, H. D. Willauer, S. K. Spear, and R. D. Rogers "Ionic Liquids in Nuclear Processing and Waste Remediation Applications," Presented by K. E. Gutowski at Alabama Actinide Day (2004), Auburn, AL.
80. S. Memon, K. Caldwell, G. Caldwell, and R. D. Rogers, "Using Caenorhabditis Elegans to Probe the Toxicity of Ionic Liquids," Presented by S. Memon to The University of Alabama College of Arts & Sciences Undergraduate Research and Creative Activity Presentations Competition (2004), Tuscaloosa, AL. (First Place Natural Sciences Division Award)
81. J. H. Poplin, R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Cellulose-Supported Colorimetric Sensors for Mercury Ion Detection," Presented by J. H. Poplin to The University of Alabama College of Arts & Sciences Undergraduate Research and Creative Activity Presentations Competition (2004), Tuscaloosa, AL. (Third Place Natural Sciences Division Award)
82. J. S. Moulthrop, R. P. Swatloski, R. D. Rogers, and G. Moyna, "High-Resolution ^{13}C NMR Studies of Amylose and Cellulose Oligomers in 1-Butyl-3-methylimidazolium Chloride Solutions," Presented by J. S. Moulthrop to the local Sigma Xi Chapter (2004), Philadelphia, PA.
83. R. D. Rogers, S. K. Spear, and J. D. Holbrey, "Ionic Liquids: Fundamental Studies to Technological Applications in Support of Green Chemistry," Presented by R. D. Rogers before the 60th Southwest Regional ACS Meeting (2004), Ft. Worth, TX, Abstract 265. (Invited Presentation)
84. R. D. Rogers, "Radiochemistry at The University of Alabama," Presented by R. D. Rogers before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
85. K. E. Gutowski, D. A. Dixon, and R. D. Rogers "Probing Gas-phase Uranyl-Orthophosphate Structure with Density Functional Theory," Presented by K. E. Gutowski before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
86. V. A. Cocalia and R. D. Rogers, "Ionic Liquids and Actinides", Presented by V. A. Cocalia before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
87. N. J. Bridges and R. D. Rogers "Aqueous Biphasic Systems (ABS) for the Removal and Recovery of Tc(VI) from High Salt Solutions," Presented by N. J. Bridges before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
88. S. B. Memon, G. Caldwell, K. Caldwell, and R. Rogers, "Using *Caenorhabditis elegans* to probe the toxicity of ionic liquids," Presented by S. B. Memon, before the Fourth Annual University of Alabama System Honors Research Day (2005), Birmingham, AL, Abstract A4.
89. W. L. Hough and R. D. Rogers, "Ionic Liquids: The Next Generation of Sweeteners," Presented by W. L. Hough before the Second Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2005), Tuscaloosa, AL, Abstract.
90. T. B. Wilson and R. D. Rogers, "Thermal Studies of Dual Functional Ionic Liquids," Presented by T. B. Wilson before the Second Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2005), Tuscaloosa, AL, Abstract.
91. J. H. Poplin and R. D. Rogers, "Utilizing Potentially Green Ionic Liquids: Development of Cellulose Based Magnetic Materials," Presented by J. H. Poplin before the Second Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2005), Tuscaloosa, AL, Abstract.
92. M. B. Townsend, P. L. Jernigan, M. M. Bailey, S. R. Smith, J. F. Rasco, R. P. Swatloski, R. D. Rogers, and R. D. Hood "Effects of 1-Butyl-3-Methylimidazolium Chloride on Developmental Toxicity in Mice," Presented by M. B. Townsend before the Howard Hughes Poster Session (2005), Tuscaloosa, AL.

93. P. L. Jernigan, M. B. Townsend, M. M. Bailey, S. R. Smith, J. F. Rasco, R. P. Swatloski, R. D. Rogers, and R. D. Hood, "Effects of 1-Decyl-3-Methylimidazolium Chloride on Fetal Development of Mice," Presented by P. L. Jernigan before the Howard Hughes Poster Session (2005), Tuscaloosa, AL.
94. M. L. Moody, J. G. Huddleston, S. T. Griffin, and R. D. Rogers, "Aqueous Influence on the Solvent Properties of Polyethylene Glycol," Presented by M. L. moody before the 57th Southeast/61st Southwest Joint Regional ACS Meeting (2005), Memphis, TN, Abstract Nov 04-098.
95. D. T. Daly and R. D. Rogers, "Multi-Functional Ionic Liquid Compositions Improved Properties for Active Pharmaceutical, Biological, and Nutritional Ingredients," Presented by D. T. Daly before the Biotechnology Association of Alabama Annual Meeting (2006), Birmingham, AL.
96. R. D. Rogers, "Green Chemistry: An Overview," Presented by R. D. Rogers before the Alabama Health and Safety Conference (2006), Tuscaloosa, AL (Keynote Speaker).
97. W. L. Hough and R. D. Rogers, "Dual Function Ionic Liquids," Presented by W. L. Hough before the Third Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2006), Tuscaloosa, AL, Abstract 16A.
98. M. B. Suggs and R. D. Rogers, "Regeneration of Cellulose Membranes with Ionic Liquids," Presented by M. B. Suggs before the Third Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2006), Tuscaloosa, AL, Abstract 28A.
99. S. K. Spear, S.T. Griffin, W. M. Reichert, and R. D. Rogers, "Applications of Bio-Solvents to the Nuclear Power Industry," Presented by S. K. Spear before the 5th Southern Bioproducts and Renewable Energy Conference (2006), Choctaw, MS.
100. R. D. Rogers, "Green Chemistry: Can Society and the Chemical Industry Co-Exist?" Presented by R. D. Rogers before the 29th Annual Area Collegiate Chemistry Meeting in conjunction with the Industry-Academe Interaction for Green Chemistry Meeting (2006), Martin, TN. (Invited Panel Participant)
101. R. D. Rogers, R. P. Swatloski, G. Moyna, D. A. Fort, and P. Moyna, "Use of ionic liquids in the study of fruit ripening by high-resolution 13C NMR spectroscopy: 'Green' solvents meet green bananas," by R. D. Rogers before the 37th Great Lakes Regional ACS Meeting (2006), Milwaukee, WI, Abstract 068. (Invited Presentation)
102. R. D. Rogers, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented to the Queen's University of Belfast QUILL Ionic Liquids Week (2008), Belfast, NI. No Abstract. (Invited Presentation)
103. R. D. Rogers, "Ionic Liquids," The University of Alabama IP Forum (2008), Tuscaloosa, AL.
104. S. Watts, D. Daly, R. Frazier, R. Rogers, and W. Hough-Troutman, "Slow Release of an Active Ingredient from Ionic Liquid Regenerated Cellulose Beads," Presented by S. Watts before The University of Alabama First Annual Undergraduate Research and Creative Activity Conference (2008), Tuscaloosa, AL; Abstract Book. (Second Place Poster)
105. S. Mroczynski, D. Daly, S. Spear, and R. D. Rogers, "Strength from the Sea," Presented by S. Mroczynski before The University of Alabama First Annual Undergraduate Research and Creative Activity Conference (2008), Tuscaloosa, AL.
106. N. Sun, M. Rahman, Y. Qin, M. L. Maxim, and R. D. Rogers, "Dissolution and Separation of Biomass Utilizing Ionic Liquids" Presented by N. Sun before the 60th Southeast Regional Meeting of the American Chemical Society (SERMACS) (2008), Nashville, TN, Abstract 250.
107. N. J. Bridges, T. M. Adams, A. E. Visser, M. J. Williamson, and R. D. Rogers, "Ionic Liquids from Phase Modifier to Solvent for Future Nuclear Fuel Processing," Presented by N. J. Bridges before the 60th Southeast Regional Meeting of the American Chemical Society (SERMACS) (2008), Nashville, TN, Abstract 647.
108. J. Sherrill, J. Beaird, J. F. Rasco, J. M. Sturdivant, M. B. Townsend, P. L. Jernigan, R. D. Hood, R. P. Swatloski, R. D. Rogers, and M. M. Bailey, "Developmental Toxicity of Ionic Liquids," Presented by J. Sherrill before the 86th Annual Meeting of the Alabama Academy of Science (2009), Livingston, AL, Abstract: *J. Alabama Acad. Sci.* **2009**, *80*, 117-118.
109. A. Metlen and R. D. Rogers, "Dithiocarbamate Salts and Ionic Liquids," Poster presented by A. Metlen at the QUILL 10th Anniversary Meeting (March-April 2009), Belfast, Northern Ireland, UK.
110. Y. Zou, J. D. Holbrey, and R. D. Rogers, "Ionic Liquids for Aromatic and Aliphatic Hydrocarbon Separation," Poster presented by Y. Zou at the QUILL 10th Anniversary Meeting (March-April 2009), Belfast, Northern Ireland, UK.
111. R. D. Rogers "Ionic Liquids: At the Intersections," Presented by R. D. Rogers at the QUILL 10th Anniversary Meeting (March-April 2009), Belfast, Northern Ireland, UK.
112. D. M. Drab, J. L. Shamshina, S. Smiglak, C. C. Hines, D. B. Cordes, and R. D. Rogers, "Establishing a flexible synthetic design platform for multi-heterocyclic ionic liquids: Introduction of concept and initial demonstration," Presented by D. M. Drab at the 13th Annual Graduate Student Association Research and Thesis Conference (2010), The University of Alabama, Tuscaloosa, AL, Abstract Book.
113. S. Kyle Lee, W. Hough-Troutman, R. D. Rogers, K. A. Caldwell, and G. A. Caldwell, "Searching for Ionic Liquid Partners That Will Enhance the Neuroprotective Role of Lidocaine," Presented by S. Kyle Lee before the UA Undergraduate Research Competition (2010), Tuscaloosa, AL.
114. R. D. Rogers, "Green Chemistry, Technology, & Innovation," Presented by R. D. Rogers at the Crimson In Green: An Energy Forum (February 17, 2012), Tuscaloosa, AL, No Abstract (Invited Speaker).
115. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers before the Inaugural SEC Symposium: Impact of

the Southeast in the World's Renewable Energy Future (Feb. 10-12, 2013), Atlanta, GA, Abstract Book p 34. (Invited Presenter).

116. P. D. McCrary, L. A. Flores, G. Chatel, and R. D. Rogers, "Evaluating Ionic Liquids as Hypergolic Fuels: From Reactive Nanomaterials to Trigger Additives," Presented by P. D. McCrary before the Energetic Ionic Liquid Mini-Symposium (May 21-22, 2013), Air Force Research Laboratory, Edwards Air Force Base, CA, No Abstract.
117. L. A. Flores, P. D. McCrary, G. Chatel, O. Andreea Cojocaru, and R. D. Rogers, "Molecular Characteristics and Interactions Leading to Liquid Clathrate Behavior," Presented by L. A. Flores before the Energetic Ionic Liquid Mini-Symposium (May 21-22, 2013), Air Force Research Laboratory, Edwards Air Force Base, CA, No Abstract.
118. R. D. Rogers and S. P. Kelley, "Supramolecular chemistry in the liquid state: What can halogen bonding offer ionic liquids?" Presented by R. D. Rogers before the 49th Midwest Regional Meeting of the American Chemical Society (November 12-15, 2014), Columbia, MO, Abstract 384.
119. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers before the 3rd Annual *Sustainable Innovation through Green Chemistry* Workshop and Case Competition Schedule (January 16-17, 2015), McGill University, Montreal, QC, Canada, No Abstract (Invited Keynote).
120. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A Sustainable Bio-based Economy," Presented by R. D. Rogers before the Quebec-Ontario Biotech Meeting (May 21-22, 2015), McGill University, Montreal, QC, Canada, No Abstract (Invited Keynote).
121. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers before the Science for a Sustainable Society Symposium (January 26-27, 2016), McGill University, Montreal, QC, Canada, No Abstract (Invited Keynote).
122. R. D. Rogers and P. Berton, "Chitin-based Sorbents for Mining Metals from Oceans: A Sustainable Alternative to Terrestrial Mining," Presented by R. D. Rogers before the 44th Middle Atlantic Regional Meeting of the American Chemical Society (June 9-12, 2016), Riverdale, NY, Abstract MARM 174. (Invited Keynote Presentation)
123. E. C. Achinivu, J. L. Shamshina, and R. D. Rogers, "Diversifying the chitin economy: Different sources of biomass for chitin extraction and biomaterial formation," Presented by E. C. Achinivu before the 68th Southeastern Regional Meeting of the American Chemical Society (October 23-26, 2016), Columbia, SC, Abstract SERMACS 1095.
124. R. D. Rogers, "Green Quest," Presented by R. D. Rogers before the Junior Chamber of Commerce Mat'Inno Conference: Chimie verte & environnement (https://www.jccm.org/activites/conferences/matinnochimieverteenvironnement; February 9, 2017), Montreal, QC, Canada, No Abstract.
125. R. D. Rogers, "Can Ionic Liquids be Disruptive Enough to Save the World?" Presented by R. D. Rogers before the before the 2017 Midwest Regional Meeting of the American Chemical Society (October 18-20, 2017), Lawrence, KS, Abstract 244. (Invited)
126. H. M. Titi, J. Marrett, M. Arhangelskis, R. D. Rogers, and T. Friscic, "Structural Manipulations enable Novel Solid Hypergols," Presented by H. M. Titi before the 2021 55th Midwest Regional Meeting of the American Chemical Society (October 20-22, 2021), Springfield, MO, Abstract 252.
127. R. D. Rogers, H. Wineinger, and G. Gurau, "Exploring the nature of f-element soft donor interactions using electronically tunable azolate ionic liquids" Presented by R. D. Rogers before the before the 2021 Southeastern Regional Meeting of the American Chemical Society (November 10-13, 2021), Birmingham, AL, Abstract 507. (Invited).
128. R. D. Rogers, "Crystal Engineering to Liquid Engineering: Salts, cocrystals, deep eutectics, crystals, liquids…It's about the interactions and effects" Presented by R. D. Rogers before the 2022 Midwest Regional Meeting of the American Chemical Society (October 19-21, 2022), Iowa City, IA, Abstract 98. (Invited).
129. R. D. Rogers, "Actinide Chemistry: Projects, Facilities, and Opportunities," Presented by R. D. Rogers before the Research Explorations for Nuclear Energy in Wyoming (RENEW) Workshop (April 14, 2023), Laramie, WY, No Abstract. (Invited).

E. Seminars:

1. "C_1 Chemistry in Group IVB - Some Structural Aspects," Presented by R. D. Rogers at Bell Laboratories, Murray Hill, NJ, on 8/15/83.
2. "Structural Investigations of New Pentamethylcyclopentadienyl Derivatives of Group IVB," Presented by R. D. Rogers at Northwestern University, Evanston, IL on 2/3/84.
3. "Early Transition Metal Chemistry: A Structural Point of View," Presented by R. D. Rogers at the Instituto Venezolano de Investigaciones Cientifica, Caracas, Venezuela on 8/15/84.
4. "Structural Organometallic Chemistry of the Early Transition Metals," Presented by R. D. Rogers at Fisk University, Nashville, TN on 3/18/85.
5. "Structural Organometallic Chemistry of the Early Transition Metals," Presented by R. D. Rogers at Tuskeegee Institute, Tuskeegee, AL on 3/20/85.
6. "Structural Organometallic Chemistry of the Early Transition Metals," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL on 3/21/85.
7. "Crown Ether Coordination in the f-Element Series," Presented by R. D. Rogers at the University of Illinois at Chicago, Chicago, IL on 2/18/86.
8. "Early Transition Metal Chemistry - A Structural Point of View," Presented by R. D. Rogers at Marquette University, Milwaukee, WI on 3/21/86.
9. "f-Element/Crown Ether Complexes, Structural Effects of Solvent and Water of Hydration Hydrogen Bonding," Presented by R. D. Rogers at Victoria University, Wellington, New Zealand on 7/24/87.
10. "f-Element/Crown Ether Complexes," Presented by R. D. Rogers at the University of Hawaii, Honolulu, HA on 8/26/87.
11. "f-Element/Crown Ether Complexes," Presented by R. D. Rogers at the University of Toledo, Toledo, OH on 10/14/87.
12. "Hydrogen Bonding in f-Element Complexes of Crown Ethers," Presented by R. D. Rogers at Ripon College, Ripon, WI, on 11/22/88.
13. "Crown Ether Complexation Chemistry of the Lanthanides," Presented by R. D. Rogers at Albany State College, Albany, GA, on 2/10/89.
14. "Crown Ether Complexation Chemistry of the Lanthanides," Presented by R. D. Rogers at Tuskeegee University, Tuskeegee, AL, on 2/13/89.
15. "f-Element/Crown Ether Complex Chemistry," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL, on 2/14/89.
16. "Crown Ether Chemistry of the Lanthanides," Presented by R. D. Rogers at Saint Mary's University, Halifax, Canada on 3/3/89.
17. "Coordination versus Hydrogen Bonding in Crown Ether Complexes of Hydrated f-Element Salts," Presented by R. D. Rogers at Dalhousie University, Halifax, Canada, on 3/3/89.
18. "Macrocycle Complexation Chemistry: The Toxic Metals (Cd, Hg, Tl, Pb, Bi) and Their Removal from the Environment," Presented by R. D. Rogers at Western Michigan University, Kalamazoo, MI, on 10/23/89.
19. "Macrocycle Complexation Chemistry: The Toxic Metals (Cd, Hg, Tl, Pb, Bi) and Their Removal from the Environment," Presented by R. D. Rogers at Rockford College, Rockford, IL, on 3/27/90.
20. "Structural Characterization of Light Atom Structures via X-ray Crystallography," Presented by R. D. Rogers at The University of Mississippi, Oxford, MS, on 4/10/90.
21. "The Toxic Metals and Their Removal from the Environment," Presented by R. D. Rogers at Illinois Benedictine College, Lisle, IL, on 4/19/90.
22. "Crown Ether vs. Polyethylene Glycol Complexation of Lanthanide Chlorides," Presented by R. D. Rogers at Indiana University, Bloomington, IN, on 2/28/91.
23. "Polyethylene Glycols as Ionizable Complexing Agents of Bi^{+3}," Presented by R. D. Rogers at Indiana University, Bloomington, IN, on 3/1/91.
24. "Investigations of Polyethylene Glycols as Complexing Agents and Liquid/Liquid Extraction Diluents for Bismuth," Presented by R. D. Rogers at Loyola University of Chicago, Chicago, IL, on 9/19/91.
25. "Polyethylene Glycols and Metal Ions: Structural Chemistry to Aqueous Biphasic Extraction," Presented by R. D. Rogers at the Universität Bayreuth, Bayreuth, Germany, on 6/23/92.
26. "Polyethylene Glycols: From Coordination Chemistry of Metal Cations to Unique Systems for Dissolved Metal Ion Separations," Presented by R. D. Rogers at the University of Groningen, Groningen, The Netherlands, on 7/2/92.
27. "Macrocycle Complexation Chemistry: Toxic Metals and Their Removal from the Environment," Presented by R. D. Rogers at Elmhurst College, Elmhurst, IL, on 11/18/92.
28. "Aqueous Biphasic Systems: New Systems for Metal Ion Extraction," Presented by R. D. Rogers at Los Alamos National Laboratory, Los Alamos, NM, on 5/26/93.
29. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Systems for Novel Metal Ion Separations," Presented by R. D. Rogers at the University of New Mexico, Albuquerque, NM, on 9/24/93.
30. "Structural Investigation of Cyclic and Acyclic Polyether Complexes - Cation Control of Coordination," Presented by R. D. Rogers at Valparaiso University, Valparaiso, IN, on 12/10/93.
31. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Systems for Novel Metal Ion Separations," Presented by R. D. Rogers at Loyola University of Chicago, Chicago, IL, on 4/14/94.

32. "The Effects of Polyethylene Glycol on the Coordination Sphere of Strontium: Are PEGs Useful in Sr^{2+} Extraction Technologies?" Presented by R. D. Rogers at Oak Ridge National Laboratory, Oak Ridge, TN, on 5/16/94.
33. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Systems for Novel Metal Ion Separations," Presented by R. D. Rogers at Union Carbide Corporation, South Charleston, WV, on 6/3/94.
34. "The Effects of Polyethylene Glycol on the Coordination Sphere of Strontium: Are PEGS Useful in Sr^{2+} Extraction Technologies?" Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL, on 6/22/94.
35. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Ways to Separate Metal Ions," Presented by R. D. Rogers at Western Michigan University, Kalamazoo, MI, on 10/10/94.
36. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Ways to Separate Metal Ions," Presented by R. D. Rogers at the University of Wisconsin-Oshkosh, Oshkosh, WI, on 11/10/94
37. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at the University of Sevilla, Sevilla, Spain, on 6/16/95.
38. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL, on 7/12/95.
39. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at The University of Iowa, Iowa City, IA, on 9/13/95.
40. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at The University of Wisconsin at Milwaukee, Milwaukee, WI, on 10/9/95.
41. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Technologies for Metal Ion Separations," Presented by R. D. Rogers at Argonne National Laboratory, Argonne, IL, on 1/29/96.
42. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Technologies for Metal Ion Separations," Presented by R. D. Rogers at Monash University, Clayton, Victoria, Australia, on 3/19/96.
43. "ABEC Resins: From Aqueous Biphasic Novelties to Selective Aqueous Biphasic Extraction Chromatography Resins for Metal Ions," Presented by R. D. Rogers at Mississippi State University, Starkville, MS, on 1/24/97.
44. "Green Chemistry in Separation Science," Presented by R. D. Rogers at the March meeting of the Alabama Section of The American Chemical Society, Birmingham, AL, on 3/20/97.
45. "ABEC Resins: From Aqueous Biphasic Novelties to Selective Aqueous Biphasic Extraction Chromatography Resins for Metal Ions," Presented by R. D. Rogers at the University of Alabama at Huntsville, Huntsville, AL, on 3/28/97.
46. "The SMART System at The University of Alabama: Experiences, Reflections, and Data," Presented by R. D. Rogers at the Siemens Area Detector Users Group Meeting (SADUG97), Athens, GA, on 4/19/97.
47. "Coordination Chemistry and Separations of Actinides," Presented by R. D. Rogers at Florida State University, Tallahassee, FL, on 4/24/97.
48. "Polyethylene Glycol-Based Aqueous Biphasic Systems and ABEC Resins for the Selective Removal and Recovery of Metal Ions," Presented by R. D. Rogers at the University of Birmingham, Birmingham, England, UK, on 5/21/97.
49. "Polyethylene Glycol-Based ABEC Resins for the Selective Removal of Technetium from Hanford Tank Wastes," Presented by R. D. Rogers at British Nuclear Fuels, Ltd., Preston, England, UK, on 5/22/97.
50. "Aqueous Biphasic Systems: New Technologies for Metal Ion Separations," Presented by R. D. Rogers at Queen's University, Belfast, Northern Ireland, UK, on 5/27/97.
51. "Clean Separation Technologies," Presented by R. D. Rogers at the University of New Hampshire, Durham, NH, on 7/24/97.
52. Clean Separation Technologies," Presented by R. D. Rogers at the University of Marburg, Marburg, Germany, on 9/26/97.
53. "Green Separation Science: Traditional Polymeric Supports to Crystal Engineered Inorganic Polymers," Presented by R. D. Rogers at Clemson University, Clemson, SC, on 10/1/97.
54. "Utilization of Polyethylene Glycol in Industrially and Environmentally Important Separations," Presented by R. D. Rogers at Union Carbide, South Charleston, WV, on 10/3/97.
55. "Clean Separation Technologies," Presented by R. D. Rogers at The University of Alabama (Chemical Engineering Department), Tuscaloosa, AL, on 10/9/97.
56. "Polyethylene Glycol-Based Aqueous Biphasic Systems and ABEC Resins for the Selective Removal and Recovery of Metal Ions," Presented by R. D. Rogers at the University of Tennessee at Knoxville, Knoxville, TN, on 2/5/98.
57. "Green Separation Science: Traditional Polymeric Supports to Crystal Engineered Inorganic Polymers," Presented by R. D. Rogers at Oak Ridge National Laboratory, Oak Ridge, TN, on 2/6/98.
58. "Green Separation Science: Traditional Polymeric Supports to Crystal Engineered Inorganic Polymers," Presented by R. D. Rogers at Tennessee Technological University, Cookeville, TN, on 2/19/98.
59. "Coordination Chemistry to Crystal Engineering," Presented by R. D. Rogers at the University of Puerto Rico, San Jaun, PR, on 4/6/98.
60. "Clean Separations Using Non-Toxic Aqueous Polymers: In Support of Vision 2020," Presented by R. D. Rogers in the J. Clarence Karcher Lecture series at the University of Oklahoma, Norman, OK, on 4/23/98.
61. "Environmentally Benign Liquid/Liquid Extraction Media for Metal Ion Separations: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at the University of Mississippi, Oxford, MS, on 12/4/98.
62. "Green Separation Science and technology: Using Environmentally Benign Liquid/Liquid Extraction Media for Metal Ion Separations: Aqueous Biphasic Systems and Room temperature Ionic Liquids," Presented by R. D. Rogers at the Exxon Research and Development Laboratories, Baton Rouge, LA, on 5/7/00.
63. "Green Separation Science and Technology: Using Environmentally Benign Liquid/Liquid Extraction Media, Aqueous Biphasic

Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at the University of South Alabama, Mobile, AL, on 5/21/99.

64. "Environmentally Benign Liquid/Liquid Extraction Media: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at Pacific Northwest National Laboratory, Richland, WA, on 10/7/99.
65. "Environmentally Benign Liquid/Liquid Extraction Media: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at Washington State University, Pullman, WA, on 10/8/99.
66. "A Toolbox Approach to Green Separations Science & Technology: Crystal Engineering, Aqueous Biphasic Systems, and Room Temperature Ionic Liquids," Presented by R. D. Rogers at The University of Kentucky, Lexington, KY, on 10/28/99.
67. "Room Temperature Ionic Liquids as VOC Solvent Replacements," Presented by R. D. Rogers at Mercer University, Macon, GA, on 11/9/99.
68. "Ionic Liquids in Separations," Presented by R. D. Rogers at Queen's University, Belfast, Northern Ireland, UK, during Ionic Liquid Week, 1/31/00-2/4/00.
69. "Green Chemistry and Ionic Liquids: Sustainable Industrial Development from Academic Challenges," Presented by R. D. Rogers at Birmingham Southern College, Birmingham, AL, on 2/29/00.
70. "Ionic Liquids in Separations," Presented by R. D. Rogers as the 2nd Queen's University Ionic Liquid Laboratory Lecture, Queen's University, Belfast, Northern Ireland, UK on 4/3/00.
71. "Ionic versus Molecular Solvents: Challenges in Adopting Ionic Liquids as Alternative Reaction Media," Presented by R. D. Rogers at the University of Florida, Gainesville, FL on 5/3/00.
72. "The Role of the Sugar Industry in the New Green Chemistry & Engineering Paradigm of Sustainable Industry," Presented by R. D. Rogers at the Sugar Cane Growers Cooperative of Florida, Belle Glade, Fl on 5/4/00.
73. "Ionic Liquids & Their Application to Separation Processes," Presented by R. D. Rogers at Union Carbide, South Charleston, WV on 5/9/00.
74. "Crystal Engineering of Coordination Polymers," Presented by R. D. Rogers at Université Louis Pasteur, Strasbourg, France on 6/7/00 (Visiting Professor Lecture).
75. "Green Chemistry and Applications of Ionic Liquids as Solvents," Presented by R. D. Rogers at Université Louis Pasteur, Strasbourg, France on 6/16/00 (Visiting Professor Lecture).
76. "How Green Chemistry can Shape the Future of the Chemical Industry," Presented by R. D. Rogers at the Green Chemical Processes –Issue, Challenges, Innovations, Technical Symposium, BP Amoco Chemicals Central Technology, Naperville, IL on 7/11/00.
77. "Engineering Tetrapyridylporphyrin Coordination Complexes for Metal Ion Recognition in Crystalline Materials or on Surfaces," Presented by R. D. Rogers at Emory University on 9/28/00.
78. "Ionic Liquids as Alternatives to Organic Solvents" Presented by R. D. Rogers at North Carolina State University, Raleigh, NC on 10/5/00.
79. "Ionic Liquids as Alternatives to Organic Solvents" Presented by R. D. Rogers at Kennedy Space Center, Cape Canaveral, FL on 10/6/00.
80. "Ionic Liquids as 'Green' Alternatives to Organic Solvents," Presented by R. D. Rogers at Dow Agrosciences LLC, Indianapolis, IN on 10/30/00.
81. "Ionic Liquids," Presented by R. D. Rogers at University of Massachusetts at Boston, Boston, MA on 11/28/00.
82. "Room Temperature Ionic Liquids as Alternative Reaction Media," Presented by R. D. Rogers at Tulane University, New Orleans, LA on 12/5/00.
83. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Louisiana State University, Baton Rouge, LA on 1/31/01.
84. "Ionic Liquids as 'Green' Alternatives to Organic Solvents," Presented by R. D. Rogers at Dow Corning, Midland, MI on 2/5/01.
85. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at University of South Florida, Tampa, FL on 4/19/01."Ionic Liquids as 'Green' Alternatives to Organic Solvents," Presented by R. D. Rogers at Cognis Corporation, Cincinnati, OH on 5/16/01.
87. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at the U.S. Environmental Protection Agency, Washington, DC on 5/23/01.
88. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Tennessee State University, Nashville, TN on 10/18/01.
89. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at the University of Illinois at Urbana-Champaign, Urbana, IL on 2/12/02.
90. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Wesleyan University, Middletown, CT on 2/15/02.
91. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Kansas State University, Manhattan, KS on 2/22/02.
92. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Stellenbosch University, Stellenbosch, South Africa on 3/20/02.
93. "Non-Sugar Products from Sugarcane for the New Millennium: Green Pathways to a Carbohydrate Economy?" Presented by R. D. Rogers to the Sugar Milling Research Institute, Durban, South Africa on 3/26/02.
94. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Monsanto Company, St. Louis, MO on 6/6/02.

95. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to The Dow Chemical Company, Midland, MI on 6/19/02.
96. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to The Lubrizol Corporation, Cleveland, OH on 7/24/02.
97. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to Honeywell Corporation, Buffalo, NY on 8/14/02.
98. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to Eastman Corporation, Kingsport, TN on 10/28/02.
99. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to Savannah River Technical Center, SC on 11/13/02.
100. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Auburn University, Auburn, AL on 1/16/03.
101. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to GE Global Research Center, Schenectady, NY on 2/3/03.
102. "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers to AstraZeneca, Loughborough, United Kingdom on 3/28/03.
103. "Green Chemistry" in Pursuit of Traditional Chemical Research, Education, and Service: A Path Forward for the University of Massachusetts- Boston?" Presented by R. D. Rogers to the University of Massachusetts-Boston, Boston, MA on 5/5/03.
104. "Radiochemistry in the Rogers Group at The University of Alabama," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL on 8/28/03.
105. "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers to Los Alamos National Laboratory, Los Alamos, NM on 9/18/03.
106. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Mississippi State University, Starkville, MS on 10/17/03.
107. "Ionic Liquids as Green Solvents: Engineering New Bio-Based Materials," Presented by R. D. Rogers at the University of Alabama at Huntsville, Huntsville, AL on 1/16/04.
108. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Sun Yat-Sen University, Guangzhou, China on 2/23/04.
109. "A Burnum Legacy: Red Chemistry, Green Chemistry, and My Road from Alabama to Alabama" Presented by R. D. Rogers to The University of Alabama (Burnum Award Address), Tuscaloosa, AL on 4/6/04.
110. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids for Extreme Environments (i.e. NASA)?" Presented by R. D. Rogers to Marshall Space Flight Center, Huntsville, AL on 4/8/04.
111. "Green Chemistry" in Pursuit of Traditional Chemical Research, Education, and Service: A Path Forward for the University of Central Florida?" Presented by R. D. Rogers to the University of Central Florida, Orlando, FL on 4/14/04.
112. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to BASF Corporation, Ludwigshafen, Germany on 4/26/04.
113. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to Merck KGaA, Darmstadt, Germany on 4/27/04.
114. "Advanced Materials from Direct Dissolution of Cellulose," Presented to by R. D. Rogers to Gulf States Paper Corporation, Tuscaloosa, AL on 6/7/04.
115. "Applications of Ionic Liquid Technologies to f-Element Separations," Presented by R. D. Rogers to the E. O. Lawrence Berkeley Laboratory, Berkeley, CA on 6/16/04.
116. "Ionic Liquids: An Overview," Presented by R. D. Rogers to Stepan Company, Northfield, IL on 8/20/04.
117. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to the U. S. Environmental Protection Agency, National Risk Management Research Laboratory, Cincinnati, OH on 9/1/04.
118. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to Davidson College, Davidson, NC on 9/2/04.
119. "Ionic Liquids: An Overview," Presented by R. D. Rogers to The Proctor & Gamble Company, Cincinnati, OH on 11/10/04.
120. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers to the Swiss Federal Institute of Technology at Lausanne, Switzerland, on 10/13/04.
121. "Ionic Liquid Processing of Cellulose," Presented by R. D. Rogers to Lenzing AG, Lenzing, Austria, on 10/18/04.
122. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to the University of South Dakota, Vermillion, SD on 11/1/04.
123. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers to the Naval Research Laboratory, Washington, DC on 11/9/04.
124. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to the University of Missouri, Columbia, MO on 11/11/04.
125. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to Howard University, Washington, DC on 12/3/04.
126. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to the University of Bucharest, Bucharest, Romania on 12/13/04.
127. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to Wake Forest

University, Winston, NC on 1/12/05.

128. "Supramolecular Chemistry in Alternative Solvents: Are Nonvolatile Ionic Liquids Effective Crystallization Solvents or Fodder for Co-Crystals?" Presented by R. D. Rogers to the University of Bucharest, Bucharest, Romania on 3/16/05.
129. "Green Chemistry – An Overview," Presented by R. D. Rogers to the University of Bucharest, Bucharest, Romania on 3/17/05.
130. "Ionic Liquids: Solvents for Cellulose," Presented by R. D. Rogers to the U.S. Bureau of Engraving and Printing, Washington, DC on 4/29/05.
131. "Ionic Liquids: Applications are Coming; Get Ready Now!," Presented by R. D. Rogers to NIEHS, Raleigh, NC, on 5/4/05.
132. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to the Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China on 5/26/05.
133. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids? (R&D, Trends, and Practical Application)," Presented by R. D. Rogers to Merck KGaA, Darmstadt, Germany on 6/16/05.
134. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents for Crystal Engineering to Advanced New Materials," Presented by R. D. Rogers to The University of Tokyo, Tokyo, Japan on 7/20/05.
135. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to Tokyo University of Agricultural and Technology, Tokyo, Japan on 7/21/05.
136. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents for Crystal Engineering to Advanced New Materials," Presented by R. D. Rogers to Kyoto University, Kyoto, Japan on 7/22/05.
137. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to Eastman Kodak Company, Rochester, NY on 8/9/05.
138. "Energetic Ionic Liquids: Fundamental Studies Relating Target Structures and Key Physical Properties," Presented by R. D. Rogers to the Air Force Research Laboratory, Edwards Air Force Base, CA on 8/11/05.
139. "A Platform Strategy Using Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials," Presented by R. D. Rogers to FMC BioPolymer, Princeton, NJ on 9/13/05.
140. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to the Changchung Institute of Applied Chemistry, Chinese Academy of Sciences, Changchung, China on 9/27/05.
141. "Energetic Ionic Liquids: Fundamental Studies Relating Target Structures and Key Physical Properties," Presented by R. D. Rogers to the American Pacific/Georgia Tech. Roundtable, Atlanta, GA on 10/6/05; (also Panel Member for the Energetic Materials Panel Discussion).
142. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to the University of South Carolina, Columbia, SC on 11/18/05.
143. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers to the University of Southern Mississippi, Hattiesburg, MS on 12/2/05.
144. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to the DuPont 2005 Discovery Chemistry Seminar Series, DuPont Central Research and Development, Wilmington, DE on 12/7/05.
145. "Green Chemistry and Applications of Ionic Liquids as Solvents," Presented by R. D. Rogers to Jackson State University, Jackson, MS on 1/27/06.
146. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to Millennium Chemical/Lyondell, Baltimore, MD on 2/28/06.
147. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers as the Arnold C. Ott Lectureship in Chemistry (research presentation), Grand Valley State University, Allendale, MI on 4/5/06.
148. "Green Chemistry: Can Society and the Chemical Industry Co-Exist?" Presented by R. D. Rogers as the Arnold C. Ott Lectureship in Chemistry (public lecture), Grand Valley State University, Grand Rapids, MI on 4/5/06.
149. "Ionic Liquids," Presented by R. D. Rogers to Albion College, Albion, MI on 4/7/06.
150. "How the Center for Green Manufacturing Can Impact Alabama," Presented by R. D. Rogers to the Tuscaloosa League of Women Voters, Tuscaloosa, AL on 4/20/06.
151. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the 7th Annual Science Symposium *The Science of Sustainability, A Balance for the Future*, St. Olaf College, Northfield, MN on 5/5/06. (Invited Keynote Lecture)
152. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the University of Cologne, Cologne, Germany on 5/16/06.
153. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at IReS Chimie Nucleaire Strasbourg, France on 6/14/06.
154. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between," Presented by R. D. Rogers at the Institute Le Bel, Université Louis Pasteur, Strasbourg, France on 6/15/06 (Visiting Professor Lecture).
155. "Strategies Toward the Design of Energetic Materials," Presented by R. D. Rogers at the Institute Le Bel, Université Louis Pasteur, Strasbourg, France on 6/16/06 (Visiting Professor Lecture).
156. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the Stamford Seminar Series, Cytec Industries, Inc., Stamford, CT on 10/18/06.
157. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the University of Texas San Antonio, San Antonio, TX on 10/20/06.
158. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies For New Advanced Materials," Presented by R. D. Rogers at the University of Texas Arlington, Arlington, TX on 11/10/06.

159. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the University of Toledo, Toledo, OH on 1/17/07.
160. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers to Lyondell Chemical Co., Newton Square, PA on 2/13/07.
161. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 9/10/07.
162. "Applications and The Third Evolution of Ionic Liquids: Physical to Chemical to Biological Properties," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 9/10/07.
163. **"**The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Technische Universiteit Eindhoven, Eindhoven, The Netherlands on 9/24/07.
164. "Ionic Liquids as Transformational Technologies," Presented by R. D. Rogers to Nippon Chemical Industrial Company, Tokyo, Japan, on 4/21/08.
165. "The Evolution of Ionic Liquids – From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers at the Technical University of Denmark (2008), Lyngby, Denmark, on 6/16/08.
166. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Brookhaven National Laboratory, Upton, NY on 7/14/08.
167. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Abbott, Waukegan, IL on 8/14/08.
168. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to the University of Alabama at Birmingham, Birmingham, AL on 9/8/08.
169. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to AMGEN, South San Francisco, CA on 9/10/08.
170. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples for the Fragrance Industries," Presented by R. D. Rogers to Givaudan, Ashford, United Kingdom on 10/01/08.
171. "Green Chemistry and the Industrial Revolution," Presented by R. D. Rogers to the Royal Institution of Great Britain as an invited Friday Evening Discourse, London, United Kingdom on 11/14/08. (Invited)
172. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to The U.S. Army Research Office/U.S. Army Research Laboratory Ionic Liquids in Eletroactive Devices MURI Annual Review, Philadelphia, PA on 12/16/08. (Invited Guest Speaker)
173. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Rutgers University, New Brunswick, NJ on 1/20/09. (Invited Colloquium Speaker)
174. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Abbott, Waukegan, IL on 2/20/09. (Invited Abbott Seminar Series)
175. "Ionic Liquids and the Green Industrial Revolution," Presented by R. D. Rogers to The Queen's University of Belfast, Belfast, United Kingdom on 3/2/09. (Inaugural Lecture)
176. "The 'Ionic Liquid Talk'," Webinar presented by R. D. Rogers to the American Chemical Society Publications Division from Belfast, Northern Ireland to Washington, DC on 4/24/09.
177. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to the Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China on 8/22/09.
178. "From Green Chemistry to a 'Green' Industrial Revolution: Are Ionic Liquids Pointing the Way?" Presented by R. D. Rogers to the Foster Colloquium University of Buffalo, Buffalo, NY on 10/30/09. (Invited Colloquium Speaker)
179. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to Tuskegee Institute, Tuskegee, AL, on 11/30/09.
180. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to The Westerveld Company, Tuscaloosa, AL, on 12/16/09.
181. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to The University of Colorado, Boulder, CO, on 1/12/10.
182. "Ionic Liquid Advances and Retreats as Solvents and Materials," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 1/27/10.
183. "Ionic Liquids with or without Biological Activity for use in Personal Care Products," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 1/27/10.
184. "Crystallization Process in Ionic Liquids," Presented by R. D. Rogers to Nippon Chemical Industrial, Tokyo, Japan on 2/8/10.
185. "Ionic Liquids Laboratory to Commercialization," Presented by R. D. Rogers to the Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China on 04/28/10.
186. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to the Massachusetts Institute of Technology, Cambridge, MA on 06/10/10.
187. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to the Arch Chemicals Inc., Innovation Committee, Atlanta, GA on 09/15/10.

188. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Joint Bioenergy Research Institute, Lawrence Berkeley National Laboratory, Emeryville, CA on 10/05/10.
189. "Ionic Liquids: Laboratory to Commercialization Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Lanzhou University, Lanzhou, China on 10/28/10.
190. "Ionic Liquids: Laboratory to Commercialization," Presented by R. D. Rogers to The Chinese Academy of Sciences Institute of Chemical Physics, Lanzhou, China on 10/29/10.
191. "Ionic Liquids: Laboratory to Commercialization Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Jiaotong University, Xi'an, China on 11/01/10.
192. "Ionic Liquids: Laboratory to Commercialization Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Northwest University, Xi'an, China on 11/01/10.
193. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to Monsanto, St. Louis, MO on 11/11/10.
194. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to Frontier Scientific and Echelon, Logan, UT on 12/09/10.
195. "Vignettes of Ionic Liquids Strategies in the Rogers Group," Presented by R. D. Rogers to Tokyo University of Agricultural and Technology, Tokyo, Japan on 1/13/11.
196. "Vignettes of Ionic Liquids Strategies in the Rogers Group," Presented by R. D. Rogers to Nippon Chemical Industrial Company, Tokyo, Japan, on 1/14/11.
197. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to University of Guelph on 1/24/11.
198. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Tennessee Technological University, Cookeville, TN on 2/8/11.
199. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Oak Ridge National Laboratory, Oak Ridge, TN on 2/9/11.
200. "An Editor's Perspective on Contentious Issues Arising During the Peer Review Process," Presented by R. D. Rogers to the National Chemical Laboratory, Pune, India, on 6/24/11.
201. "An Editor's Perspective on Contentious Issues Arising During the Peer Review Process," Presented by R. D. Rogers to the Indian Institute of Science, Bangalore, India, on 6/27/11.
202. "Ionic Liquids: Unique Environments for f-Element Chemistry," Presented by R. D. Rogers to the Changchung Institute of Applied Chemistry, Chinese Academy of Sciences, Changchung, China on 07/26/11.
203. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Merck, Summit, NJ on 09/09/11.
204. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Loyola University, New Orleans, LA on 11/21/11.
205. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Ruhr Universität Bochum, Bochum, Germany on 12/01/11.
206. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Fraunhofer Institute for Wood Research Wilhelm Klauditz Institute, Braunschweig, Germany on 12/05/11.
207. "Ionic Liquids: Solvents and Materials," Presented by R. D. Rogers to Reliance Industries Limited, Mumbai, India on 03/09/12.
208. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Central Salt & Marine Chemicals Research Institute, Bhavnagar, Gujarat, India on 03/15/12.
209. "Ionic Liquids in Support of the Pharmaceutical Industries," Presented by R. D. Rogers to Novartis, Basel, Switzerland on 05/07/12.
210. "Green Chemistry, Technology, & Innovation (on the road to 'Shrimp Bandages')," Presented by R. D. Rogers to the Mobile Kiwanis Club, Mobile, AL on 6/27/12.
211. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the University of Mississippi, Oxford, MS on 11/01/12.
212. "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers to the U.S. Army ERDC Environmental Laboratory, Vicksburg, MS on 11/02/12.
213. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to McGill University, Montreal, Quebec, Canada on 11/06/12.
214. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to The University of Tennessee at Martin, Martin, TN on 02/18/13.
215. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to The University of Aveiro, Averio, Portugal on 04/29/13.
216. "A study of Ionic Liquids in the pharmaceutical sector - How can the liquid state help us master the solid state?" Presented by R. D. Rogers to Instituto de Technologia Quimica e Biologica (ITQB), Lisbon, Portugal on 04/30/13.

217. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Sugar Milling Research Institute, Council for Scientific and Industrial Research Forestry and Forest Products Research Centre, University of KwaZulu-Natal Chemical Engineering Department, and Durban University of Technology, Durban, South Africa on 07/03/13.
218. "A study of Ionic Liquids in the pharmaceutical sector - How can the liquid state help us master the solid state?" Presented by R. D. Rogers to McGill University, Montreal, Quebec, Canada on 08/21/13.
219. "Fine Tuning Double Salt Ionic Liquids and Their Applications in the Pharmaceutical Industry," Presented by R. D. Rogers at Novartis, Basel, Switzerland on 09/11/13.
220. "A study of Ionic Liquids in the pharmaceutical sector" Presented by R. D. Rogers to Nova University, Ft. Lauderdale, FL on 10/11/13.
221. R. D. Rogers, "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to the University of Cologne, Cologne, Germany, 11/28/13.
222. R. D. Rogers, "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to the University of Bochum, Bochum, Germany, 11/29/13.
223. "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers to Mississippi State University, Starkville, MS on 02/14/14.
224. R. D. Rogers, "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to the University of Rostock, Rostock, Germany, 04/07/14.
225. R. D. Rogers, "Liquid Engineering: Ionic Liquids for the Pharmaceutical Sector in Drug Development, Drug Delivery, and as Drugs," Presented by R. D. Rogers to Takeda Millennium, Cambridge, MA, 05/09/14.
226. R. D. Rogers, "Ideality vs. Reality of Green Chemistry in the Development of Advanced Materials from Renewable Polymers," Presented by R. D. Rogers before the North Alabama Section of the American Chemical Society, Huntsville, AL, 09/08/14.
227. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to Iowa State University, Ames, IA on 11/03/14.
228. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to McGill University Macdonald Campus, Montreal, QC Canada on 04/16/15.
229. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to Institut für Technische und Makromolekulare Chemie, RWTH Aachen, Aachen, Germany on 04/30/15.
230. R. D. Rogers, "Sustainability, from Ideas to Implementation: Can Ionic Liquids Help?" Presented by R. D. Rogers to L'Oréal, Aulnay sous Bois, France on 05/11/15.
231. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to the University of Calgary (Department of Chemistry), Calgary, AB, Canada on 07/07/15.
232. R. D. Rogers, "Is 'Sustainability' a new paradigm for the future chemical industry? Cross border perspectives and what we need to train the next generation to face," Presented by R. D. Rogers to Alberta Innovates Technology Futures, Calgary, AB, Canada on 07/09/15.
233. "Utilization of Ionic Liquids in Support of Continuous Pharmaceutical Manufacturing: Fine Tunability of Double Salt Ionic Liquids," Presented by R. D. Rogers at Novartis, Basel, Switzerland on 09/14/15.
234. R. D. Rogers, "Liquid Engineering: Ionic Liquids for the Pharmaceutical Sector in Drug Development, Drug Delivery, and as Drugs," Presented by R. D. Rogers to the Department of Pharmacology and Therapeutics, McGill University, Montreal, QC, Canada on 11/09/15.
235. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers to Concordia University, Montreal, QC, Canada on 11/13/15.
236. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers as a Waterloo Institute for Nanotechnology (WIN) Distinguished Lecture to the University of Waterloo, Waterloo, ON, Canada on 11/19/15.
237. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to West Virginia University (Department of Chemical Engineering), Morgantown, WV on 12/04/15.
238. "Before Applications You Need Understanding: Does the Nature of the Bonding in Double Salt Ionic Liquids 'Prove' a Difference Between Ionic Liquids and Molecular Liquids?," Presented by R. D. Rogers to Reliance Industries Limited, Mumbai, India on 01/19/16.
239. "Millions of New Ionic Liquids are Hiding in Plain Sight: Understanding the Nature of the Bonding in Double Salt Ionic Liquids (aka Ionic Liquid Mixtures)," Presented by R. D. Rogers to the PATH Workshop, University of Aveiro, Aveiro, Portugal on 05/09/16.
240. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers to Premier Tech Horticulture, Rivière-du-Loup, QC, Canada on 08/26/16.
241. "In search of Green Chemistry and Sustainability: Ionic Liquids?" Presented by R. D. Rogers before Cytec/Solvay, Niagara, Canada on 11/07/16.

242. "Do the Ionic Bonds in Ionic Liquids Provide Access to New Solid State Chemistry in Pharmaceutical Science?" Presented by R. D. Rogers before the McGill-CIHR Drug Development Training program DDTP X-ray Crystallography Workshop and Seminar Series, McGill University, Montreal, Canada on 11/09/16.
243. "Can Advanced Materials from Renewable Resources Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers before George Washington University (Department of Chemistry), Washington, DC on 01/27/17.
244. "Canada can be the World's economic superpower in the non-fossil fuel world and Green Chemistry can get us there," Presented by R. D. Rogers as part of the Cutting Edge Lecture Series, McGill University, Montreal, QC, Canada on 02/09/17.
245. "Ionic liquids in pharma: Is it time for manipulation of the ionic bond to supplant covalent modification?" Presented by R. D. Rogers before the São Paulo State University (UNESP), School of Pharmaceutical Sciences, Araraquara, Brazil on 04/10/17.
246. "Can Advanced Materials from Renewable Resources Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers in the Thomas Hunter Distinguished Lecture Series at Hunter College, New York, NY on 04/21/17.
247. "Ionic liquids in pharma: Is it time for manipulation of the ionic bond to supplant covalent modification?" Presented by R. D. Rogers at The University of Iowa, Iowa City, IA on 9/22/17.
248. "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers at York College Pennsylvania, York, PA on October 25, 2017.
249. "Ionic Liquids as Material Forms for Active Pharmaceutical Ingredients," Presented by R. D. Rogers Apotex Pharmachem Inc., Brandtford, ON, Canada on October 27, 2017.
250. "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers at Northern Illinois University, DeKalb, IL on October 30, 2017.
251. "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose Hemicellulose, and Chitin" Presented by R. D. Rogers at Florida Gulf Coast University, Ft. Myers, FL on January 26, 2018.
252. "Can Renewable Resources Replace Plastics in a Sustainable Society?" Presented by R. D. Rogers at Florida Gulf Coast University, Ft. Myers, FL on January 26, 2018.
253. "Combining Ionic Liquids and Green Chemistry as a Business Mode" Presented by R. D. Rogers at Lulea University, Lulea, Sweden on February 15, 2019.
254. "Green Chemistry as a Business Model: Is It Sustainable? Renewable Resources to Replace Plastics in a Sustainable Society as Example," Presented by R. D. Rogers at the Tage Erlander Professor Installation, Stockholm, Sweden on June 5, 2019.
255. "Roadmap to Commercialization of Ionic Liquid Extraction Technologies Including Roadblocks, Detours, and Areas Under Construction," Presented by R. D. Rogers at the University of Wyoming, Laramie, WY on January 29, 2021 (via Zoom).

F. Theses and Dissertations Directed:

1. M. M. Benning, "Actinide/Crown Ether Chemistry," Ph.D., Northern Illinois University, 1988.
2. L. Nuñez, "Structural, Magnetic, and Superconducting Properties of $YBa_2Cu_{3-x}Fe_xO_{7-\delta}$ Single Crystals," Ph.D., Northern Illinois University, 1990.
3. R. F. Henry, "Synthesis and Characterization of Novel Macrocycles and Their Complexes," M. S., Northern Illinois University, 1990.
4. A. N. Rollins, "Controlling the Primary Coordination Sphere: Complexation of the 4-f Elements by Crown Ethers as Models for Potential Extraction Systems," Ph.D., Northern Illinois University, 1993.
5. A. H. Bond, "Heavy Main Group Metal Ions: Structural Chemistry of Polyether Complexes and Aqueous Biphasic Separations," Ph.D., Northern Illinois University, 1995.
6. C. B. Bauer, "Polyether Complexation Chemistry of Hard Metal Ions: Structural Investigation and Partitioning Behavior in Aqueous Biphasic Systems," Ph.D., Northern Illinois University, 1995.
7. J. Zhang, "Polyethylene Glycol (PEG) Chemistry: Partitioning of Chaotropic Ions in PEG-Based Aqueous Biphasic Systems and Structural Investigation of Lanthanide Isothiocyanate/PEG Complexes," Ph.D., Northern Illinois University, 1997.
8. K. S. Granger, non-thesis option, M.S., The University of Alabama, 2000.
9. H. D. Willauer, "Fundamentals of Phase Behavior and Solute Partitioning in ABS and Applications to the Paper Industry," Ph.D., The University of Alabama, 2002.
10. A. E. Visser, "Metal Ion Separations in Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Ph.D., The University of Alabama, 2002. (Recipient of The University of Alabama Award for Excellence in Research by a Doctoral Student)
11. G. A. Broker, non-thesis option, M.S., The University of Alabama, 2003.
12. S. T. Griffin, "The Development and Applications of ABEC Resins," Ph.D., The University of Alabama, 2004.
13. M. Dilip, non-thesis option, M.S., The University of Alabama, 2004.
14. M. A. Klingshirn, "Relating Ionic Liquids and Polyethylene Glycols to Green Chemistry, Organometallic Catalysis, and Materials Science," Ph.D., The University of Alabama, 2005.
15. M. B. Turner, "Ionic Liquids in the Life Sciences: Are Ionic Liquids Useful in the Manipulation of Biomolecules?," Ph.D., The University of Alabama, 2005.
16. W. M. Reichert, "The Effects of Cation-Anion Interactions on the Properties of Ionic Liquids," Ph.D., The University of Alabama, 2005.
17. R. P. Swatloski, "Ionic Liquids as Green Solvents: Enabling New Materials and Technologies," Ph.D., The University of Alabama, 2005.
18. G. A. Broker, "Crystal Engineering Studies of some Nitrogen Containing Multifunctional Ligands," Ph.D., The University of Alabama, 2006.
19. V. A. Cocalia, "Separations, Solvation, and Coordination of Actinides in Ionic Liquids," Ph.D., The University of Alabama, 2006.
20. K. E. Gutowski, "Computational Thermodynamic Studies of the Formation and Stability of Ionic Liquids and Actinide-Ligand Complexes," Ph.D., The University of Alabama, 2006. (Recipient of The University of Alabama Award for Excellence in Research by a Doctoral Student)
21. N. J. Bridges, Ph.D., "Ionic Liquids and Water: An Investigation of Solvation," The University of Alabama, 2007.
22. C. C. Hines, "Ionic Liquids for Crystallization: Echoes of Solvation in the Solid State," M.S., The University of Alabama, 2007 (Recipient of The University of Alabama's Award for Excellence in Research by a Masters Student)
23. M. L. Moody, "A Study of the Influence of Water on Polyethylene Glycol Solutions," Ph.D., The University of Alabama, 2007
24. M. Smiglak, "A Modular "Ionic Liquid" Platform for the Custom Design of Energetic Materials," Ph.D., The University of Alabama, 2007. (Recipient of The University of Alabama Award for Excellence in Research by a Doctoral Student)
25. M. Dilip, "Towards Greener Separations: Role of water in Aqueous Biphasic Systems," Ph.D. The

University of Alabama, 2008.
26. W. L. Hough, "Functional Ionic Liquids for Use in Pharmaceutical Applications," Ph.D. The University of Alabama, 2010.
27. N. Sun, "Dissolution and Processing of Cellulosic Materials with Ionic Liquids: Fundamentals and Applications," Ph.D. The University of Alabama, 2010.
28. D. M. Drab, "A Versatile Design Platform for Multi-Heterocyclic Ionic Liquid Synthesis," Ph.D. The University of Alabama, 2011.
29. M. L. Maxim, "Ionic Liquids Platform for Biomass Dissolution Leading to Advanced Biocomposite Materials," Ph.D. The University of Alabama, 2012.
30. P. A. Beasley, "Understanding the Effects of Molecular Additions in Energetic Ionic Liquids," M.S. The University of Alabama, 2013.
31. P. M. McCrary, "Controlling the Properties of Energetic Ionic Liquids by Stabilizing Reactive Nanomaterials," Ph.D. The University of Alabama, 2014.
32. S. P. Kelley, "Isolation of Soft Donor Complexes of d- and f-Block Metals Using Ionic Liquids," Ph.D. The University of Alabama, 2015.
33. C. S. Griggs, "Ionic liquids and chitinous biomass: Materials, synthesis, and applications for Uranium sequestration," Ph.D. The University of Alabama, 2016.
34. Catherine A. King, "The use of ionic liquids as a platform for the sustainable development of high value materials from chitin waste," M.S. McGill University, 2017.
35. Nicholas Lin, "Bio-inspired design of anti-biofouling surface topographies," M.S. McGill University, 2017.