

Brent S. Sumerlin, Ph.D.

Curriculum Vitae

George Bergen Butler Professor of Chemistry
Director, George & Josephine Butler Polymer Research Laboratory
Director, Center for Macromolecular Science & Engineering

George & Josephine Butler Polymer Research Laboratory
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Education & Training

2003 – 2005	Carnegie Mellon University, Pittsburgh, PA Visiting Assistant Professor/Postdoctoral research associate <i>Advisor: Krzysztof Matyjaszewski</i>
1998 – 2003	Ph.D., University of Southern Mississippi, Hattiesburg, MS Polymer Science and Engineering <i>Advisor: Charles L. McCormick</i>
1994 – 1998	B.S., North Carolina State University, Raleigh, NC Textile Chemistry, Polymer Chemistry Concentration

Positions

2017 – present	University of Florida, Gainesville, FL <i>George Bergen Butler Professor of Chemistry</i>
2024 – present	University of Florida, Gainesville, FL <i>Member, UF Health Cancer</i>
2015 – 2017	University of Florida, Gainesville, FL <i>Professor of Chemistry</i>
2012 – 2015	University of Florida, Gainesville, FL <i>Associate Professor of Chemistry</i>
2009 – 2012	Southern Methodist University, Dallas, TX <i>Harold Jeskey Trustee Associate Professor in Chemistry</i>
2007 – 2009	Southern Methodist University, Dallas, TX <i>Harold Jeskey Trustee Assistant Professor in Chemistry</i>
2005 – 2007	Southern Methodist University, Dallas, TX <i>Assistant Professor</i>

Awards and Recognition

- Macro Group UK Medal for Outstanding Achievement (2026)
- UF Foundation Term Professorship Award (2025)
- IETI Krzysztof Matyjaszewski Award in Chemical Science & Materials Engineering (2025)
- Fellow, American Chemical Society (2025)

- Fellow, ACS Division of Polymer Chemistry (POLY) (2025)
- UF Teaching Excellence Academy (2025)
- Frontiers in Chemistry Lectureship, University of Padua, Italy (2025)
- Herman F. Mark Scholar Award, ACS POLY (2024)
- Florida Award, ACS Florida Section (2024)
- UF Innovate Intellectual Property Certificate of Achievement (2023)
- Florida Blue Key, Honorary Tapped (2023)
- UF Research Promotion Initiative Award (2023)
- Steven and Rebecca Scott Term Professor (2023)
- Covestro Distinguished Lectureship, University of Southern Mississippi (2023)
- Special Creativity Award, NSF (2022)
- UF Doctoral Dissertation Mentoring/Advising Award (2021)
- Royal Society of Chemistry Highly Cited Authors in the Americas (2021)
- CLAS nominee for Doctoral Dissertation Mentoring/Advising Awards (2020)
- Lubrizol Frontiers in Chemistry Lecturer, Case Western Reserve Univ. (2019)
- Chair - Gordon Research Conference on *Polymers* (2019)
- CLAS nominee for Doctoral Dissertation Mentoring/Advising Awards (2019)
- Vice Chair - Gordon Research Conference on Polymers (2017)
- Pioneering Investigator, Royal Society of Chemistry, *Polymer Chemistry* (2017)
- IUPAC Young Scientist Award (2016)
- ACS Biomacromolecules/Macromolecules Young Investigator Award (2015)
- PAT2015 Outstanding Junior Scientist Award (2015)
- UF Technology Innovator (2015)
- Visiting Lecturer of the Chemistry Promotion Center, Taipei, Taiwan (2015)
- Anderson Scholar, Faculty Honoree (2015)
- UF Technology Innovator (2014)
- Journal of Polymer Science Innovation Award (2014)
- Fellow, Royal Society of Chemistry (2013)
- Kavli Fellow (Frontiers of Science, National Academy of Science USA) (2011)
- Emerging Investigator, Royal Society of Chemistry, *Polymer Chemistry* (2011)
- Alfred P. Sloan Research Fellow (2010)
- Gerald J. Ford Research Fellow (2010)
- ACS Organic Young Investigator (2010)
- ACS Leadership Development Award (2010)
- NSF CAREER Award (2009)
- Emerging Investigator, Royal Society of Chemistry, *Soft Matter* (2009)
- Sam Taylor Fellowship (2007)
- Ralph E. Powe Junior Faculty Award (Oak Ridge Associated Universities) (2007)
- #1 Most referenced article published in *Macromolecules* in 2007
- National Science Foundation (NSF) Travel Award - NATO Advanced Studies Institute, Pisa, Italy (2003)
- Full academic scholarship, North Carolina State University (1994-1998)
- Joseph T. Moore Merit Award, North Carolina State University (1994-1998)
- 1st Place, Chemistry Lab competition, National Science Olympiad, Tucson, AZ (1994)

Editorial Activities

Editorships

- Associate Editor, *ACS Macro Letters* (American Chemical Society, 2015-)
- Associate Editor, *Polymer Chemistry* (Royal Society of Chemistry, 2012-2015)

Editorial Boards

- Editorial Advisory Board, *Journal of the American Chemical Society* (ACS, 2023-)
- Editorial Advisory Board, *Aggregate* (Wiley, 2024-)
- Editorial Advisory Board, *RSC Applied Polymers* (RSC, 2024-)
- Executive Editorial Advisory Board *Macromolecular Rapid Communications* (Wiley, 2022-)

- Executive Editorial Advisory Board *Macromolecular Chemistry & Physics* (Wiley, 2022-)
- Executive Editorial Board, *Giant* (Elsevier, 2020-)
- Editorial Board *Journal of Polymer Science* (2020-)
- Editorial Advisory Board, *Polymer Engineering and Science* (Wiley, 2020-)
- Editorial Advisory Board for *Chemical Science* (RSC, 2019-)
- Editorial Advisory Board for *Chem* (Cell Press, 2019-)
- Editorial Advisory Board for *Matter* (Cell Press, 2019-)
- Editorial Board for *Progress in Polymer Science* (Elsevier, 2017-)
- Editorial Board for *Polymer Chemistry* (Royal Society of Chemistry, 2010-2012)
- Editorial Advisory Board for *Macromolecules* (ACS, 2011-2014)
- Editorial Advisory Board for *ACS Macro Letters* (ACS, 2011-2014)
- Editorial Advisory Board for *Polymer Chemistry* (Royal Society of Chemistry, 2009-2010)
- Editorial Board *Journal of Polymer Science Part A: Polymer Chemistry* (2010-2019)
- Executive Editorial Advisory Board *Macromolecular Rapid Communications* (Wiley, 2011-2022)
- Executive Editorial Advisory Board *Macromolecular Bioscience* (Wiley, 2011-2022)
- Executive Editorial Advisory Board *Macromolecular Chemistry & Physics* (Wiley, 2011-2022)
- Executive Editorial Advisory Board *Macromolecular Materials & Engineering* (Wiley, 2011-2022)
- Executive Editorial Advisory Board *Macromolecular Theory & Simulations* (Wiley, 2011-2022)
- Executive Editorial Advisory Board *Macromolecular Reaction Engineering* (Wiley, 2011-2022)
- Executive Editorial Advisory Board *Macromolecular Symposia* (Wiley, 2011-2022)
- Editorial Advisory Board for *Polymer* (Elsevier, 2010-)
- Editorial Advisory Board for the *Journal of Macromolecular Science* (Taylor & Francis, 2007-)

Guest Editing

- Guest editor for manuscript in *Proceedings of the National Academy of Science* (2021-2022)
- Guest co-editor (with Cyrille Boyer and Frederik Wurm) of *Macromolecular Rapid Communications* for special issue on “Stimuli-Responsive Polymers” 2021.
- Guest co-editor (with Jean-Francois Lutz and Krzysztof Matyjaszewski) of *Macromolecular Rapid Communications* for two special issues on “Special Issue: Precisely Controlled Polymer Architectures via Molecular Engineering, Part 1,” Issue 2, 2014.
- Guest co-editor (with Jean-Francois Lutz and Krzysztof Matyjaszewski) of *Macromolecular Rapid Communications* for two special issues on “Special Issue: Precisely Controlled Polymer Architectures via Molecular Engineering, Part 2,” Issue 4, 2014.
- Co-Editor (with N. V. Tsarevsky) of RSC book *Fundamentals of Controlled Radical Polymerization* (2013)
- Guest co-editor (with Jean-Francois Lutz and Shiyong Liu) of *Macromolecular Rapid Communications* for special “Polymer Science: The Next Generation” issue, 2012
- Guest co-editor (with Rachel O'Reilly, Thomas H. Epps, and Patrick Theato) of *Chemical Society Reviews* for special “Stimuli-responsive materials” issue, 2012
- Guest co-editor (with Jan van Hest) of *Polymer Chemistry* for special “Polymer Bioconjugates” issue, 2011

Other Honors, Affiliations, & Service

Memberships

- Fellow, American Chemical Society (2025-)
- Fellow, Division of Polymer Chemistry (POLY) of the American Chemical Society (2025-)
- Founding Member, International Union of Aggregate Science (IUAS) (2025-)
- Fellow, Royal Society of Chemistry (2013-)
- Member, UF Health Cancer
- Member, George & Josephine Butler Polymer Research Laboratory (2012-)
- Member, Center for Macromolecular Science & Engineering at UF (2012-)
- Member, Nanoscience Institute for Medical and Engineering Technology (NIMET) at UF (2012-)
- Member, Center for Drug Discovery, Design, & Delivery at SMU (2011-2013)
- Member, Associazione Italiana Macromolecole (2013)
- Member, American Chemical Society (ACS) (1999-)
- Member, Division of Polymer Chemistry (POLY) of the ACS (1999-)

- Member, Division of Polymeric Materials Science & Engineering (PMSE) of the ACS (2005-)

Conferences & Symposia Organized

- Scientific Committee, Bordeaux Polymer Conference, Bordeaux, France, (2026)
- Organizer, Symposium on Post-Polymerization Modification, POLY, National ACS Meeting, San Diego, CA (2025)
- Co-organizer (with Marek Urban, Clemson University and Ying Yang, University of Nevada, Reno) for annual International Symposium on Stimuli-Responsive Materials, Windsor, CA (2024)
- Organizer, Symposium on Pushing the Limits of Macromolecular Architecture, POLY, National ACS Meeting, Denver, CO (2024)
- Organizer, Symposium for the Paul Flory Award in Polymer Education in Honor of Charles L. McCormick, POLY, National ACS Meeting, New Orleans, LA (2024)
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Windsor, CA (2023)
- Co-Organizer, Workshop on Controlled Radical Polymerization (POLY), Charleston, SC, November 2023
- Co-Organizer, Convergent Research Community Innovative Project (POLY, PMSE, CATL), "Chemical Recycling and Upcycling of Polymers" Fall 2023 ACS National Meeting, San Francisco, CA
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Windsor, CA (2022)
- Co-Chair, Tosoh Polymer Conference, Hollywood, LA, June 2022.
- Co-Organizer, Convergent Research Community Innovative Project (POLY, PMSE, CATL), "Sustainable Polymers: A Multidisciplinary Challenge" Fall 2022 ACS National Meeting, Chicago, IL.
- Co-Chair, Course in Macromolecular Science for Advanced and Sustainable Materials, Erice, Italy, July 2022.
- Co-Organizer, Advances in Macromolecular Synthesis symposium, Macromex 2021, 34th National Congress of the Mexican Polymer Society, Cancun, MX (2021)
- Co-Organizer, POLY Workshop on Controlled Radical Polymerization, Charleston, SC (2021)
- Organizer, for symposium titled ACS Award in Polymer Chemistry sponsored by ExxonMobil Company in Honor of Ken Wagener, Spring ACS National Meeting, online (2021).
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Windsor, CA (2019)
- Co-organizer (with Julien Nicolas, Université Paris Sud and Sebastian Perrier, University of Warwick) for symposium on Polymers and Soft Materials for Life Sciences at IUPAC 2019, Paris, France (2019)
- Scientific Advisory Board for Tosoh GPC2019 conference in New Orleans, LA (2019)
- Mini-Symposium in Macromolecular Science (MiniMac), University of Florida, Gainesville, FL (April 2019)
- Co-organizer (with Marek Urban, Clemson University) for International Symposium on Stimuli-Responsive Materials, Windsor, CA (2018)
- Co-organizer of "Fusion Functional Polymeric Materials IV" conference (with Thomas Epps, University of Delaware and Nathan Gianneschi, UCSD), Grand Bahama Island, Bahamas (2018)
- Co-organizer of Polymeric Biomaterials symposium at Pacific Polymer Conference (PPC), Xiamen, China (2017)
- Co-organizer of Advances in Macromolecular Synthesis symposium at 4th US-MÉXICO Binational Symposium on Advances in Polymer Science (Macromex), Los Cabos, Mexico (2017)
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA (2017) - *Cancelled due to wildfires*.
- Co-organizer (with Krzysztof Matyjaszewski (Carnegie Mellon University), Nicolay V. Tsarevsky (SMU), and Haifeng Gao (University of Notre Dame) for symposium in the Division of Polymer Chemistry for the Fall 2017 National ACS Meeting (Title: "Advances in Controlled Radical Polymerization") (2017)
- Co-organizer of conference (with Nathan Gianneschi, UCSD and Thomas Epps, University of Delaware), Rome, Italy (Title: "Fusion: Functional Polymeric Materials III" (2017)
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA (2016)

- Co-organizer (with Eva Harth, Vanderbilt University) for the Zing Polymer Chemistry conference, Dublin, Ireland (2016)
- Co-organizer (with Heather Maynard, UCLA) of symposium at the Pacific Polymer Conference in Kauai, Hawaii (Title: "Polymers in Medicine & Biology") (2015)
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA (2015)
- Co-organizer of conference (with Nathan Gianneschi, UCSD), Ascot, UK (Title: "Fusion: Functional Polymeric Materials II") (2015)
- Organizer of symposium for the Conference of Polymers for Advanced Technology, Zhejiang, China (Title: "Smart materials, bioinspired materials, and devices") (2015)
- Co-organizer (with David Haddleton, U. Warwick and Wei You, UNC) for symposium at the Spring 2015 National ACS Meeting (Title: "Celebrating the Five-Year Anniversary of *Polymer Chemistry* (RSC)")
- Co-organizer (with Angel Licea Claverie) for SYNTHESIS session of Macromex (co-sponsored by the Mexican Polymer Society and the POLY Division of the ACS), Riviera Nayarit, Mexico (2014)
- Co-organizer (with Eva Harth, Vanderbilt University) for the Zing Polymer Chemistry conference, Cancún, Mexico (2014)
- Co-organizer (with Marek Urban, Clemson University) for International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA (2014)
- Co-organizer (with Krzysztof Matyjaszewski (Carnegie Mellon University) and Nicolay V. Tsarevsky (SMU)) for symposium in the Division of Polymer Chemistry for the Fall 2014 National ACS Meeting (Title: "Advances in Controlled Radical Polymerization")
- Co-organizer (with Prof. David Fulton of Newcastle University) for symposium at the 2014 National Meeting of the ACS (Title: "Dynamic-Covalent Polymeric Materials")
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA (2013)
- Co-organizer (with Marek Urban, Clemson University) for annual International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA (2012)
- Co-organizer (with Nicolay Tsarevsky (SMU) and Eric Simanek (Texas A&M)) for symposium for the 2011 Southwest Regional Meeting of the ACS (Title: "Supramolecular and Dynamic-Covalent Materials")
- Co-organizer (with Krzysztof Matyjaszewski (Carnegie Mellon) and Nicolay V. Tsarevsky (SMU)) for symposium in the Division of Polymer Chemistry for the Fall 2011 National ACS Meeting (Title: "International Year of Chemistry: Controlled Radical Polymerization")
- Co-organizer (with Craig J. Hawker (UCSB) and Jean-Francois Lutz) for symposium in the Division of Polymer Chemistry for the Spring 2008 National ACS Meeting (Title: "Efficient Chemical Transformations in Polymer Chemistry: Click Chemistry and Beyond")

External Service

- Thrust Leader, Center for Plastics Innovation, U.S. DOE Energy Frontier Research Center (2024-)
- Member, International Scientific Committee, Ecole Supérieure de Physique et Chimie Industrielle de la ville de Paris (ESPCI Paris) (2025-)
- Scientific Advisory Board, Grove Biopharma (Chicago, IL) (2023-2025)
- Member, review panel for user proposals to NSF BioPacific Center (2023-)
- Member, POLY Division (ACS) Webinar Committee (2019-2025)
- Chair, Polymer Science Panel of the ACS PRF Committee (2021, 2023)
- Member, Polymer Science Panel of the ACS PRF Committee (2022)
- Chair, Polymer Science Panel of the ACS PRF Committee (2021)
- Member, External Advisory Board of the NSF Center for Sustainable Polymers at the University of Minnesota (2020-2022)
- Member, Polymer Science Panel of the ACS PRF Committee (2019-2022)
- Co-Chair, POLY Division (ACS) Webinar Committee (2019-2021)
- National Co-Coordinator for student POLY/PMSE chapters of the ACS (2016-2017)
- Advisory Board for Conference on Polymers for Advanced Technology 2017, Manchester, UK (2017)
- Alternate Councilor (elected), Division of Polymer Chemistry (POLY) of the ACS (2017-2019)
- Chair, Membership Committee, Division of Polymer Chemistry (POLY) of the ACS (2017-2019)

- Alternate Councilor (elected), Division of Polymer Chemistry (POLY) of the ACS (2014-2016)
- Member, International Advisory Board for Technology and Medicine: Adaptive Systems (TMAS) Conference, University of Potsdam - Campus Griebnitzsee, Germany (2016)
- External examiner for PhD thesis at University of Warwick (x1), University of New South Wales (x6), University of Sydney (x1), University of Queensland (x2), University of Catania (x4)
- Member, Scientific Advisory Board for the Department of Textile Engineering, Chemistry, and Science at North Carolina State University (2013-)
- Chairman, Young Chemist Committee for the Dallas/Fort Worth Section of the ACS, 2007-2012
- Board of Directors, Beal Bank Dallas Regional Science & Engineering Fair (2006-2012)
- Reviewer for manuscripts/proposals to National Science Foundation| Petroleum Research Fund of the American Chemical Society| Research Corporation | U.S. Civilian Research and Development Foundation | *ACS Appl. Polym. Mater.* | *ACS Appl. Mat. Interf.* | *ACS Macro Lett.* | *ACS Nano* | *Adv. Drug Delivery Rev* | *Adv. Mater.* | *Anal. Chem.* | *Angew Chem. Int. Ed.* | *Aust. J. Chem.* | *Bioconjugate Chem.* | *Biomacromolecules* | *Chem.* | *Chem. Commun.* | *Chem. Mater.* | *Chemical Sci.* | *ePolymers* | *Euro. Polym. J.* | *Israel J. Chem.* | *J. Am. Chem. Soc.* | *J. Appl. Polym. Sci.* | *J. Colloid Interf. Sci.* | *J. Macromol. Sci, Pure Appl. Chem.* | *J. Mater. Chem.* | *J. Org. Chem.* | *J. Polym. Sci., Part A: Polym. Chem. Ed.* | *Langmuir* | *Macromolecules* | *Macromol. Chem. Phys.* | *Macromol. Rapid Commun.* | *Matter* | *Nature Chemistry* | *Nature Commun.* | *Materials* | *Polymer* | *Polym. Bull.* | *Polym. Chem.* | *Polym. Rev.* | *Prog. Polym. Sci.* | *Pure Appl. Chem.* | *QSAR & Comb. Sci.* | *RSC Advances* | *Science* | *Sci. Adv.* | *Soft Matter*

Internal Service

- Member, Review panel for ROSF proposals (2025)
- Co-organizer, UF Polymer Summit (2025)
- Chair, Search committee for polymer chemistry faculty member (2025-2026)
- Member, Hiring committee for Assistant Scientist associated with the Polymer Chemistry Characterization Laboratory (PCCL) (2025-2026)
- Co-Organizer, UF Polymer Science Summit, campus-wide collaboration meeting (2025)
- Member, Michelin Undergraduate Scholarship selection committee (2024-)
- Director, George & Josephine Butler Polymer Research Laboratory (2017-)
- Director, Center for Macromolecular Science & Engineering (2023-)
- Chair, Polymer Chemistry faculty search committees (UF, 2023-2024)
- Chair, Jones Award committee (UF, 2023)
- Member, Faculty Merit Committee, Department of Chemistry (UF, 2023-)
- Member, Design and Planning committee for UF Biomedical and Life Science Building (2023)
- Member, Open Tenure Track Search Committee (2022-2023)
- Chair, Jones Award committee (UF, 2022)
- Department of Materials Science and Engineering Faculty Mentor Program (2022-)
- Chair, External/Alumni Relations committee (UF, 2022-)
- Chair, Polymer Chemistry faculty search committees (UF, 2021-2022)
- Chair, Jones Award committee (UF, 2021)
- Member, External/Alumni Relations committee (UF, 2021-22)
- Chair, Jones Award committee (UF, 2020)
- Chair, Polymer Chemistry faculty search committees (UF, 2019-2020)
- Member, Leadership Board Liaison Committee (UF, 2018-)
- Member, Energy & Materials faculty search committees (UF, 2018-2019)
- Member, General Chemistry Lecturer search committee (UF 2017-2018)
- Member, Tenure and Promotion Committee, College of Liberal Arts & Sciences (UF, 2017-2018)
- Member, Faculty Recruitment Advisory Committee, Department of Chemistry (UF, 2017-)
- Chair, Jones Award committee (UF, 2017)
- Member, Faculty Merit Committee, Department of Chemistry (UF, 2017-2020)
- Chair, Spectroscopy Services Committee, Department of Chemistry (UF, 2014-2022)
- Member, Technical Facilities Committee, Department of Chemistry (UF, 2014-)
- Member, Graduate Selections and Recruiting, Department of Chemistry (UF, 2012-)
- Chair, Department of Chemistry search committee for the Steven & Rebecca Scott Chair of Chemical Biology (2015-2016)
- Member, Department of Chemistry search committee for Associate/Full Professor of Inorganic Chemistry (2015)

- Chair, Department of Chemistry search committee for two Smart Polymer Nanomedicine UF preeminence positions (2014-)
- Member, Department of Biomedical Engineering search committee for two Smart Polymer Nanomedicine UF preeminence positions (2014-)
- Member, Search committee for Steven & Rebecca Scott Chair of Chemical Biology (UF, 2013-2014)
- Member, Graduate Advising, Department of Chemistry (UF, 2014-2015)
- Member, Broadening Participation Committee, Department of Chemistry (UF, 2012-2013)
- Chemistry Graduate Admissions Committee, 2005-2012 (SMU)
- Faculty Advisor – UF POLY/PMSE Student Chapter of the ACS, 2012-
- Faculty Advisor - SMU Chemistry Society (ACS student affiliate), 2007-2012
- Search committee for Associate Vice President of Research Administration, 2009 (SMU)
- Faculty Senate Subcommittee on Research, 2009-2012 (SMU)
- Pure and Applied Science Curriculum Committee, 2010-2012 (SMU)
- Provost's Taskforce on Graduate Education, 2010-2012 (SMU)
- President's Scholars Interviewer, 2007, 2008 (SMU)

Books Edited/Authoried

1. *Reversible Deactivation Radical Polymerization: Materials and Applications*; Matyjaszewski, K., Gao, H., Sumerlin, B. S., Tsarevsky, N. V.. Eds.; ACS Symposium Series 1285; American Chemical Society, Washington, DC, 2018.
2. *Reversible Deactivation Radical Polymerization: Mechanisms and Synthetic Methodologies*; Matyjaszewski, K., Gao, H., Sumerlin, B. S., Tsarevsky, N. V.. Eds.; ACS Symposium Series 1284; American Chemical Society, Washington, DC, 2018.
3. *Controlled Radical Polymerization: Materials*; Matyjaszewski, K., Sumerlin, B. S., Tsarevsky, N. V., Chiefari, J. Eds.; ACS Symposium Series 1188; American Chemical Society: Washington, DC, 2016.
4. *Controlled Radical Polymerization: Mechanisms*; Matyjaszewski, K., Sumerlin, B. S., Tsarevsky, N. V., Chiefari, J. Eds.; ACS Symposium Series 1187; American Chemical Society: Washington, DC, 2016.
5. *Fundamentals of Controlled/Living Radical Polymerization*; Tsarevsky, N.; Sumerlin, B. S., Eds.; Royal Society of Chemistry: Cambridge, U.K., 2013
6. *Progress in Controlled Radical Polymerization: Materials and Applications*; Matyjaszewski, K., Sumerlin, B. S., Tsarevsky, N. V., Eds.; ACS Symposium Series 1101; American Chemical Society: Washington, DC, 2012.
7. *Progress in Controlled Radical Polymerization: Mechanisms and Techniques*; Matyjaszewski, K., Sumerlin, B. S., Tsarevsky, N. V., Eds.; ACS Symposium Series 1100; American Chemical Society: Washington, DC, 2012.

Peer-Reviewed Publications

Citation data from *Google Scholar* (March 2026)

Citations = 34,000+

h-index = 95

1. Sean R. Gitter, Gerald A. Camarella, Rhys W. Hughes, Graham C. Gilchrist, Joshua D. Marquez, Brent S. Sumerlin, Austin M. Evans "Physicochemical Reaction Control Enables Molar-Mass-Selective Macromolecular Electrolysis" *Submitted*.
2. Jessica Xhumari, Ariana Tamura, Amanda Ojeda, Oluwamayowa S. Akinsuyi, Diego Pedro, Christian Jobin, Ye Yang, Francesco P. Boeno, Orlando Laitano, Marta Reguera Gomez, Jorge Frias-Lopez, Wallace G. Sawyer, Brent S. Sumerlin, Luiz Fernando W. Roesch "Synthetic Mucin Restores Host-Microbe and Metabolic Signaling to Alleviate Intestinal Inflammation" *In revision*.
3. Lucca Trachsel, Kevin A. Stewart, Jason D. Hillman, Brent S. Sumerlin "Dynamic Diketoenamine Crosslinking Unlocks Vinyl Polymer Vitrimers from β -Triketone Chemistry" *In revision*.
4. Senthikumar Duraivel, Sofia Goodrich, Vignesh Subramaniam, Madison Ross, Brent Sumerlin, Thomas Angelini "Thermo-transitioning core-shell microgels combine cohesive reinforcement and non-cohesive reconfigurability to enable 3D bioprinting and stabilize tissues during incubation" *ACS Biomaterials Science & Engineering*, DOI: 10.1021/acsbiomaterials.5c02038.
5. Megan E. Lott, Nathan D. Rosenmann, Cabell B. Eades, Jared I. Bowman, Florencia Merlino, Nathan C. Gianneschi, Brent S. Sumerlin "RAFT Aqueous Emulsion Polymerization Observed by Transmission Electron Microscopy" *Journal of the American Chemical Society*, in press.
6. Yanru Zhao, Cabell B. Eades, Peng Yu, Xinjin Li, Xianye Li, Brent S. Sumerlin "Photocatalytic Surface Grafting of Hydrophobic Shells onto Hydrogels" *Chemical Communications* **2026**, DOI: 10.1039/D6CC00575F.
7. Dibakar Das, A M Mahmudul Hasan, Rupam Roy, Ani N. Davis, Kiana A. Treaster, Sean R. Gitter, Swapnani Goswami, Thanmayee Shastri, Benjamin Atterberry, Thomas H. Epps III, Clifford R. Bowers, Brent S. Sumerlin, Austin M. Evans "Surface-Functionalized, Two-Dimensional Polymer Electrochromic Layers as Ultrafast, Multi-State Infrared Optical Gates" *Journal of the American Chemical Society*, in press.
8. Nathan D. Rosenmann, Joanna Korpany, Lauren M. Irie, Eric W. Roth, Reiner Bleher, Jitendra P. Mata, Nehal Nupar, Kathleen Wood, Yu Chen, Brent S. Sumerlin, Michael J. A. Hore, Nathan C. Gianneschi "Prediction of Rheological Properties via Structure Elucidation of Solvated Hydrogels" *Nature Materials* **2026**, DOI: 10.1038/s41563-026-02491-z.
9. Rhys W. Hughes, Graham C. Gilchrist, Cabell B. Eades, Sean R. Gitter, Lauren M. Bishop, Kaitlin Slicker, Austin M. Evans, Brent S. Sumerlin "Selective Electrochemical End-Group Removal Enhances Polymer Thermal Stability" *Angewandte Chemie International Edition* **2026**, e22667.
10. Graham C. Gilchrist, Rhys W. Hughes, Tanmoy Maity, Sean R. Gitter, Nikta Izadi, Joshua D. Marquez, James B. Young, Austin M. Evans, Brent S. Sumerlin "Electrochemically Initiated Depolymerization of Poly(Methyl Methacrylate)" *Journal of the American Chemical Society* **2026**, 148, 3336-3342.
11. Pampa Chowdhury, Biswajit Saha, Kamal Bauri, Brent S. Sumerlin, Priyadarsi De "Upper Critical Solution Temperature (UCST) Behaviour of Pyroglutamate-Functionalized Non-Ionic Homopolymers: Cosolvency in Water/Alcohol Binary Solutions" *Polymer Chemistry* **2026**, 17, 444-455.
12. Tanmoy Maity, Don X. Bones, Rhys W. Hughes, Kaden C. Stevens, William M. Gramlich, Brent S. Sumerlin "Depolymerization of Vinyl Polymers" *ACS Macro Letters* **2026**, 15, 17-32.
13. Sean R. Gitter, Cabell B. Eades, Megan E. Lott, Rhys W. Hughes, Austin M. Evans, Brent S. Sumerlin, "Decarboxylation-Triggered Polymer Deconstruction," *ACS Polymers Au* **2025**, 5, 669-679.
14. Joshua D. Marquez, Gunzaya Otgonjargal, Kevin A. Stewart, A. M. Mahmudul Hasan, Graham C. Gilchrist, Brent S. Sumerlin, Austin M. Evans, "Latently Curable Ultra-High Molecular Weight

Polymers as Dimensionally Stable Monoliths” *Chemistry of Materials* **2025**, *24*, 9985-9992.

15. Rhys W. Hughes, Brent S. Sumerlin “Electrochemical Upcycling of Polyolefins into Adaptable Networks” *Nature Synthesis* **2025**, *4*, 1483-1484.
16. Thi H. Le, Kevin A. Stewart, Cabell B. Eades, Jared I. Bowman, Nathan B. Wei, Brent S. Sumerlin “Vitrimers Nanocomposites from Polymerization-Induced Self-Assembly” *Advanced Materials* **2025**, *38*, e12303.
17. Kaden C. Stevens, Megan E. Lott, Kiana A. Treaster, Robert M. O’Dea, Adarsh Suresh, Cabell B. Eades, Victoria L. Thompson, Jared I. Bowman, James B. Young, Austin M. Evans, Stuart J. Rowan, Thomas H. Epps, III, Brent S. Sumerlin “Depolymerization as a Design Strategy: Depolymerization Etching of Polymerization-Induced Microphase Separations” *ACS Central Science* **2025**, *11*, 2366-2374.
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 39. Brent S. Sumerlin, Paul A. Stroud, Andrew B. Lowe, Charles L. McCormick "Modification of Gold Films with Water-Soluble Copolymers Prepared via Aqueous RAFT" *Polymer Preprints* **2003**, 44(1).
 40. Brent S. Sumerlin, Michael S. Donovan, Yoshiro Mitsukami, Andrew B. Lowe, Charles L. McCormick "The Synthesis of Well-Defined Water-Soluble (Co)polymers for the Stabilization of Gold Nanoparticles" *Polymer Preprints* **2002**, 43(2), 313.
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Patents & Trademarks

1. Brent S. Sumerlin, Amanda Evelyn Ojeda, Luiz Fernando Wurdig Roesch, Ariana Tamura "Compositions and Methods for Treating Cervicovaginal Conditions" Provisional Patent Application No. 63/852,867 (2025).
2. Kaden C. Stevens, Jared I. Bowman, Cabell B. Eades, Megan Lott, James B. Young, Brent S. Sumerlin "Depolymerization Etching of Polymerization-Induced Microphase Separations" Coversheet Provisional Patent Application Serial No. 63/818,785 (2025)
3. Young, J. B.; Hughes, R. W.; Garrison, J. B.; Sumerlin, B. S.; "Polymers and Methods of Depolymerization of Polymers Using Chain-End Initiation" 18/926,955, October 2024.
4. Diodati, Lily; Sumerlin, Brent S. "Polymers and Methods of Making and Using Polymers" U.S. Patent Application (2024), Provisional Patent Application Serial No. 63/662,465 (2024) and WO 2025/155868 A1 (2025).
5. Luiz Fernando Wurdig Roesch, Brent S. Sumerlin, and Wallace Gregory Sawyer "Compositions Comprising Synthetic Mucins and Uses Thereof" Provisional Patent Application (2024), Serial No. 63/653,036.
6. Brent S. Sumerlin, Wallace Gregory Sawyer, Cullen Lee Garrett Davidson, Diego Ivan Pedro, Ariana Tamura "High Molecular Weight Polymers and Methods of Making the Same" Provisional Patent Application (2024), Serial No. 63/653,027.
7. Matthew Green, Brent S. Sumerlin, Megan Robertson, Kacie Niimoto "A Recyclable Covalent Adaptable Network for Direct Air Capture and Method for Producing and Using the Same" US Provisional Patent Application (2024), Serial No. 63/621,091.
8. Rhys William Hughes, Megan Lott, James Bailey Young, Jared Bowman, Kaden Cole Stevens, Kevin Anthony Stewart, Brent S. Sumerlin "Polymers and Methods of Depolymerization of Polymers Using Pendent Groups" Provisional Patent Application (2024) Serial No. 63/592,944.
9. Kevin A. Stewart, Daniel D. DeLellis, Jacob J. Lessard, John F. Rynk, Brent S. Sumerlin "Dynamic Ablative Networks" U.S. Patent Application (2023). Provisional Patent Application Serial No. 63/472,696. PCT/US2023/084486

10. Cullen Lee Garrett Davidson, Megan Lott, Rebecca Olson, Diego Ivan Pedro, Wallace Gregory Sawyer, Brent S Sumerlin "Ultra-High Molecular Weight Polymers and Methods of Using the Same" Provisional Patent Application Serial No. 63/336,733.
11. Brent S. Sumerlin, Cullen Lee Garrett Davidson, Wallace Gregory Sawyer, Juan Manuel, Urueña Vargas "Ultra-High Molecular Weight Polymers and Methods of Using the Same" U.S. Application No. US-2023-0076717-A1, WO 2023/034765 A2, Published, March 9, 2023.
12. W. Gregory Sawyer, Brent S. Sumerlin, Duy T. Nguyen, Jared Ian Bowman "Microgels, Methods of Making Microgels and Methods of Using Microgels" PCT/US2022/081792, WO 2023/122497 (2022)
13. Carlos Rinaldi, Brent S. Sumerlin, Hao Sun "Magnetic Particle Conjugates, Micelles, and Methods of Delivering Agents" US 11,311,630 B2 (2022).
14. Adam S. Veige, Digvijayee Pal, Brent S. Sumerlin "Catenated Cyclic Polymers and Methods of Making thereof" U.S. Patent Application 63/422,101 (2022).
15. Thomas E. Angelini, Glyn D. Palmer, Jon P. Dobson, Peter S. McFetridge, Clayton E. Mathews, Brent S. Sumerlin, Steven Chisolm, Vignesh Subramaniam, Carolina E. Abraham, Andreas Baudy "Compositions, Systems, And Methods Relating To Three-Dimensional (3D) Bioprinted Liver Tissue Models" U.S. Application No. 63/252,334, 18/395,063.
16. Thomas E. Angelini, Brent S. Sumerlin, Christopher S. O'Bryan, W. Gregory Sawyer, Tapomoy Bhattacharjee "Organic Microgel System for 3D Printing of Silicone Structures" U.S. patent US 11,124,644 B2 (2021).
17. W. Gregory Sawyer, Brent S. Sumerlin, Duy T. Ngyuen, Jared A. Bowman "Surface Functionalization of Liquid Like Solids with Proteins and Biologics for Biomedicine" Invention disclosure filed to UF OTL, July 2021.
18. Brent Sumerlin, Cullen Lee Garrett Davidson, Juan Manuel Urueña Vargas, and W. Gregory Sawyer "SLIPS" (Shear-Labile Interaction Polymers) - Polymers and polymeric additives for mimicking and supplementing the role of natural mucins. Serial No.: 90/746,567. Filed with USPTO June 1, 2021.
19. Brent S. Sumerlin, William L.A. Brooks, Christopher Deng "Boronic acid monomers and methods of making boronic acid monomers" U.S. Provisional Patent Application US Patent No. 11,001,675 B2 (2021)
20. Adam Veige, Zhihui Miao, Brent S. Sumerlin "Method for Removing Acetylene from Ethylene Gas Streams During Polyethylene Synthesis" U.S. Patent Application No.: US 2021/0094896 A1 (2021).
21. Thomas E. Angelini, Jon P. Dobson, Senthiljumar Duraivel, Brent S. Sumerlin "Ultra-Low Interfacial Tension Support Medium for High Precision Silicone 3D Printing" U.S. Provisional Patent Application Serial No. 63/039,209 (2020)
22. Carlos Rinaldi, Brent S. Sumerlin, Hao Sun "Magnetic Particle Conjugates, Micelles, and Methods of Delivering Agents" US 10,765,744 B2 (2020).
23. Carlos Rinaldi, Brent S. Sumerlin, Hao Sun "Magnetic Particle Conjugates, Micelles, and Methods of Delivering Agents" US 16/093,370. PCT/US2017/028852, US-2019-0290761-A1, continuation 2020/0353095 A1 (2020).
24. Brent S. Sumerlin, Shaun Jensen, Megan R. Hill, Mingsheng Chen, Gloria Moore, Zhenli He, Sangwoo Park, "Stimuli-Responsive Polymeric Nanoparticles, Methods of Making Stimuli-Responsive Polymeric Nanoparticles, and Methods of Using Stimuli-Responsive Polymeric Nanoparticles" U.S. Patent Application US 2020/0352161 A1 (2020).
25. Brent S. Sumerlin, Gregory Wallace Sawyer, Thomas Ettor Angelini, Christopher P. Kabb "Crosslinkable of Functionalizable Polymers for 3D Printing of Soft Materials" U.S. Patent 10,814,605 (2020).

26. Carlos Rinaldi, Brent S. Sumerlin, Hao Sun "Magnetically Triggered Magnetofectins" Patent application US Patent No. 10765744 (2020).
27. Thomas E. Angelini, Brent S. Sumerlin, Christopher S. O'Bryan, Georg Scheutz "Compositions, Methods, Kits, and Systems Relating to Charge-Neutral Microgels for 3D Cell Culture and Printing" U.S. Provisional Patent Application 62/983,056. (2019)
28. W. Gregory Sawyer, Sangwoo Park, Christopher S. O'Bryan, Christopher P. Kabb, Brent S. Sumerlin, Thomas E. Angelini "Microgel particles for use in 3D printing and 3D cell growth medium and related compositions, systems, and methods" U.S. Provisional Patent Application US62616107 (2018).
29. Brent S. Sumerlin, Wallace Gregory Sawyer, Thomas Ettore Angelini, Christopher P. Kabb "Crosslinkable or Functionalizable Polymers for 3D Printing of Soft Materials" Provisional U.S. patent application US 62/263,524 and PCT/US2016/064771 (US-2018-02373743-A1) (2018).
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31. Kenneth B. Wagener, Michael D. Schulz, Chelsea A. Sparks, Christopher D. Batich, Wesley E. Bolch, Shanna M. Smith, Brent S. Sumerlin, Patricia R. Bachler, Rowan J. Milner, Michael Kwan, Sammy Popwell "Polymeric Metal Chelators Based on Linear Polyethyleneimine" U.S. Pat. Appl. (2014) U62/081,049.
32. Michael Schulz, Kenneth B. Wagener, Brent S. Sumerlin, Christopher D. Batich, Chelsea Sparks, Wesley E. Bolch, Rowan Miller, Shanna Smith, Michael Kwan, Patricia Bachler "Amino-bis-phosphonate-Containing Polymers via RAFT Polymerization" U.S. Pat. Appl. (2014) US61/952,681. PCT/US2015/019892.
33. Brent S. Sumerlin, Debashish Roy, Jennifer N. Cambre "Boronic Acid-Containing Block Copolymers in Controlled Drug Delivery" U.S. Pat. Appl. Publ. (2010), US 2010029545 A1 20100204 CAN 152:216283 AN 2010:151338.
34. Andrew B. Lowe, Brent S. Sumerlin, Charles L. McCormick. "Preparation of Transition Metal Nanoparticles and Surfaces Modified (Co)Polymers Synthesized by RAFT" US 7417096.
35. Krzysztof Matyjaszewski; Brent S. Sumerlin; Nicolay Tsarevsky; James Spanswick "Preparation of functional polymers" US7795355, WO 2005087818,
36. Charles L. McCormick, Michael S. Donovan, Andrew B. Lowe, Brent S. Sumerlin, David B. Thomas "Chain Transfer Agents for RAFT Polymerization in Aqueous Media" US 6855840.
37. Charles L. McCormick, Michael S. Donovan, Andrew B. Lowe, Brent S. Sumerlin, David B. Thomas "Chain Transfer Agents for RAFT Polymerization in Aqueous Media" US 7179872.
38. Charles L. McCormick, Michael S. Donovan, Andrew B. Lowe, Brent S. Sumerlin, David B. Thomas "Chain Transfer Agents for RAFT Polymerization in Aqueous Media" US 7186786.
39. Andrew B. Lowe, Brent S. Sumerlin, Charles L. McCormick "Preparation of transition metal nanoparticles and surfaces modified with (Co)polymers synthesized by RAFT" US 7138468.

Presentations and Contributions to Meetings (presenting author in **bold**)

1. **Efkan Çatiker** and Brent Sumerlin "Novel Semi-telechelic Macromonomers for Click Chemistry" International Conference on Materials Science and Information Technology, Istanbul, Turkey November 2026.

2. **Brent S. Sumerlin**, Kaden C. Stevens, Megan E. Lott, Kiana A. Treaster, Robert M. O'Dea, Adarsh Suresh, Cabell B. Eades, Victoria L. Thompson, Jared I. Bowman, James B. Young, Austin M. Evans, Stuart J. Rowan, Thomas H. Epps III "Decarboxylation for selective block copolymer deconstruction" ACS National Meeting, Atlanta, GA March 2026. *Invited*.
3. **Payson Keown**, Rhys W. Hughes, Tanmoy Maity, Leah Baker, Isabella Zastrow, Mansi Patel, and Brent S. Sumerlin "Hydroxyl-yne click reaction as a post-polymerization strategy for dynamic covalent networks" ACS National Meeting, Atlanta, GA March 2026. *Invited*.
4. **Joshua D. Marquez**, Kevin Stewart, Kaden C. Stevens, Gunzaya Otonjargal, Brent S. Sumerlin, and Austin M. Evans "Ultrahigh-molecular-weight polystyrenics with tunable entanglement molecular weights as latently curable and dimensionally stable monoliths" ACS National Meeting, Atlanta, GA March 2026. *Invited*.
5. **Brent S. Sumerlin** "Well-Defined Ultra-High Molecular Weight Polymers: From Multifunctional Materials to Mucosal Medicine" Department of Chemistry seminar, Colorado State University, Fort Collins, CO March 2026. *Invited*
6. **Brent S. Sumerlin** "Depolymerization as a Design Strategy: Depolymerization Etching of Polymerization-Induced Microphase Separations" Department of Chemistry seminar, Wake Forest University, Winston Salem, NC, February 2026. *Invited*
7. **Brent S. Sumerlin** "Leveraging responsive behavior to facilitate UHMW polymer synthesis" 2025 International Chemical Congress of Pacific Basin Societies (Pacifichem), Honolulu, HI, December 2025. *Invited*.
8. **Brent S. Sumerlin** "Decarboxylation approaches for vinyl polymer deconstruction" 2025 International Chemical Congress of Pacific Basin Societies (Pacifichem), Honolulu, HI, December 2025. *Invited*.
9. **Brent S. Sumerlin** "Well-Defined Ultra-High Molecular Weight Polymers: From Multifunctional Materials to Mucosal Medicine" 39th Australasian Polymer Symposium, Canberra, Australia, December 2025. *Plenary*.
10. **Ariana M. Tamura**, Amanda E. Ojeda, Jessica Xhumari, Rohan Jena, Andrei Potapenko, Kyle Stiles-Ryan, Jennifer K. Mulligan, Luiz F. W. Roesch, Brent S. Sumerlin "From the nose to the vagina: Treating mucin deficiencies with shear-labile interaction polymers (SLIPs)" International Symposium on Stimuli-Responsive Materials (ISSRM) 2025, Sonoma, CA, Oct 2025. *Poster*.
11. **Rhys W. Hughes**, Tanmoy Maity, Timothée Sergent, Alex H. Balzer, Isabella S. Zastrow, Mansi S. Patel, Leah M. Baker, Payson M. Keown, Lexie Handlin, Frank A. Leibfarth, LaShanda T. J. Korley, Brent S. Sumerlin "Cross-Disciplinary Solutions for Transforming Plastic Waste into Chemical Feedstocks: Tailored Triggers and Thermal Depolymerization Mechanisms", Department of Energy, November 2025. *Oral*.
12. **Cabell B. Eades**, Danyella E. Cabrera, Micayla K. Vereb, Geoffrey G. Smith, Seungyoon Han, Brent S. Sumerlin "Using α -Lipoic Acid to Synthesize Degradable Nanocarriers via PISA" UF NanoDay 2025, Gainesville, FL. October 2025. *Oral*.
13. **Thi H. Le**, Kevin A. Stewart, Cabell B. Eades, Jared I. Bowman, Nathan B. Wei, Brent S. Sumerlin "Vitrimers Nanocomposites from Polymerization-Induced Self-Assembly" UF NanoDay 2025, Gainesville, FL. October 2025. *Poster*.
14. **Seungyoon Han**, Cabell B. Eades, Brent S. Sumerlin "Tuning polymer nanoparticle morphologies via photochemical decarboxylation" UF NanoDay 2025, Gainesville, FL. October 2025. *Poster*.
15. **Brent S. Sumerlin** "Photomediated Synthesis of Ultra-High Molecular Weight Polymers for Advanced and Programmable Circular Materials" Photopolymerization Fundamentals, Boulder, CO

September 2025. *Plenary*.

16. **Brent S. Sumerlin** "Depolymerization of non-polyolefin vinyl polymers" DOE EFRC: Center for Plastics Innovation, University of Delaware, Newark, DE, September 2025.
17. **Brent S. Sumerlin** "Mucosal medicine with ultra-high-molecular-weight water-soluble polymers" National ACS Meeting, Washington, DC, August 2025. *Invited*.
18. **Brent S. Sumerlin** "Decarboxylative Approaches for Vinyl Polymer Deconstruction" *National ACS Meeting*, Washington, DC, August 2025. *Invited*.
19. **Brent S. Sumerlin** "Expanding Macromolecular Boundaries via Photoiniferter Polymerization" National ACS Meeting, Washington, DC, August 2025. *Invited*.
20. **Tristan Clemons**, Evan Stacy, Kaden Stevens, Jeff Aguinaga, Derek Patton, Brent S. Sumerlin "Aqueous Photoiniferter Polymerization of Acrylonitrile" National ACS Meeting, Washington, DC, August 2025. *Invited*.
21. **Kaden C. Stevens**, Megan E. Lott, Kiana A. Treaster, Robert M. O'Dea, Adarsh Suresh, Cabell B. Eades, Victoria L. Thompson, Jared I. Bowman, James B. Young, Austin M. Evans, Stuart J. Rowan, Thomas H. Epps III, Brent S. Sumerlin "Depolymerization as a Design Strategy: Depolymerization Etching of Polymerization Induced Microphase Separations" National ACS Meeting, Washington, DC, August 2025. *Oral*.
22. **Lauren M. Bishop**, Kevin A Stewart, Sean R. Gitter, Krisada Aupattana-Aumrung, Alex Balzer, Heyi Liang, Jared Bowman, Juan J. de Pablo, LaShanda TJ Korley, Brent S. Sumerlin "Expanding the range of pendent depolymerization triggers in vinyl polymers" National ACS Meeting, Washington, DC, August 2025. *Poster*.
23. Rhys W. Hughes, Tanmoy Maity, Timothée Sergent, Alex H. Balzer, Isabella S. Zastrow, Mansi S. Patel, Leah M. Baker, Payson M. Keown, Lexie Handlin, Frank A. Leibfarth, LaShanda T. J. Korley, **Brent S. Sumerlin** "Cross-Disciplinary Solutions for Plastics Circularity: Tailored Triggers and Thermal Depolymerization Mechanisms" U.S. Department of Energy: Energy Frontiers Research Center PI Meeting, Bethesda, MD, August 2025.
24. **Brent S. Sumerlin** "'Advancing Functional Polymer Design and Applications through Precision Synthesis and Deconstruction" Gordon Research Conference on Polymers. South Hadley, MA, June 2025. *Invited*.
25. **Brent S. Sumerlin** "Well-Defined Ultra-High Molecular Weight Polymers: From Multifunctional Materials to Mucosal Medicine" Southeast Polymer Forum, Athens, GA May 2025. *Invited*.
26. **Brent S. Sumerlin** "Well-Defined Ultra-High Molecular Weight Polymers: From Multifunctional Materials to Mucosal Medicine," Advanced Polymers via Macromolecular Engineering, Catania, Italy, May 2025. *Plenary*.
27. **Brent S. Sumerlin** "Harnessing Photochemistry for Polymer Precision and Sustainability", Frontiers in Chemistry Seminar, Department of Chemical Sciences, University of Padova, Padova, Italy, April 2025. *Invited*.
28. Amanda E. Ojeda, **Ariana M. Tamura**, Jacqueline A. Anatot, Marissa Veeravagu, Luiz F. W. Roesch, Brent S. Sumerlin "A CTS Approach for SHINE-VH Barrier Technology: Design and Application of a Novel Vaginal Mucosal Barrier Against Bacterial Vaginosis" Association for Clinical and Translational Science National Meeting, Washington, DC, April 2025.
29. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Departmental Seminar, Department of Chemistry, University of Texas, Austin, TX, April 2025. *Invited*.

30. Yuxing Liang, Kiana Treaster, Ayan Majumder, Manoj Settipalli, Kanishka Panda, Shravan Godse, Rupam Roy, Ratul Mali, Zhongyang Zhong, Yuxuan Luan, Brent Sumerlin, Edgar Meyhofer, Pramod Reddy, Alan J. H. McGaughey, Austin M. Evans, **Jonathan A. Malen** "Thermal Transport in Two-Dimensional Polymers and Polymer Chains with Tacticity Control" Materials Research Society National Meeting, Seattle, WA, April 2025.
31. **Brent S. Sumerlin** "Efficient deconstruction methods for vinyl polymers" National ACS Meeting, San Diego, CA, March 2025. *Invited*.
32. **Lucca Trachsel**, Jason D. Hillman, Ferdinando De Luca Bossa, Cullen L. G. Davidson IV, Brent S. Sumerlin, Krzysztof Matyjaszewski "Precision Control of Size, Architecture and Tacticity in Ultra-High Molecular Weight Polymers via Photoiniferter Polymerization" National ACS Meeting, San Diego, CA, March 2025.
33. **Megan E. Lott**, Maria A. Vratsanos, Rhys W. Hughes, Nathan C. Gianneschi, Brent S. Sumerlin "In-situ monitoring of droplet behavior in inverse microemulsions" National ACS Meeting, San Diego, CA, March 2025.
34. **Kaden C. Stevens**, Gyanna Gao, Cabell B. Eades, Brent S. Sumerlin "Lewis Acid-Mediated Photoiniferter (LAMPI) Polymerization for Highly Isotactic Ultrahigh Molecular Weight Polyacrylamides" National ACS Meeting, San Diego, CA, March 2025.
35. **Cabell B. Eades**, Kaden C. Stevens, Megan E. Lott, Danyella E. Cabrera, Micayla K. Vereb, Brent S. Sumerlin "Ultra-high Molecular Weight Polymer Synthesis via Aqueous Dispersion Polymerization" National ACS Meeting, San Diego, CA, March 2025.
36. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Departmental Seminar, Department of Chemistry, University of Miami, Coral Gables, FL, March 2025. *Invited*.
37. **Ariana M. Tamura**, Jessica Xhumari, Amanda E. Ojeda, Diego I. Pedro, W. Gregory Sawyer, Luiz F. W. Roesch, Brent S. Sumerlin "SLIPs as synthetic mucins: Formulating and translating polymer-based therapeutic for mucositis" 2025 Cancer Engineering Summit (Moffitt Cancer Center), Tampa, FL, February 2025.
38. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Departmental Seminar, Department of Chemistry, McGill University, Montreal, Canada, February 2024. *Invited*.
39. **Brent S. Sumerlin** "Ultra-High Molecular Weight Water-Soluble Polymers" American Chemical Society and Materials Research Society workshop on "Water Soluble Polymers-Current Material Innovation and Environmental Impact" Online. December 2024.
40. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Departmental Seminar, Department of Chemical Engineering, Louisiana State University, Baton Rouge, LA December 2024. *Invited*.
41. **Shravan Godse**, Manoj Settipalli, Kaden Stevens, Brent Sumerlin, Jon Malen, Alan McGaughey "Effect of Chain Tacticity on the Thermal Conductivity of Polymers" ASME 2024 International Mechanical Engineering Congress and Exposition, Portland, OR, November 2024.
42. **Junha Park**, Renjie Liu, Alexander S. Kim, Noah N. Cyr, Susan K. Boehlein, Marcio F. R. Resende, Daniel A. Savin, Laura S. Bailey, Brent S. Sumerlin, Gregory A. Hudalla "Sweet Corn Phytoglycogen Dendrimers as a Lyoprotectant for Dry-State Protein Storage" Biomedical Engineering Society Meeting, Baltimore, MD, October 2023.
43. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Departmental Seminar, Department of Energy, Environmental & Chemical Engineering, Washington University in St Louis, St Louis, MO September 2024. *Invited*.

44. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Departmental Seminar, Department of Polymer Science, University of Akron, Akron, OH September 2024. *Invited*.
45. **Brent S. Sumerlin** "Deconstruction of vinyl polymers" National ACS Meeting, Denver, CO, August 2024. *Invited*.
46. **Brent S. Sumerlin** "Catalyst-free diketoenamine chemistry for dynamic materials" National ACS Meeting, Denver, CO, August 2024. *Invited*.
47. **Brent S. Sumerlin** "Photoactivation for polymerization, end-group functionalization, and bioconjugation" National ACS Meeting, Denver, CO, August 2024. *Invited*.
48. **Brent S. Sumerlin** "Polymer Science Meets Mucosal Medicine: UHMW Synthetic Alternatives" IUPAC Macro, Warwick, UK July 2024. *Plenary*.
49. **Brent S. Sumerlin** Workshop on Identifying Needs and Opportunities for the Application of Polymers University of Birmingham, Birmingham, UK, June 2024. *Invited*.
50. **Brent S. Sumerlin** "Polymer Science Meets Mucosal Medicine: UHMW Synthetic Alternatives" Tosoh Polymer Conference, Raleigh, NC, June 2024. *Invited*.
51. **Brent S. Sumerlin** "Deconstruction of Vinyl Polymers" Florida Award Keynote Lecture, Florida Annual Meeting and Exposition – FAME 2024 (ACS), Palm Harbor, FL, May 2024. *Keynote*.
52. **Thi H. Le**, Kevin A. Stewart, Cabell B. Eades, Jared I. Bowman, Nathan B. Wei, Brent S. Sumerlin "Vitrimers Nanocomposites from PISA" Florida Annual Meeting and Exposition – FAME 2024 (ACS), Palm Harbor, FL, May 2024.
53. **Ariana M. Tamura**, Jessica Xhumari, Diego I. Pedro, W. Gregory Sawyer, Luiz F. W. Roesch, Brent S. Sumerlin "Stimuli-responsive statistical and block copolymers as synthetic mucin replacements" Florida Annual Meeting and Exposition – FAME 2024 (ACS), Palm Harbor, FL, May 2024.
54. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Department of Chemistry, University of Houston, Houston, TX May 2024. *Invited*.
55. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Department of Chemistry, University of Texas Southwestern Medical Center, Dallas, TX May 2024. *Invited*.
56. **Ariana M. Tamura**, Jessica Xhumari, Jacqueline E. Anatot, Diego I. Pedro, W. Gregory Sawyer, Luiz F. W. Roesch, Brent S. Sumerlin "Designing synthetic mucins for gut health" UF Leadership Board Meeting, Gainesville, FL, April 2024. *Oral*.
57. **Ariana M. Tamura**, Jessica Xhumari, Diego I. Pedro, W. Gregory Sawyer, Luiz F. W. Roesch, Brent S. Sumerlin "Designing synthetic mucins for gut health" UF Graduate Student Research Day, April 2024.
58. **Brent S. Sumerlin** "New Strategies for Degradation and Depolymerization of Polymers with All-Carbon Backbones", Annual Meeting of the Polymer Society of Korea, Online, April 2024. *Keynote*.
59. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Department of Chemistry, University of Southern California, Pasadena, CA March 2024. *Invited*.
60. **Brent S. Sumerlin** "Decarboxylation for polymer transformations" National ACS Meeting, New Orleans, LA, March 2024. *Invited*.

61. **Jared Bowman**, Cabell Eades, Maria A. Vratsanos, Nathan Gianneschi, Brent S Sumerlin "Ultrafast xanthate-mediated Photoiniferter polymerization-induced self-assembly (PISA)" National ACS Meeting, New Orleans, LA, March 2024.
62. **James Young**, Rhys Hughes, Ariana Tamura, Laura Bailey, Kevin Stewart, Brent Sumerlin "Bulk depolymerization of polymethacrylates for reversion to monomer and thermoplastic property augmentation" National ACS Meeting, New Orleans, LA, March 2024.
63. **Madison Ross**, Oleksandr Ivanchenko, Mathias Destarac, Stephane Mazieres, Brent S. Sumerlin "Investigating the reactivity of ϵ -thionocaprolactone and maleimide derivatives" National ACS Meeting, New Orleans, LA, March 2024.
64. **Lucca Trachsel**, Debabrata Konar, Kevin A. Stewart, Jason D. Hillman, Jack A. Moerschel, Brent S. Sumerlin " β -Triketones as Reactive Handles for Polymer Diversification via Dynamic Catalyst-free β -Diketoenamine Click Chemistry" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
65. **Brent S. Sumerlin** "Decarboxylation for polymer transformations" 51st Annual Waterborne Symposium, New Orleans, LA, February 2024. *Keynote*.
66. **Brent S. Sumerlin** "Dynamic-Covalent Chemistry for Healable and Reprocessable Soft Materials" Gordon Research Conference on Multifunctional Materials & Structures, Ventura, CA, February 2024. *Invited*.
67. **James B. Young**, Rhys W. Hughes, Ariana M. Tamura, Laura S. Bailey, Kevin A. Stewart, Brent S. Sumerlin "Bulk Depolymerization of Polymethacrylates for Reversion to Monomer and Thermoplastic Property Augmentation" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
68. Sofia L. Goodrich, **Madison E. Ross**, James B. Young, Brent S. Sumerlin "Democratization of Sono-RAFT: Reversible-Deactivation Radical Polymerization with Low-Frequency Ultrasound" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
69. **Ariana M. Tamura**, Jessica Xhumari, Diego I. Pedro, Csilla Gyorgy, Lucca Trachsel, Cullen L. G. Davidson, Luiz F. W. Roesch, Gregory Sawyer, Brent S. Sumerlin "Stimuli-responsive statistical & block copolymers as synthetic mucin replacements" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
70. **Megan E. Lott**, Lucca Trachsel, Emmanuelle Schu  , Cullen L. G. Davidson, IV, Rebecca A. Olson S., Diego I. Pedro, W. Gregory Sawyer, Brent S. Sumerlin "Ultra-High Molecular Weight Triblock Copolymers via Inverse Miniemulsion Photoiniferter Polymerization" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
71. **Cabell B. Eades**, Diba Allameh Zadeh, Jared I. Bowman, Danyella Cabrera, Daniel R. Talham, Brent S. Sumerlin "Hybrid Polyion Complexes: Application and Advancement" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
72. **Jared I. Bowman**, Cabell B. Eades, Maria A. Vratsanos, Nathan C. Gianneschi, Brent S. Sumerlin "Ultrafast Xanthate-Mediated Photoiniferter Polymerization-Induced Self-Assembly (PISA)" ACS POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2023.
73. **Brent S. Sumerlin** "Photoactivation for polymerization, depolymerization, and additive manufacturing", Department of Chemical and Biomolecular Engineering seminar, North Carolina State University, Raleigh, NC, September 2023. *Invited*.
74. **Brent S. Sumerlin** "Alternating radical ring-opening polymerization", American Chemical Society National Meeting, San Francisco, CA August 2023. *Invited*.
75. **Brent S. Sumerlin** "Photocatalysis to derivatize, depolymerize, and degrade polymers", Department of Materials Science & Engineering seminar, Seoul National University, Korea (online), August 2023.

Invited.

76. **Brent S. Sumerlin** "Photocatalysis to derivatize, depolymerize, and degrade polymers", Gordon Research Conference (*Plastics Recycling and Upcycling*), Manchester, NH July 2023. *Invited.*
77. **Marcos V. Ferreira**, Anizio M. de Faria, Rodrigo B. Panatieri, Brent S. Sumerlin, Rosana M. N. Assunção "Synthesis of Alkyne-Functionalized Cellulose for Attachment of Biomolecules by Thiol-Yne Click Chemistry" 17th Brazilian Polymer Conference, October 2023, Joinville, Brazil.
78. **Blanch Khouri Sader**, Emmanuelle Schuè, Brent S. Sumerlin. "Molecularly Imprinted Polymers for the Detection of Aflatoxin" Annual Meeting of NSF Engineering Research Center: The Internet of Things for Precision Agriculture - IoT4Ag, Gainesville , FL, June 2023. *Poster.*
79. **Brent S. Sumerlin** "Let there be light: Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers", Gordon Research Conference (*Polymers*), South Hadley, MA, June 2023. *Invited.* (canceled because of Covid)
80. **Jared I. Bowman**, Cabell B. Eades, Joanna Korpany, John B. Garrison, Georg M. Scheutz, Sofia L. Goodrich, Nathan C. Gianneschi, Brent S. Sumerlin "Controlling Morphological Transitions of Polymeric Nanoparticles via Doubly Responsive Block Copolymers" Polymers Gordon Research Seminar 2023, South Hadley, MA, June 2023, *Poster.*
81. **James B. Young**, Rhys W. Hughes, Ariana M. Tamura, Laura S. Bailey, Brent S. Sumerlin "Chain-End-Initiated Bulk Depolymerization of Poly(Methyl Methacrylate) for Catalyst-Free Reversion to Monomer" Polymers Gordon Research Conference – GRC 2023, South Hadley, MA, June 2023. *Poster.*
82. **Jared I. Bowman**, Cabell B. Eades, Joanna Korpany, John B. Garrison, Georg M. Scheutz, Sofia L. Goodrich, Nathan C. Gianneschi, Brent S. Sumerlin "Controlling Morphological Transitions of Polymeric Nanoparticles via Doubly Responsive Block Copolymers" Polymers Gordon Research Conference 2023, South Hadley, MA, June 2023, *Poster.*
83. **Stewart, K. A.**; Lessard, J. J.; Cantor, A.; Rynk, J. F.; Sumerlin, B. S.; High-Performance Polyimide Vitrimers from an Aromatic Bio-Based Scaffold, ACS POLY Fluoropolymer Workshop 2023, Denver, CO, June 2023. *Oral.*
84. **Rhys W. Hughes**, Megan E. Lott, Jared I. Bowman, Brent S. Sumerlin "Excitation Dependence in Photoiniferter Polymerization" Florida Annual Meeting and Exposition – FAME 2023 (ACS), Palm Harbor, FL, June 2023. *Oral.*
85. **Megan E. Lott**, Lucca Trachsel, Emmanuelle Schuè, Cullen L.G. Davison, IV, Rebecca A. Olson S., Diego I. Pedro, W. Gregory Sawyer, Brent S. Sumerlin "Ultrahigh Molecular Weight Triblock Copolymers via Difunctional Photoiniferters in Inverse Miniemulsion Conditions" Florida Annual Meeting and Exposition – FAME 2023 (ACS), Palm Harbor, FL, June 2023. *Oral.*
86. **Lauren M. Bishop**, Sofia L. Goodrich, Brent S. Sumerlin "Expanding the Scope of Chemiluminescence-Promoted Photopolymerizations" Florida Annual Meeting and Exposition – FAME 2023 (ACS), Palm Harbor, FL, June 2023. *Poster.*
87. **Cabell B. Eades**, Diba Allameh Zadeh, Jared I. Bowman, Daniel R. Talham, Brent S. Sumerlin. "Lanthanide-Based Hybrid Polyion Complexes for Use as ParaCEST MRI Contrast Agents" Florida Annual Meeting and Exposition – FAME 2023 (ACS), Palm Harbor, FL, June 2023. *Poster.*
88. **Brent S. Sumerlin** "Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers", Future Directions of Advanced Materials, Brockhouse Institute for Materials Research, McMaster University, Ontario, Canada (online) (2023). *Invited.*
89. **Brent S. Sumerlin** "Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers", Covestro Distinguished Lectureship, University of Southern Mississippi (2023). *Invited.*

90. **Brent S. Sumerlin** "Photocatalytic decarboxylation to derivatize and degrade (co)polymers" 2023 Advanced Polymers via Macromolecular Engineering, Paris, France, April 2023. *Invited*.
91. **Stewart, K. A.**; Lessard, J. J.; Cantor, A.; Rynk, J. F.; Sumerlin, B. S.; Vanillin Vitrimers: Fabricating Recyclable, High-Performance Thermosets from Bio-Based Monomers, Soft Matter Applied Research and Technology Symposium – SMARTS 2023, Gainesville, FL, April 2023. *Oral*.
92. **Noah Cyr**, Cabell B. Eades, Brent S. Sumerlin "Ionic Liquids as Versatile Solvents for Rapid and High Weight Radical Polymerization" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Poster*.
93. **James B. Young**, Rhys W. Hughes, Ariana M. Tamura, Josh M. Marquez, Brent S. Sumerlin "Photoassisted and Redox-Initiated Radical Depolymerization" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Oral*.
94. **Lily E. Diodati**, Sitong Liu, Carlos M. Rinaldi-Ramos, Brent S. Sumerlin "Magnetic Nanoparticles Improve Flow Rate and Enable Self-Healing in Covalent Adaptable Networks" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Oral*.
95. **Jared I. Bowman**, Cabell B. Eades, Maria A. Vratsanos, Nathan C. Gianneschi, Brent S. Sumerlin "PISA PI: Nanoparticles Delivered in 30 Minutes or Less" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Oral*.
96. **Ariana M. Tamura**, Lucca Trachsel, Csilla Gyorgy, Brent S. Sumerlin "Hyaluronic Acid in Sustainable, Long-Lasting Eye Drops" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Poster*.
97. **Cabell B. Eades**, Diba Allameh Zadeh, Jared I. Bowman, Daniel R. Talham, Brent S. Sumerlin "Lanthanide-Based Hybrid Polyion Complexes for use as ParaCEST MRI Contrast Agents" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Poster*.
98. **Alexander J Wong**, Cabell B. Eades, Jared I. Bowman, Brent S. Sumerlin "Orthogonal Photoiniferter Polymerizations for the Synthesis of Unique Nanoparticle Morphologies via PISA" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Poster*.
99. **Lauren Bishop**, Sofia L. Goodrich, Brent S. Sumerlin "Light from Within: Chemiluminescence Promoted Photopolymerization" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Poster*.
100. **Blanch Khouri Sader**, Emmanuelle Schuè, Brent S. Sumerlin "The Detection of Aflatoxin using Molecularly Imprinted Polymers" Soft Matter Applied Research and Technology Symposium - SMARTS 2023, Gainesville, FL, April 2023, *Poster*.
101. Yu-Hsuan Shen, Zihui Miao, Brent S. Sumerlin, **Adam S. Veige** "Cyclic polyacetylene: Synthesis, characterization, and fibril size control" American Chemical Society National Meeting, Indianapolis, IN, March 2023. *Invited*.
102. Kevin A. Stewart, Swagata Mondal, Jacob J. Lessard, Chhuttan L. Meena, Gangadhar J. Sanjayan, **Brent S. Sumerlin** "Dynamic-covalent and supramolecular networks with unprecedented properties" American Chemical Society National Meeting, Indianapolis, IN, March 2023. *Invited*.
103. Angie B. Korpusik, John B. Garrison, Alafate Adili, Rhys W. Hughes, James B. Young, Emmanuelle Schue, Daniel Seidel, **Brent S. Sumerlin** "Photocatalytic decarboxylation to derivatize or degrade polymers" American Chemical Society National Meeting, Indianapolis, IN, March 2023. *Invited*.
104. **Brent S. Sumerlin** "Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers" Arkema, King of Prussia, PA, February 2023. *Invited*.

105. **James B. Young**, Jared I. Bowman, Cabell B. Eades, Alex J. Wong, Brent S. Sumerlin "Photoassisted Radical Depolymerization" Florida State University POLY-PMSE Annual Polymer Research Symposium, Tallahassee, FL, February 2023.
106. **Brent S. Sumerlin** "The Strength of Weakness: Resilience from Fragility and Dynamicity in Synthetic Mucins" BioEngineering at Moffitt (BAM) - Cancer Summit, February 2023. *Invited*.
107. **Brent S. Sumerlin** "Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers" University of Minnesota, Department of Chemistry seminar, February 2023. *Invited*.
108. **Brent S. Sumerlin** "Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers" Texas A&M University, Department of Chemistry student-selected seminar, January 2023. *Invited*.
109. **Senthil Duraivel**, Sofia Goodrich, Brent S. Sumerlin, Thomas Angelini "Mixing and solvation transitions in aqueous mixtures of free polymers and microgels" National Meeting of the American Physical Society, Las Vegas, NV, March 2023.
110. **Brent S. Sumerlin** "Light as a Method to Make and Break Polymers" ACS Publications: 1st International Symposium of Precision Polymer Chemistry for Functional Materials, China, November 2022. *Online*.
111. Emmanuelle Schué, **Charles L. McCormick**, Akhila Mallavarapu, Justin Pitts, Cherie R. Kagan, Brent S. Sumerlin "Assessing aflatoxin risk points in peanuts via polymer science and chemical sensing" American Chemical Society Southwest Regional Meeting, Baton Rouge, LA, November 2022. *Poster*.
112. Swagata Mondal, Jacob Lessard, Chhuttan Meena, Gangadhar Sanjayan, **Brent S. Sumerlin** "Janus crosslinks in supramolecular networks" American Chemical Society National Meeting, Chicago, IL, August 2022. *Invited*.
113. **Swagata Mondal**, Jacob Lessard, Chhuttan Meena, Gangadhar Sanjayan, Brent S. Sumerlin "Janus crosslinks in supramolecular networks" American Chemical Society National Meeting, Chicago, IL, August 2022. *Poster*.
114. **James B. Young**, Jared I. Bowman, Cabell B. Eades, Alex J. Wong, Brent S. Sumerlin "Photo-assisted Depolymerization: An Exploration into the Effect of Light on Various Terminal Iniferters for Depolymerization to Monomer" Florida Annual Meeting and Exposition - FAME 2022 (ACS), Tarpon Springs, FL, August 2022. *Oral*.
115. **Sofia Goodrich**, Michael Sims, Johann Rapp, John Garrison, Brent S. Sumerlin "Imine core-crosslinked stars for tunable degradation and release" American Chemical Society National Meeting, Chicago, IL, August 2022. *Oral*.
116. **Lucca Trachsel**, Debabrata Konar, Brent S. Sumerlin "Upcycling of poly(N,N-dimethylacrylamide) via transition-metal-free transamidation of unactivated tertiary amides" American Chemical Society National Meeting, Chicago, IL, August 2022. *Oral*.
117. **Maria Vratsanos**, Joanna Korpanty, Megan Lott, Brent S. Sumerlin, Nathan Gianneschi "Investigating emulsion morphology, dynamics, and formation via liquid phase transmission electron microscopy" American Chemical Society National Meeting, Chicago, IL, August 2022. *Oral*.
118. **Kevin A. Stewart**, Jacob J. Lessard, Alex Cantor, Jared I. Bowman, Brent S. Sumerlin "High-Performance Bio-Based Polyimine Vitrimers and Linear Polymers from Pentafluoropyridine" Florida Annual Meeting and Exposition – FAME 2022 (ACS), Palm Harbor, FL, August 2022. *Oral*.
119. **Debabrata Konar**, Vineet Jakhar, Adam S. Veige, Brent S. Sumerlin "Cyclic Poly(4-ethynylphenylboronate ester): Efficient Catalytic Synthesis of Functionalized Cyclic Polymers and Gels" Florida Annual Meeting and Exposition - FAME 2022, Palm Harbor, FL, August 2022, *Poster*.

120. **Megan E. Lott**, Rebecca A. Olson, John B. Garrison, and Brent S. Sumerlin “Inverse miniemulsion photoiniferter polymerization” Florida Annual Meeting and Exposition - FAME 2022, Palm Harbor, FL, August 2022, *Poster*.
121. **Rhys W. Hughes**, Jacob J. Lessard, Dominic J. Rucco, Rebecca A. Olson, Lily A. Alperstien, Daniel A. Savin, Brent S. Sumerlin “High Internal-phase Emulsion Foams for Streamlined Purification of Macromolecular “Click” Products” Florida Annual Meeting and Exposition - FAME 2022, Palm Harbor, FL, August 2022, *Poster*.
122. **Lily E. Diodati**, Sitong Liu, Carlos M. Rinaldi-Ramos, Brent S. Sumerlin “Induction Processing and Improvement of Composite Vitrimer Flow through Integration of Fe₃O₄ in Vitrimer Networks” Florida Annual Meeting and Exposition - FAME 2022, Palm Harbor, FL, August 2022, *Poster*.
123. **Angie B. Korpusik**, Alafate Adili, Daniel Seidel, Brent S. Sumerlin “Photocatalytic direct decarboxylation of carboxylic acids to derivatize or degrade polymers” Florida Annual Meeting and Exposition - FAME 2022, Palm Harbor, FL, August 2022, *Poster*.
124. **Brent S. Sumerlin** “Light as a tool to synthesize and degrade polymers” Course in Macromolecular Science for Advanced and Sustainable Materials, Erice, Italy, July 2022.
125. **Kevin A. Stewart**, Daniel P. DeLellis, Jacob J. Lessard, John F. Rynk, Brent S. Sumerlin. “Nanocomposite Enaminone Vitrimers from POSS Derivatives for Shapeable Heat-Shielding Materials” Tosoh Polymer Conference, Los Angeles, LA, June 2022, *Poster*.
126. **Debabrata Konar**, Jack Moerschel, Brent S. Sumerlin. “High Performance Thermoplastic Poly(vinylidene fluoride) with Tunable Hydrogen Bond Content” Tosoh Polymer Conference, Los Angeles, LA, June 2022, *Poster*.
127. **Debabrata Konar**, Vineet Jakhar, Adam S. Veige, Brent S. Sumerlin “Cyclic Poly(4-ethynylphenylboronate ester): Efficient Catalytic Synthesis of Functionalized Cyclic Polymers and Gels” Tosoh Polymer Conference, Los Angeles, LA, June 2022, *Poster*.
128. **Brent S. Sumerlin** “Light as a tool to synthesize and degrade polymers” 3M Corporate Research, Physical Sciences Cluster, Specialty Materials Subgroup, Minneapolis, MN (online), June 2022. *Invited*.
129. **Brent S. Sumerlin** “Light as a tool to synthesize and degrade polymers” Alcon Research Laboratory, Fort Worth, TX, June 2022. *Invited*.
130. **Brent S. Sumerlin** “Light as a tool to synthesize and degrade polymers” Soft Matter Applied Research and Technology Symposium (SMARTS), Gainesville, FL, June 2022. *Keynote*.
131. Angie Korpusik, Rebecca Olson, Charles Easterling, Michael Sims, R. Carmean, C. Figg, **Brent S Sumerlin** “Photoactivation for polymerization, end-group functionalization, and bioconjugation” American Chemical Society National Meeting, San Diego, CA, March 2022. *Invited*.
132. **Digvijayee Pal**, Zhihui Miao, John Garrison, Lily Diodati, Daniel Savin, Adam Veige, Brent S Sumerlin “Cyclic Polyolefins: Synthesis, characterization, and post-polymerization modifications” American Chemical Society National Meeting, San Diego, CA, March 2022.
133. **Brent S. Sumerlin** “Photopolymerization for Sustainable Materials, ‘Inaccessible’ Polymers, and Additive Manufacturing” University of Montreal, Department of Chemistry seminar, March 2022.
134. **Brent S. Sumerlin** “Photopolymerization for Sustainable Materials, ‘Inaccessible’ Polymers, and Additive Manufacturing” Pennsylvania State University, Department of Chemistry seminar, February 2022.
135. **Brent S. Sumerlin** “Photopolymerization for Sustainable Materials, ‘Inaccessible’ Polymers, and Additive Manufacturing” Arizona State University, Department of Chemistry seminar, February

2022.

136. **Brent S. Sumerlin** "Photopolymerization for Sustainable Materials, 'Inaccessible' Polymers, and Additive Manufacturing" Purdue University, Department of Chemistry seminar, January 2022.
137. R. Nicholas Carmean, Michael Sims, Charles Easterling, C. Adrian Figg, Paul Hurst, Xia | Joe Patterson, Junpeng Zhao, Gail Fanucci, **Brent Sumerlin** "Photo-RAFT and photoiniferter polymerization to access ultra-high molecular weight polymers and previously inaccessible blocking orders" 2021 International Chemical Congress of Pacific Basic Societies (Pacifichem), Online, December 2021, *Invited*.
138. Rebecca Olson, Jordan Levi, Georg Scheutz, Jacob Lessard, Angie Korpusik, **Brent Sumerlin** "Photocatalytic approaches to polymer-protein conjugates" 2021 International Chemical Congress of Pacific Basic Societies (Pacifichem), Online, December 2021, *Invited*.
139. Vineet Jakhar, Rinku Yadav, Digvijayee Pal, Ion Ghiviriga, Khalil Abboud, Brent Sumerlin, **Adam Veige** "New catalytic intermediates and their role in highly stereoselective catalytic cyclic polynorbornene synthesis" 2021 International Chemical Congress of Pacific Basic Societies (Pacifichem), Online, December 2021, *Invited*.
140. Zhihui Miao, Alec Esper, Digvijayee Pal, Brent Sumerlin, **Adam Veige** "Conjugated cyclic polymers" 2021 International Chemical Congress of Pacific Basic Societies (Pacifichem), Online, December 2021, *Invited*.
141. Jacob J. Lessard, Angie B. Korpusik, Rebecca A. Olson, John B. Garrison, Georg M. Scheutz, C. Adrian Figg, Yan Tan, Weihong Tan, **Brent S. Sumerlin** "Macromolecular Photocatalysts in Reversible-Deactivation Radical Polymerization" POLY Workshop on Controlled Radical Polymerization, Charleston, SC, November 2021, *Invited*.
142. Jacob J. Lessard, Angie B. Korpusik, Rebecca A. Olson, John B. Garrison, Georg M. Scheutz, C. Adrian Figg, Yan Tan, Weihong Tan, **Brent S. Sumerlin** "Macromolecular Photocatalysts in Reversible-Deactivation Radical Polymerization" Macromex 2021, Cancun, Mexico, November 2021, *Invited*.
143. **Swagata Mondal**, Jacob J. Lessard, Chhuttan Meena, Gangadhar J. Sanjayan, Brent S. Sumerlin "Janus Crosslinks in Supramolecular Networks" Florida Annual Meeting and Exposition - FAME 2021, Gainesville, FL, September 2021, *Oral*.
144. **Angie B. Korpusik**, Yan Tan, John B. Garrison, Weihong Tan, Brent S. Sumerlin "Aptamer-Conjugated Micelles for Targeted Photodynamic Therapy via Photoinitiated Polymerization-Induced Self-Assembly" Florida Annual Meeting and Exposition - FAME 2021, Gainesville, FL, September 2021, *Oral*.
145. **Brent S. Sumerlin** "Photoinitiated Polymerization-Induced Self-Assembly for Aptamer-Conjugated Micelles and Targeted Photodynamic Therapy" IUPAC World Chemistry Conference, Canadian Chemistry Conference & Exhibition, Montreal, Canada (virtual), August 2021.
146. **Jacob Lessard**, Georg Scheutz, Kevin Stewart, Charles Easterling, Michael Sims, Rhys Hughes, Luis Garcia, Seung Sung, Kayla Lantz, Kyle Bentz, Scarlett Arencibia, Daniel Savin, Thomas Epps, Brent S Sumerlin "Macromolecular Building Blocks in Vitrimers" American Chemical Society National Meeting, Atlanta, GA, August 2021.
147. **Mehrafshan Jafari**, Presenter, Bimal Pudasaini, Hanna Lee, Zhihui Miao, Digvijayee Pal, Michael Gau, Mu-Hyun Baik, Brent S. Sumerlin, Adam Veige, Daniel Mindiola "Cyclic polymerization of phenylacetylene with vanadium alkylidynes: A mechanistic study" American Chemical Society National Meeting, Atlanta, GA, August 2021.
148. **Duy T. Nguyen**, Juan Urueña, Borna Mehrad, Yamini Sharma, Zadia Dupee, Tiago Machuca, John Lednický, David Odde, Brent S Sumerlin, Stephen Eikenberry, Diego Pedro, Ryan Smolchek, Jack Famiglietti, Nickolas Diodati, Matthew Schaller, W. Sawyer "3D lung microtissue models of SARS-

CoV-2 infection and progression" American Chemical Society National Meeting, Atlanta, GA, August 2021.

149. **Brent S. Sumerlin**, Angie B. Korpusik, Yan Tan, John B. Garrison, Weihong Tan "Aptamer-Conjugated Polymers for Actively-Targeted Photodynamic Therapy" Advanced Functional Polymers for Medicine, Pisa, Italy (webinar), July 2021. *Invited*.
150. **Brent S. Sumerlin** "Macromolecular Photocatalysts in Reversible-Deactivation Radical Polymerization" Department of Physical Chemistry of Polymers, Max Planck Institute for Polymer Research, Webinar, July 2021. *Invited*.
151. **Brent S. Sumerlin** "Macromolecular Photocatalysts in Reversible-Deactivation Radical Polymerization" Future of Polymer Chemistry, KAIST Advanced Institute for Science, Korea, Webinar, July 2021. *Invited*.
152. **Brent S. Sumerlin**, Charles P. Easterling, R. Nicholas Carmean, Michael B. Sims, Gail E. Fanucci "Expanding the limits of photoiniferter polymerization for block copolymer sequence inversion and ultra-high molecular weights" 48th World Polymer Congress IUPAC-MACRO 2020, Jeju, South Korea (webinar), May 2021. *Invited*.
153. **Brent S. Sumerlin** "Responsive Soft Matter Through Dynamic Bonds" Tulane University, Department of Chemistry seminar, Webinar, April 2021. *Invited*.
154. **Brent S. Sumerlin** "Materials science through macromolecular engineering" STiBNite 1st Network Symposium: Global Challenge in Materials Science, Webinar, March 2021. *Invited*.
155. **Brent S. Sumerlin** "Pushing the limits of CRP and post-polymerization modification to access new materials" Tosoh Bioscience Webinar, March 2021. *Plenary. Invited*.
156. **Brent S. Sumerlin** "Pushing the limits of CRP and post-polymerization modification to access new materials" Radtech Webinar, October 2020. *Invited*.
157. **Brent S. Sumerlin** "Pushing the limits of CRP and post-polymerization modification to access new materials" Controlled Radical Polymerization Consortium, Carnegie Mellon University, October 2020. *Invited*.
158. **Brent S. Sumerlin** "Self-Healing Polymers and Vitrimers", ACS Webinar, 850+ attendees, June 2020. *Emcee*.
159. **Brent S. Sumerlin** "Pushing the limits of CRP and post-polymerization modification to access new materials" ETH Zurich, Department of Materials, Anathasaki Webinar, June 2020. *Invited*.
160. **Brent S. Sumerlin** "Pushing the limits of CRP and post-polymerization modification to access new materials" Carnegie Mellon University, Department of Chemistry, Matyjaszewski Webinar, May 2020. *Invited*.
161. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" University of California Irvine, Department of Chemistry seminar, Irvine, CA, February 2020. *Invited*.
162. **Brent S. Sumerlin** "Photoactivation for polymerization, reverse block copolymerization, and end-group functionalization" Lubrizol Corporation, Frontier Lecture, Cleveland, OH, November 2019. *Invited*.
163. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" Case Western Reserve University, Department of Chemistry, Frontier Lecture, Cleveland, OH, November 2019. *Invited*.
164. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" Florida State University, Department of Chemistry seminar, Tallahassee, FL, November 2019. *Invited*.

165. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" Dartmouth University, Department of Chemistry seminar, New Hanover, NH, September 2019. *Invited*.
166. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" University of California, San Diego, SMCB Symposium on Zero through Four Dimensional Materials, San Diego, CA, August 2019. *Invited*.
167. **Brent S. Sumerlin**, Charles Easterling, R. Nicholas Carmean "Aqueous photoiniferter polymerizations" American Chemical Society National Meeting, San Diego, CA, August 2019. *Invited*.
168. **Brent S. Sumerlin**, C. Adrian Figg "Dictating the evolution of morphology in PISA" American Chemical Society National Meeting, San Diego, CA, August 2019. *Invited*.
169. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" Tosoh Bioscience GPC2019, New Orleans, LA, July 2019. *Invited*.
170. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" IUPAC 2019, Paris, France, July 2019. *Invited*.
171. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" Stanford University, US-Japan Polymer Symposium, Palo Alto, CA, June 2019. *Invited*.
172. **Brent S. Sumerlin**, Michael B. Sims "Elements of RAFT and Photopolymerization" Inaugural POLY Webshop on Controlled Polymerization – online worldwide broadcast. June 2019.
173. **Brent S. Sumerlin** "Responsive Polymers from Dynamic Bonds" Drexel University, Department of Materials Science & Engineering, Departmental Seminar, May 2019. *Invited*.
174. Eric G. Fuller, Hao Sun, Rohan D. Dhavalikar, Mythreyi Unni, Georg M. Scheutz, Carlos Rinaldi, **Brent S. Sumerlin** "Externally-triggered heating of polymer-decorated nanoparticles for catalysis and drug release" 2019 Frontiers in Polymer Science, Budapest, Hungary, May 2019, *invited*.
175. **Michael B. Sims**, Jacob J. Lessard, Lian Bai, Brent S. Sumerlin "Functional Diversification of Polymethacrylates by Dynamic beta-Ketoester Modification" Frontiers in Polymer Science, Budapest, Hungary, May 2019, *Poster*.
176. Georg M. Scheutz, **Jonathan L. Rowell**, Brent S. Sumerlin "Synthetic Diversification of 1,2-Dithiolanes for Cell Uptake and Drug Delivery Applications" Florida Annual Meeting and Exposition - FAME 2019, Palm Harbor, FL, May 2019, *Poster*.
177. **Digvijayee Pal**, Zhihui Miao, John B. Garrison, Adam S. Veige, Brent S. Sumerlin "Synthesis of Cyclic Brush Polymers" Florida Annual Meeting and Exposition – FAME 2019, Palm Harbor, FL, May 2019, *Poster*.
178. **Sofia L. Goodrich**, Megan R. Hill, Rebeca A. Olson, Brent S. Sumerlin "Polypeptide Synthesis by Photopolymerization of *N*-Carboxyanhydrides" Florida Annual Meeting and Exposition - FAME 2019, Palm Harbor, FL, May 2019, *Oral*.
179. **Rebecca A. Olson**, C. Adrian Figg, Jordan Levi, Brent S. Sumerlin "Functionalization to the Fourth Power: Chemoselective Heterotetrafunctionalization of Polymer End Groups" Florida Annual Meeting and Exposition – FAME 2019, Palm Harbor, FL, May 2019, *Oral*.
180. **Jacob J. Lessard**, Saket Mulge, Georg M. Scheutz, Brent S. Sumerlin "Vinylogous Urethane Vitrimers: Reprocessable Thermosets" Florida Annual Meeting and Exposition - FAME 2019, Palm Harbor, FL, May 2019, *Oral*.
181. **John B. Garrison**, Hao Sun, Christopher P. Kabb, Brent S. Sumerlin "Light-Induced Macromolecular Metamorphosis of Polymer Architecture" Florida Annual Meeting and Exposition - FAME 2019, Palm Harbor, FL, May 2019, *Poster*.

182. **Brent S. Sumerlin**, Michael B. Sims, Jacob J. Lessard, Hao Sun "Responsive Materials from Dynamic Bonds" 2019 International Conference on Advanced Polymers via Macromolecular Engineering (APME), Stellenbosch, South Africa, April 2019, *invited*.
183. Christopher P. Kabb, Christopher S. O'Bryan, Cameron D. Morley, Thomas E. Angelini, **Brent S. Sumerlin** "Compression-activated fluorescence in polymeric networks" American Chemical Society National Meeting, Orlando, FL, April 2019, *invited*.
184. R. Nicholas Carmean, Michael B. Sims, C. Adrian Figg, Georg M. Scheutz, Tomohiro Kubo, Troy E. Becker, **Brent S. Sumerlin** "Photoactivation for polymerization, end-group functionalization, and bioconjugation" American Chemical Society National Meeting, Orlando, FL, April 2019, *invited*.
185. Jacob J. Lessard, Michael B. Sims, Luis F. Garcia, Charles P. Easterling, Kyle C. Bentz, Scarlett Godinez, Daniel A. Savin, **Brent S. Sumerlin** "Dynamic-covalent chemistry for functional diversification, vitrimers, and other self-healing materials" American Chemical Society National Meeting, Orlando, FL, April 2019, *invited*.
186. Michael B. Sims, **Johann L. Rapp**, Mingrui Li, Brent S. Sumerlin, "Degradable Imine-Containing Core-Crosslinked Star Polymers" American Chemical Society National Meeting, Orlando, FL, April 2019, *poster*.
187. **Michael B. Sims**, Kush Y. Patel, Mallika Bhatta, Soma Mukherjee, Jacob J. Lessard, Lian Bai, and Brent S. Sumerlin, "Harnessing imine reactivity for dynamic functional and topological transformations" American Chemical Society National Meeting, Orlando, FL, April 2019.
188. **Brent S. Sumerlin** "Responsive Materials from Dynamic Bonds" University of Colorado, Boulder, Department of Chemistry seminar series, March 2019, *Invited*.
189. **Georg M. Scheutz**, Jonathan L. Rowell, Sarah T. Ellison, Thomas E. Angelini, Brent S. Sumerlin "Harnessing Strained Disulfides for Photocurable Dynamic Hydrogels" Biomaterials Day, Gainesville, FL, March 2019, *Poster*.
190. **Jacob J. Lessard**, Saket S. Mulge, Georg M. Scheutz, Brent S. Sumerlin "Vinylogous Urethane Vitrimers: Reprocessable Thermosets" Mechanical and Aerospace Engineering Invited Soft Matter Lunch Seminar Series, Gainesville, FL, February 2019, *Oral*.
191. **Brent S. Sumerlin** "Photoactivation for polymerization, end-group functionalization, and bioconjugation" Soft Matter Applied Research and Technology Symposium - SMARTS 2019, Gainesville, FL, February 2019, *Keynote*.
192. Jacob J. Lessard, **Saket S. Mulge**, Georg M. Scheutz, Brent S. Sumerlin "Vinylogous Urethane Vitrimers with Incorporated Catalyst" Soft Matter Applied Research and Technology Symposium - SMARTS 2019, Gainesville, FL, February 2019, *Poster*.
193. **Jacob J. Lessard**, Saket S. Mulge, Georg M. Scheutz, Brent S. Sumerlin "Vinylogous Urethane Vitrimers: Reprocessable Thermosets" Soft Matter Applied Research and Technology Symposium - SMARTS 2019, Gainesville, FL, February 2019, *Oral*.
194. **Rebecca A. Olson**, C. Adrian Figg, Tomohiro Kubo, Rachel Wechsler, Brent S. Sumerlin "Functionalization to the Fourth Power: Towards Chemoselective Heterotetrafunctionalization of Polymer End Groups" Soft Matter Applied Research and Technology Symposium – SMARTS 2019, Gainesville, FL, February 2019, *Poster*.
195. **Georg M. Scheutz**, Jonathan L. Rowell, Brent S. Sumerlin "Harnessing Strained Disulfides for Photocurable Dynamic Hydrogels" Soft Matter Applied Research and Technology Symposium - SMARTS 2019, Gainesville, FL, February 2019, *Poster*.

196. Georg M. Scheutz, **Jonathan L. Rowell**, Brent S. Sumerlin "Synthetic Diversification of 1,2-Dithiolanes" Soft Matter Applied Research and Technology Symposium - SMARTS 2019, Gainesville, FL, February 2019, *Poster*.
197. **Brent S. Sumerlin** "Upcycling Polyacrylates via Organocatalysis" Polymer Upcycling Workshop - Mellichamp Academic Initiative in Sustainability, University of California, Santa Barbara, January 2019. *Invited*.
198. **Brent S. Sumerlin** "Exploiting Light to Facilitate Macromolecular Synthesis" International Institute for Nanotechnology Seminar Series, Northwestern University, Evanston, IL, November 2018. *Invited*.
199. **Brent S. Sumerlin** "Exploiting dynamic-covalent chemistry to access healable and reprocessable soft matter" Soft Matter Symposium, Gainesville, FL, October 2018, *Invited*.
200. **Jacob J. Lessard**, Luis F. Garcia, Charles P. Easterling, Michael B. Sims, Kyle C. Bentz, Scarlett Arencibia, Daniel A. Savin, Brent S. Sumerlin "Catalyst-Free Vitrimers from Vinyl-Derived Polymers" Soft Matter Symposium, Gainesville, FL, October 2018, *Poster*.
201. **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization and macromolecular metamorphosis" New York University, Department of Chemistry seminar, September 2018. *Invited*.
202. **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization and macromolecular metamorphosis" University of Connecticut, Department of Chemistry seminar, September 2018. *Invited*.
203. **Brent S. Sumerlin** "Exploiting light as a means to control synthesis and assembly of polymer-protein hybrids" ETH Zurich, Department of Materials Seminar, Zurich, Switzerland, August 2018. *Invited*.
204. **Brent S. Sumerlin** "Exploiting light as a means to control synthesis and assembly of polymer-protein hybrids" G-Unit(E) Symposium, Northwestern University, Evanston, IL, August 2018. *Invited*.
205. **Brent S. Sumerlin** "Polymer-protein conjugates and protein-loaded polymersomes" 256th ACS National Meeting and Exposition, Boston, MA, August 2018, *Invited*.
206. C. Adrian Figg, Charles P. Easterling, R. Nicholas Carmean, Georg M. Scheutz, Tomohiro Kubo, Michael B. Sims, Troy E. Becker, **Brent S. Sumerlin** "Photoactivation for polymerization, end-group functionalization, and bioconjugation" 256th ACS National Meeting and Exposition, Boston, MA, August 2018, *Invited*.
207. **Jacob J. Lessard**, Luis F. Garcia, Charles P. Easterling, Michael B. Sims, Kyle C. Bentz, Scarlett Arencibia, Daniel A. Savin, Brent S. Sumerlin, "Catalyst-Free Vitrimers from Vinyl-Derived Polymers" 256th ACS National Meeting and Exposition, Boston, MA, August 2018, *Oral*.
208. **Rebecca A. Olson**, C. Adrian Figg, Tomohiro Kubo, Rachel Wechsler, Brent S. Sumerlin "Functionalization to the Fourth Power: Towards Chemoselective Heterotetrafunctionalization of Polymer End Groups" 256th ACS National Meeting and Exposition, Boston, MA, August 2018, *Poster*.
209. **Brent S. Sumerlin** "Photosynthate-Responsive Nanoparticles for Treatment of Citrus HLB" Citrus Research Board of California, Board Meeting, Visalia, CA, August 2018. *Invited*.
210. **Brian Wingender**, Yongliang Ni, Yifan Zhang, Jeremy Elias, Curtis Taylor, Brent Sumerlin, Laurie Gower "Effect of Noncollagenous Proteins in Biomimetically Synthesized Bone-Like Materials" Gordon Research Conference on Biomineralization, New London, NH, July 29. *Poster*.

211. R. Nicholas Carmean, C. Adrian Figg, Georg M. Scheutz, Tomohiro Kubo, Michael B. Sims, Troy E. Becker, **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization" IUPAC Macro Conference, Cairns, Australia, July 2018. *Invited*.
212. **Brent S. Sumerlin** "Exploiting light as a means to control synthesis and assembly of polymer-protein hybrids" Carnegie Mellon University, Center for Polymer-Based Protein Engineering, Pittsburgh, PA, June 2018. *Invited*.
213. R. Nicholas Carmean, C. Adrian Figg, Georg M. Scheutz, Tomohiro Kubo, Michael B. Sims, Troy E. Becker, **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization" Bordeaux Polymer Conference, Bordeaux, France, May 2018. *Invited*.
214. **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization" University of the Basque Country, POLYMAT seminar, San Sebastian, Spain, May 2018. *Invited*.
215. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, Abhijeet Bapat, **Brent S. Sumerlin** "Macromolecular metamorphosis: Stimulus-triggered topological transformations of polymer architecture" University of Delaware, Center for Molecular and Engineering Thermodynamics seminar, May 2018. *Invited*.
216. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, Abhijeet Bapat, **Brent S. Sumerlin** "Macromolecular metamorphosis: Stimulus-triggered topological transformations of polymer architecture" University of Toronto, Department of Chemistry seminar, April 2018. *Invited*.
217. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, Abhijeet Bapat, **Brent S. Sumerlin** "Macromolecular metamorphosis: Stimulus-triggered topological transformations of polymer architecture" Northeastern University, Department of Chemistry seminar, March 2018. *Invited*.
218. **Michael C. Chang**, Sean R. Niemi, Christopher P. Kabb, Thomas E. Angelini, Brent S. Sumerlin, Frank J. Bova, Scott A. Banks "Fast Robotic Soft Matter 3D Printing for Patient-specific Surgical Phantoms" 31st Conference on Recent Advances in Robotics, Orlando, FL, May 2018.
219. **Michael B. Sims**, Jacob J. Lessard, Lian Bai, Brent S. Sumerlin "Modular Functionalization of Polymeric β -Ketoesters via Dynamic Enamine Chemistry" Florida Annual Meeting and Exposition - FAME 2018 (ACS), Palm Harbor, FL, May 2018.
220. C. Adrian Figg, **John B. Garrison**, Brent S. Sumerlin "Synthetic 'Nanoreactors' to Mimic Biology" Florida Annual Meeting and Exposition - FAME 2018 (ACS), Palm Harbor, FL, May 2018.
221. **Christopher P. Kabb**, Christopher S. O'Bryan, Christopher C. Deng, Thomas E. Angelini, Brent S. Sumerlin "Photoreversible Covalent Hydrogels for Soft-Matter Additive Manufacturing" Florida Annual Meeting and Exposition - FAME 2018 (ACS), Palm Harbor, FL, May 2018.
222. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, Abhijeet Bapat, **Brent S. Sumerlin** "Macromolecular metamorphosis: Stimulus-triggered topological transformations of polymer architecture" 255th ACS National Meeting, New Orleans, LA, March 2018. *Invited*.
223. R. Nicholas Carmean, C. Adrian Figg, Georg M. Scheutz, Tomohiro Kubo, Michael B. Sims, Troy E. Becker, **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization" 255th ACS National Meeting, New Orleans, LA, March 2018. *Invited*.
224. **Tomohiro Kubo**, C. Adrian Figg, Jeremy L. Swartz, Maxym Tansky, Kyle C. Bentz, Kristin C. Powell, Anuj Chauhan, Daniel A. Savin, Brent S. Sumerlin "Sequential and chemoselective post-polymerization modification strategy" 255th ACS National Meeting & Exposition, New Orleans, LA, March 2018.
225. **Brent S. Sumerlin** "Macromolecular Metamorphosis for Topological Transformations" South China University of Technology, Seminar, Guangzhou, China, March 2018. *Invited*.

226. **Brent S. Sumerlin** "Macromolecular Metamorphosis for Topological Transformations" Sun Yat-Sen University, Seminar, Guangzhou, China, March 2018. *Invited*.
227. **Brent S. Sumerlin** "Macromolecular Metamorphosis for Topological Transformations" Guangdong University of Technology, Distinguished Visiting Professor Seminar, Guangzhou, China, March 2018. *Invited*.
228. **Georg M. Scheutz**, Brent S. Sumerlin "Probing the *gem*-Disubstituent Effect in Dynamic-Covalent Networks" Florida Heterocyclic and Synthetic Chemistry Conference - FLOHET 2018, Gainesville, FL, March 2018, *Poster*.
229. **Charles P. Easterling**, Tomohiro Kubo, Zachary M. Orr, Jose E. Sanchez, Gail E. Fanucci, Brent S. Sumerlin "Chemoselective Polymer Functionalization through Twisted Guanadine Intermediates" Florida Heterocyclic and Synthetic Chemistry Conference - FloHet 2018, Gainesville, FL, March 2018, *Poster*.
230. **Christopher S. O'Bryan**, Christopher P. Kabb, Brent S. Sumerlin, Thomas E. Angelini "Polyelectrolyte-Multivalent Ion Interactions in Jammed Granular Microgels" American Physical Society March Meeting 2018, Los Angeles, CA, March 2018.
231. **Tomohiro Kubo**, C. Adrian Figg, Jeremy L. Swartz, Maxym Tansky, Kyle C. Bentz, Kristin C. Powell, Anuj Chauhan, Daniel A. Savin, Brent S. Sumerlin "Sequential, chemoselective post-polymerization modification strategy" 18th Florida Heterocyclic and Synthetic Chemistry (FloHet) Conference 2018, Gainesville, FL, March 2018.
232. **Brent S. Sumerlin** "Macromolecular Metamorphosis: Stimuli-Responsive Transformations in Macromolecular Architecture" Columbia University Department of Chemistry Colloquium, February 2018. *Invited*.
233. **Christopher P. Kabb**, Christopher S. O'Bryan, Christopher C. Deng, Thomas E. Angelini, Brent S. Sumerlin "Photoreversible Covalent Hydrogels for Soft-Matter Additive Manufacturing" Biomaterials Day 2018, Gainesville, FL, February 2018, *poster*.
234. **Christopher S. O'Bryan**, Christopher P. Kabb, Sangwoo Park, Brent S. Sumerlin, Thomas E. Angelini "The Effects of Multivalent Ions on Microgel Rheology" Biomaterials Day 2018, Gainesville, FL, February 2018, *poster*.
235. **Georg M. Scheutz**, Brent S. Sumerlin "Tuning Self-Healing Hydrogels with Cyclic Disulfides" Biomaterials Day, Gainesville, FL, February 2018, *Poster*.
236. **Sofia L. Goodrich**, Megan R. Hill, Brent S. Sumerlin "Degradable Polymers for Agricultural Drug Delivery" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018, *Poster*.
237. **C. Adrian Figg**, John B. Garrison, and Brent S. Sumerlin "Synthetic 'Nanoreactors' to Mimic Biology" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018, *Oral*.
238. **Tapomoy Bhattacharjee**, Christopher P. Kabb, Christopher S. O'Bryan, Juan M. Urueña, Brent S. Sumerlin, W. Gregory Sawyer, Thomas E. Angelini "Scaling Laws for Polyelectrolyte Microgel Yielding Near Jamming" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018.

239. **Christopher S. O'Bryan**, Christopher P. Kabb, Sangwoo Park, Brent S. Sumerlin, Thomas E. Angelini "The Effects of Multivalent Ions on Microgel Rheology" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018.
240. **Christopher P. Kabb**, Christopher S. O'Bryan, Angela A. Pitenis, W. Gregory Sawyer, Thomas E. Angelini, Brent S. Sumerlin "Force-activated fluorescence in soft polymeric materials" University of Florida Soft Matter Applied Research and Technology Symposium (UF SMARTS), Gainesville, FL, January 2018, *Poster*
241. C. Adrian Figg, **John B. Garrison**, Brent S. Sumerlin "Synthetic 'Nanoreactors' to Mimic Biology" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018, *Poster*.
242. **Emeline C. Lochmaier**, Daniel J. Dobbins, Brent S. Sumerlin "Covalent Adaptable Networks Possessing Both Associative and Dissociative Exchange Mechanisms" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018, *Poster*.
243. **Charles P. Easterling**, Jose E. Sanchez, Gail E. Fanucci, Brent S. Sumerlin "Block Copolymers of Unconventional Blocking Order through the Use of Light" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018, *Poster*.
244. **Georg M. Scheutz**, Justine Elgohyen, Kyle C. Bentz, Hongyu Chen, Daniel A. Savin, Brent S. Sumerlin "Tuning the Chain-Compaction of Coumarin-Based Single-Chain Nanoparticles" Soft Matter Applied Research and Technology Symposium - SMARTS 2018, Gainesville, FL, January 2018, *Poster*.
245. **Brent S. Sumerlin** "Macromolecular metamorphosis and pushing the molecular weight limits of controlled radical polymerization" 15th Pacific Polymer Conference (PPC), Xiamen, China, December 2018. *Invited*.
246. **Brent S. Sumerlin** "Macromolecular metamorphosis: stimulus-triggered topological transformations of polymer architecture" 15th Pacific Polymer Conference (PPC), Xiamen, China, December 2018. *Invited*.
247. **Brent S. Sumerlin** "Macromolecular metamorphosis for new materials" 4th US-MÉXICO Binational Symposium on Advances in Polymer Science (Macromex), Los Cabos, Mexico, December 2017. *Invited*.
248. **Brent S. Sumerlin** "Macromolecular metamorphosis for new materials" 4th US-MÉXICO Binational Symposium on Advances in Polymer Science (Macromex), Los Cabos, Mexico, December 2017. *Invited*.
249. **Brent S. Sumerlin** "Structurally dynamic assemblies of stimuli-responsive polymers" Pittsburgh local section of the ACS, Pittsburgh, PA, November 2017. *Plenary*.
250. **Brent S. Sumerlin** "Exploiting Light to Push the Limits of Controlled Radical Polymerization" 3M Technical Forum, Radiation Chemistry Group, St. Paul, MN, November 2017. *Invited*.
251. **Michael B. Sims**, Kush Y. Patel, Mallika Bhatta, Soma Mukherjee, Brent S. Sumerlin "Harnessing Imine Diversity to Tune Hyperbranched Polymer Degradation" Applied Polymer Technology Extension Consortium - APTEC 2017, Hattiesburg, MS, November 2017.
252. **Brent S. Sumerlin** "Structurally dynamic assemblies of stimuli-responsive polymers" Department of Materials Science & Engineering seminar, University of Wisconsin, Madison, WI, September 2017. *Invited*.

253. **Brent S. Sumerlin** "Exploiting Light to Push the Limits of Controlled Radical Polymerization" Photopolymerization Fundamentals 2017, Boulder, CO, September 2017. *Invited*.
254. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, Abhijeet Bapat, **Brent S. Sumerlin** "Macromolecular metamorphosis: Stimulus-triggered topological transformations of polymer architecture" ACS National Meeting, Washington, DC, August 2017. *Invited*.
255. Hao Sun, Christopher Kabb, Sunirmal Pal, Christopher Deng, Jessica Cash, **Brent S. Sumerlin** "Structurally dynamic assemblies of stimuli-responsive polymers" ACS National Meeting, Washington, DC, August 2017. *Invited*.
256. R. Carmean, Charles Figg, Georg Scheutz, Tomohiro Kubo, Michael Sims, Troy Becker, **Brent S. Sumerlin** "Exploiting light to push the limits of controlled radical polymerization" ACS National Meeting, Washington, DC, August 2017. *Invited*.
257. **Christopher Kabb**, Christopher O'Bryan, W. Sawyer, Thomas Angelini, Brent Sumerlin "Reversible-covalent hydrogels linked by photosensitive coumarin dimers" ACS National Meeting, Washington, DC, August 2017.
258. **C. Adrian Figg**, James Hickman, Georg Scheutz, Sivaprakash Shanmugam, Bryan Tucker, Richard Carmean, Cyrille Boyer, Brent Sumerlin "Color-coding visible-light polymerizations to elucidate mechanisms" ACS National Meeting, Washington, DC, August 2017. *Poster*.
259. Soufiane Nadif, Stella Gonsales, Tomohiro Kubo, Christopher Roland, Khalil Abboud, Brent Sumerlin, **Adam Veige** "Catalysts for cyclic polymer synthesis" ACS National Meeting, Washington, DC, August 2017.
260. **Brent S. Sumerlin** "Next-Generation Responsive, Biological, and Dynamic Materials" Department of Chemistry seminar, University of Texas at Austin, Austin, TX, July 2017. *Invited*.
261. R. Nicholas Carmean, Hao Sun, Christopher P. Kabb, Megan R. Hill, Yuqiong Dai, Michael B. Sims, Troy E. Becker, **Brent S. Sumerlin** "Controlled Polymerization for Ultra-High Molecular Weights and Polymers Capable of Topological Transformations" Emergent Macromolecular Systems 2017, CUNY Advanced Science Research Center and Hunter College, New York, New York, June 2017. *Invited*.
262. Hao Sun, R. Nicholas Carmean, Megan R. Hill, C. Adrian Figg, Jessica Cash, **Brent S. Sumerlin** "Macromolecular Metamorphosis: An Alternative Approach to Stimuli-Responsive Materials" Advanced Polymers via Macromolecular Engineering (APME 2017), Ghent, Belgium, May 2017. *Invited*.
263. **Brent S. Sumerlin** "Synthesis of Next-Generation Responsive, Biological & Dynamic Materials" Max Planck Institute for Polymer Research, Mainz, Germany, seminar, May 2017.
264. **Christopher S. O'Bryan**, Christopher P. Kabb, Sangwoo Park, Brent S. Sumerlin, Thomas E. Angelini "The role of multivalent ion – polyelectrolyte interactions in microgel rheology" Annual Meeting of The Society of Rheology, Houston, Texas, October 2017.
265. **Angela A. Pitenis**, Christopher P. Kabb, Juan Manuel Urueña, Sean Niemi, Kylie Van Meter, Brent S. Sumerlin, Thomas E. Angelini, W. Gregory Sawyer "Hydrogel wear" Society of Tribologists and Lubrication Engineers (STLE) Annual Meeting & Exhibition, Atlanta, GA, May 2017. *Oral*.
266. **Eric Fuller**, Hao Sun, Brent S. Sumerlin, Carlos Rinaldi "Magnetically Triggered Drug Release from Nanoparticles" Biomedical Engineering Society (BMES) Annual Meeting, Phoenix, AZ, October

2017.

267. **Georg M. Scheutz**, Brent S. Sumerlin "Dynamic Thiol-Disulfide Exchange of Cyclic Disulfides for Self-Healing Hydrogels" Florida Annual Meeting and Exposition - FAME 2017 (ACS), Palm Harbor, FL, May 2017. *Poster*.
268. **Tomohiro Kubo**, Kyle C. Bentz, Kristin C. Powell, C. Adrian Figg, Jeremy L. Swartz, Maxym Tansky, Anuj Chauhan, Daniel A. Savin, Brent S. Sumerlin "Amphiphilic Homopolymers via Successive Chemoselective Post-Polymerization Modification" Florida Annual Meeting and Exposition - FAME 2017 (ACS), Palm Harbor, FL, May 2017. *Poster*.
269. **Christopher P. Kabb**, Christopher S. O'Bryan, W. Gregory Sawyer, Brent S. Sumerlin "Reversible-covalent hydrogels linked by photosensitive coumarin dimers" Florida Annual Meeting and Exposition - FAME 2017 (ACS), Palm Harbor, FL, May 2017. *Oral*.
270. **Christopher P. Kabb**, Christopher S. O'Bryan, W. Gregory Sawyer, Thomas E. Angelini, Brent S. Sumerlin "Reversible-covalent hydrogels linked by photosensitive coumarin dimers" Florida Annual Meeting and Exposition - FAME 2017 (ACS), Palm Harbor, FL, May 2017. *Poster*.
271. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, **Brent Sumerlin** "Macromolecular Metamorphosis" Materials Research Society (MRS) National Meeting, Phoenix, AZ, April 2017. *Invited*.
272. Charles Figg, Tomohiro Kubo, R. Carmean, Christopher Kabb, **Brent Sumerlin** "New strategies for polymer functionalization: From multifunctional homopolymers to polymeric thermometers" ACS National Meeting, San Francisco, CA, April 2017. *Invited*.
273. Hao Sun, Christopher Kabb, Yuqiong Dai, Megan Hill, **Brent Sumerlin** "Topological transformations via dynamic-covalent chemistry" ACS National Meeting, San Francisco, CA, April 2017. *Invited*.
274. **Christopher P. Kabb**, Christopher S. O'Bryan, W. Gregory Sawyer, Thomas E. Angelini, Brent S. Sumerlin "Reversible-covalent hydrogels linked by photosensitive coumarin dimers" Biomaterials Day 2017, Gainesville, FL, March 2017, *poster*.
275. **Brent S. Sumerlin**, R. Nicholas Carmean, Georg Scheutz, C. Adrian Figg "Exploiting Light to Push the Limits of Controlled Radical Polymerization" Pan-Poly Conference, Sao Paulo, Brazil, March 2017. *Keynote*.
276. **Jeremy L. Swartz**, Tomohiro Kubo, Brent S. Sumerlin "Synthesis and Polymerization of a Novel Amino Acid-Derived Monomer" UF Undergraduate Research Symposium, Gainesville, FL, March 2017, *poster*.
277. **Tristin S. Latty**, Tomohiro Kubo, Brent S. Sumerlin "Dynamic Light Scattering Study of Zwitterionic Amphiphilic Homopolymers" UF Undergraduate Research Symposium, Gainesville, FL, March 2017, *poster*.
278. **Christopher S. O'Bryan**, Tapomoy Bhattacharjee, Samuel Hart, Christopher P. Kabb, Kyle D. Schulze, Indrasena Chilakala, Brent S. Sumerlin, W. Gregory Sawyer, Thomas E. Angelini "Silicone 3D printing in micro-organogels" Soft Matter Applied Research and Technology Symposium (UF SMARTS), Gainesville, FL, January 2017.
279. **Rebecca A. Olson**, C. Adrian Figg, Brent S. Sumerlin " $\alpha, \alpha', \omega, \omega'$ -Heterotetrafunctionalized RAFT Polymers" Soft Matter Applied Research and Technology Symposium – SMARTS 2017, Gainesville, FL, January 2017, *Poster*.
280. **Georg Scheutz**, Brent S. Sumerlin "Dynamic Thiol-Disulfide Exchange of Cyclic Disulfides for Self-Healing Hydrogels" Soft Matter Applied Research and Technology Symposium - SMARTS 2017,

Gainesville, FL, January 2017, *Poster*.

281. **Christopher P. Kabb**, Christopher S. O'Bryan, W. Gregory Sawyer, Thomas E. Angelini, Brent S. Sumerlin "3D-Printed Hydrogels Linked by Reversible-Covalent Coumarin Dimers" Soft Matter Applied Research and Technology Symposium - SMARTS 2016, Gainesville, FL, January 2017.
282. C. Adrian Figg, **James D. Hickman**, Sivaprakash Shanugam, R. Nicholas Carmean, Georg Scheutz, Bryan S. Tucker, Cyrille Boyer, and Brent S. Sumerlin "A Light-Regulated Polymerization Mechanism" Soft Matter Applied Research and Technology Symposium - SMARTS 2016, Gainesville, FL, January 2017, *Poster*.
283. **Yuqiong Dai**, Hao Sun, Sunirmal Pal, Yunlu Zhang, Sangwoo Park, Christopher P. Kabb, Wei David Wei, Brent S. Sumerlin "Near-IR-induced dissociation of thermally-sensitive star polymers" Soft Matter Applied Research and Technology Symposium - SMARTS 2017, Gainesville, FL, January 2017.
284. **Michael B. Sims**, Kush Y. Patel, Mallika Bhatta, Soma Mukherjee, Brent S. Sumerlin "Acid-Degradable Segmented Hyperbranched Polymers by RAFT Polymerization of Imine-Containing Crosslinkers" Soft Matter Applied Research and Technology Symposium - SMARTS 2017, Gainesville, FL, January 2017, *Poster*.
285. **Xioping Xin**, Zhenli He, Megan R. Hill, Brent S. Sumerlin, R. Niedz, X. Jiang "Efficiency of biodegradable and pH-responsive nanoparticles as smart nano-delivery systems in plants: in vitro cellular investigation" Herald's International Conference and Exhibition on Nanomedicine and Nanotechnology, Baltimore, MD, October 2016.
286. **Christopher P. Kabb**, Christopher O'Bryan, W. Gregory Sawyer, Thomas E. Angelini, and Brent S. Sumerlin "3D-Printed Hydrogels Crosslinked by Coumarin Dimers" Soft Matter Symposium, Gainesville, FL, October 2016.
287. **Brent S. Sumerlin** "Dynamic Polymers for Responsive Materials" Washington State University, Department of Chemistry seminar, September 2016. *Invited*.
288. **Brent S. Sumerlin** "Photosynthate-responsive polymeric nano-carriers for phloem-specific delivery in the treatment of HLB" University of California, Davis, Citrus Research Board Workshop on HLB, Davis, CA, September 2016. *Invited*.
289. Brett P. Fors, **Brent S. Sumerlin** "Precision tailoring of macromolecules by controlled polymerizations" ACS National Meeting, Philadelphia, PA, August 2016. *Invited*.
290. **Brent S. Sumerlin** "Dynamic Polymers for Responsive Materials" Warwick Polymer Conference, Coventry, UK, July 2016. *Invited*.
291. **Brent S. Sumerlin** "Dynamic Polymers for Responsive Materials" Japan-U.S. Polymer Symposium, Niseko, Japan, June 2016. *Invited*.
292. **Brent S. Sumerlin**, Bryan Tucker, Jon Stewart, J. Ignacio Aguirre "Responsive polymer-protein conjugates: From stimulus-induced self-assembly to the treatment of accelerated bone disorders" Polymers for Protein Engineering Symposium, Carnegie Mellon University, Pittsburgh, PA, June 2016. *Invited*.
293. Megan R. Hill, **Andrew C. Turner**, Brent S. Sumerlin "Hyperbranched Polypeptides via Self-Condensing Ring-Opening Polymerization of N-Carboxyanhydrides" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.

294. **Jessica J. Cash**, Tomohiro Kubo, Abhijeet P. Bapat, Brent S. Sumerlin "Free Diol and Dual Crosslinked Boronic Ester Self-Healing Networks" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.
295. **Yuqiong Dai**, Hao Sun, Brent S. Sumerlin "Thermally Responsive Gels based on Diel-Alder Reaction" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.
296. **Charles P. Easterling**, Zachary M. Orr, Gail E. Fanucci, Brent S. Sumerlin "Triazabicyclodecene as an Organocatalyst for Post-Polymerization Modification Reactions" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.
297. **Christopher P. Kabb**, Christopher O'Bryan, W. Gregory Sawyer, Thomas E. Angelini, Brent S. Sumerlin "Synthesis of Hydrogels from RAFT Prepolymers via an End-Linking Strategy" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.
298. **Michael B. Sims**, Mallika Bhatta, Soma Mukherjee, Brent S. Sumerlin "Acid-Degradable Segmented Hyperbranched Polymers by RAFT Polymerization of Imine-Containing Crosslinkers" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.
299. **C. Adrian Figg**, R. Nicholas Carmean, Soma Mukherjee, Alexandre Simula, Kalkidan A. Gebre, Bryan S. Tucker, Daniel A. Savin, David M. Haddleton, Brent S. Sumerlin "Polymerization-Induced Thermal Self-Assembly (PITSA)" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016, *Poster*.
300. **C. Adrian Figg**, R. Nicholas Carmean, Soma Mukherjee, Alexandre Simula, Kalkidan A. Gebre, Bryan S. Tucker, Daniel A. Savin, David M. Haddleton, Brent S. Sumerlin "Polymerization-Induced Thermal Self-Assembly (PITSA)" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016.
301. Tomohiro Kubo, **Jeremy L. Swartz**, C. Adrian Figg, Brent S. Sumerlin "Efficient Functionalization of Polymers Using 2,4,6-Trichloro-1,3,5-Triazine" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016.
302. Tomohiro Kubo, **Maxym Tansky**, Brent S. Sumerlin "Macrocyclization of Block Copolymers via Click Chemistry" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016.
303. **Stella A. Gonsales**, Tomohiro Kubo, Madison K. Flint, Khalil A. Abboud, Brent S. Sumerlin, Adam S. Veige "Highly Tactic Cyclic Polynorbornene: Stereoselective Ring Expansion Metathesis Polymerization (REMP) of Norbornene Catalyzed By a Tethered Tungsten-alkylidene" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016.
304. **Ping Lin**, Bryan S. Tucker, Brent S. Sumerlin, Coray M. Colina "Influence of Polymer Composition and Architecture on the Structure and Function of Protein-Polymer Conjugates" Florida Annual Meeting and Exposition - FAME 2016 (ACS), Palm Harbor, FL, May 2016.
305. **Brent S. Sumerlin** "Synthesis and Investigation of Stimuli-Responsive Polymers Capable of Structurally Dynamic Assembly" University of Minnesota, Department of Chemistry and Department of Chemical Engineering & Materials Science POLY/PMSE seminar. Minneapolis, MN, May 2016. *Invited*.
306. Tomohiro Kubo, **Maxym Tansky**, Brent S. Sumerlin "Macrocyclization of Block Copolymers via Click Chemistry" UF Undergraduate Research Symposium, March 2016.
307. Tomohiro Kubo, **Jeremy L. Swartz**, C. Adrian Figg, Brent S. Sumerlin "Efficient

308. Megan R. Hill, **Andrew C. Turner**, Brent S. Sumerlin “Hyperbranched Polypeptides via Self-Condensing Ring-Opening Polymerization” UF Undergraduate Research Symposium, March 2016.
309. **Brent S. Sumerlin**, Bryan Tucker, Jon Stewart, J. Ignacio Aguirre “Responsive polymer-protein conjugates: From stimulus-induced self-assembly to the treatment of accelerated bone disorders” ACS National Meeting, Boston, MA, March 2016. *Invited*.
310. **Megan Hill**, Elliot Mackrell, Carl Forsthoefel, Shaun Jensen, Mingsheng Chen, Gloria Moore, Zhenli He, Brent Sumerlin “Responsive polymeric nanoparticles designed for site-specific delivery in agriculture” ACS National Meeting, Boston, MA, March 2016.
311. **Bryan Tucker**, Jon Stewart, J. Ignacio Aguirre, L. Shannon Holliday, Charles Figg, Jonathan Messer, Brent Sumerlin “Role of polymer architecture on the activity of protein-polymer conjugates for the treatment of disease” ACS National Meeting, Boston, MA, March 2016.
312. **Patricia Bachler**, Kenneth Wagener, Brent Sumerlin “Hyperbranched phosphonic acid polymers via RAFT-SCVP” ACS National Meeting, Boston, MA, March 2016.
313. **Jawaher Alfurhood**, Hao Sun, Patricia Bachler, Brent Sumerlin “Hyperbranched poly[(*N*-(2-hydroxypropyl) methacrylamide)] via RAFT self-condensing vinyl polymerization” ACS National Meeting, Boston, MA, March 2016.
314. Christopher P. Kabb, **R. Nicholas Carmean**, Brent S. Sumerlin “Probing the surface-localized hyperthermia of gold nanoparticles in a microwave field using polymeric thermometers” ACS National Meeting, Boston, MA, March 2016.
315. **Brent S. Sumerlin** “Synthesis and Investigation of Stimuli-Responsive Polymers Capable of Structurally Dynamic Assembly” University of North Carolina, Chapel Hill, Department of Chemistry Seminar. February 2016.
316. **Tomohiro Kubo**, Maxym Tansky, Brent S. Sumerlin “Macrocyclization of Block Copolymers via Click Chemistry” 17th Florida Heterocyclic and Synthetic Conference, February 2016.
317. **Brent S. Sumerlin** “Dynamic-covalent and stimuli-responsive materials” Nalco Company, Naperville, IL. Nov 2015.
318. **Brent S. Sumerlin** “Dynamic-Covalent Macromolecular Materials” Soft Mater Applied Research and Technology Symposium –SMARTS (UF), December 2015. *Keynote*.
319. **Hao Sun**, Christopher P. Kabb, Dan J. Dobbins, Brent S. Sumerlin “Thermally-labile polymers: probing mechanisms and creating “smart” materials” Soft Mater Applied Research and Technology Symposium –SMARTS (UF), December 2015.
320. Tomohiro Kubo, **Jeremy L. Swartz**, C. Adrian Figg, Brent S. Sumerlin “Efficient Functionalization of Polymers Using 2,4,6-Trichloro-1,3,5-Triazine” UF Soft Matter Applied Research and Technology Symposium, December 2015.
321. **Hao Sun**, Christopher P. Kabb, Brent S. Sumerlin “Reversible Covalent Segmented Hyperbranched Copolymers: Proving the Mechanism of Self-Condensing Vinyl Copolymerization” 3rd Applied Polymer Technology Extension Consortium (APTEC), November 2015.

322. **Tomohiro Kubo**, C. Adrian Figg, Jeremy L. Swartz, William L. A. Brooks, Brent S. Sumerlin "Multifunctional Homopolymers: Post-Polymerization Modification via Sequential Nucleophilic Aromatic Substitution" 3rd Annual Applied Polymer Technology Extension Consortium Meeting, November 2015.
323. **Christopher P. Kabb**, R. Nicholas Carmean, Brent S. Sumerlin "Probing the Surface-Localized Hyperthermia of Gold Nanoparticles in a Microwave Field Using Polymeric Thermometers" 3rd Applied Polymer Technology Extension Consortium Meeting, November 2015
324. Tomohiro Kubo, **Jeremy L. Swartz**, C. Adrian Figg, Brent S. Sumerlin "Efficient Functionalization of Polymers Using 2,4,6-Trichloro-1,3,5-Triazine" 3rd Annual CURBS Fall Undergraduate Research Symposium, October 2015.
325. **Hao Sun**, Christopher P. Kabb, Brent S. Sumerlin "Reversible Covalent Segmented Hyperbranched Copolymers: Providing Fundamental Insight of The Mechanism of Self-Condensing Vinyl Copolymerization" 39th Annual Macromolecular Science & Engineering Symposium, University of Michigan, Ann Arbor, October 2015.
326. **Hao Sun**, Brent S. Sumerlin "Toward Thermally-Degradable Poly(β -thioester)s via One-Pot Thiol-Acrylate Click Step-Growth Polymerization" Graduate Student Research Day – GSRD (UF), October 2015.
327. **Jawaher Alfurhood**, Hao Sun, Patricia Bachler, Brent S. Sumerlin "Hyperbranched Poly[(N-(2-hydroxypropyl)Methacrylamide)] via RAFT Self-Condensing Vinyl Polymerization" Graduate Student Research Day – GSRD (UF), October 2015.
328. **Brent S. Sumerlin** "Probing mechanisms and creating materials through dynamic-covalent chemistry" ACS National Meeting, Boston, MA, August 2016. *Invited.*
329. Bryan S. Tucker, C. Adrian Figg, **Brent S. Sumerlin** "Polymer-protein conjugates for the treatment of disease" ACS National Meeting, Boston, MA, August 2016. *Invited.*
330. **Mallika Bhatta**, Michael B. Sims, Soma Mukherjee, Brent S. Sumerlin "Synthesis of Imine-Containing Hyperbranched Polymers" UF Student Science Training Program, Gainesville, FL, July 2015.
331. Christopher C. Deng, Jessica J. Cash, William L. A. Brooks, **Brent S. Sumerlin** "Structurally Dynamic Assemblies of Stimuli-Responsive Polymers" 13th International Conference of Polymers for Advanced Technologies (PAT 2015), Hangzhou, China, June 2015. *Invited.*
332. **Brent S. Sumerlin** "Combining Covalent Integrity with Adaptability: Responsive Materials Through Reversible Bonds" Gordon Research Conference (Polymers), South Hadley, MA, June 2015. *Invited.*
333. **Brent S. Sumerlin** "Structurally Dynamic Assemblies of Stimuli-Responsive Polymers" PPG Industries, Pittsburgh, PA, May 2015.
334. Megan R. Hill, Elliot J. Mackrell, **Carl P. Forsthoefel**, Shaun P. Jensen, Mingsheng Chen, Gloria A. Moore, Zhenli L. He, Brent S. Sumerlin "pH-Responsive and Biodegradable Nanoparticles Capable of Loading and Releasing Small-Molecule Cargo" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
335. **Hao Sun**, Christopher P. Kabb, Brent S. Sumerlin "Thermally-labile segmented hyperbranched copolymers: using reversible-covalent chemistry to investigate the mechanism of self-condensing vinyl copolymerization" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.

336. **Sunirmal Pal**, Megan R. Hill, and Brent S. Sumerlin "Facile RAFT Synthesis of Dual-Responsive Hyperbranched Polymers and Core-Crosslinked Star Polymers with Tunable Reversibility" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
337. **Patricia R. Bachler**, Michael D. Schulz, Chelsea A. Sparks, Kenneth B. Wagener, Brent S. Sumerlin "Aminobisphosphonate Polymers via RAFT and a Multicomponent Kabachnik-Fields Reaction" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
338. **Tomohiro Kubo**, C. Adrian Figg, William L. A. Brooks, Brent S. Sumerlin "Pendent Hetero-Difunctionalized Polymers Prepared from 2,4,6-Trichloro-1,3,5-triazine" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
339. **Jessica J. Cash**, Tomohiro Kubo, Abhijeet P. Bapat, Brent S. Sumerlin "Room-Temperature Self-Healing Polymers Based on Dynamic-Covalent Boronic Esters" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
340. **Christopher P. Kabb**, R. Nicholas Carmean, Brent S. Sumerlin "Probing the Surface-Localized Hyperthermia of Gold Nanoparticles in a Microwave Field Using Polymeric Thermometers" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
341. **Soma Mukherjee**, Megan R. Hill, Brent S. Sumerlin "Self-healing Hydrogels Containing Reversible Oxime Crosslinks with Tunable Gelation and Degradation Behavior" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
342. **C. Adrian Figg**, Tomohiro Kubo, Brent S. Sumerlin "Nucleophilic ω,ω -hetero-disubstitution of poly(ethylene glycol) methyl ether end-groups" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
343. **Jawaher A. Alfurhood**, Brent S. Sumerlin "Synthesis of Biocompatible Hyperbranched Polymer-drug Conjugate Based on PHPMA" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
344. **R. Nicholas Carmean**, Troy Becker, Brent S. Sumerlin "RAFT Polymerization Using UV Irradiation for One-Pot Block Copolymerization and Multiblock Synthesis" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
345. **Michael B. Sims**, Soma Mukherjee, Brent S. Sumerlin "Synthesis and Degradation of Imine-Containing Hyperbranched Polymers" Florida Annual Meeting and Exposition - FAME 2015 (ACS), Palm Harbor, FL, May 2015.
346. **Brent S. Sumerlin** "Exploiting reversible-covalent chemistry to investigate materials and mechanisms" Miami University, Department of Chemistry Seminar, May 2015. *Invited.*
347. **Brent S. Sumerlin** "Reversible-covalent materials: Expanding the concept of stimuli-responsive materials" University of Washington, Department of Chemistry Seminar, April 2015. *Invited.*
348. **Andreina Chiu-Lam**, Lorena Maldonado-Camargo, Daniel J. Dobbins, Hao Sun, Brent S. Sumerlin, and Carlos Rinaldi "Optimizing Methods of Nanoparticle Coating to Minimize Non-specific Uptake" Biomedical Engineering Society Annual Meeting, October 2015, Tampa, FL.
349. Soma Mukherjee, Christopher Deng, William Brooks, Megan R. Hill, **Brent Sumerlin** "Dynamic-covalent nanoparticles and self-healing hydrogels" ACS National Meeting, Denver, CO, March 2015. *Invited.*

350. Hao Sun, Christopher Kabb, Soma Mukherjee, **Brent Sumerlin** "Exploiting reversible-covalent chemistry to investigate materials and mechanisms" ACS National Meeting, Denver, CO, March 2015. *Invited*.
351. **Soma Mukherjee**, Megan Hill, Brent Sumerlin "Oxime-functional hydrogels with tunable gelation and degradation behavior" ACS National Meeting, Denver, CO, March 2015.
352. **Soma Mukherjee**, Abhijeet Bapat, Megan Hill, Brent Sumerlin "Oximes as reversible links in polymer chemistry: Dynamic macromolecular stars" ACS National Meeting, Denver, CO, March 2015.
353. **Brent S. Sumerlin** "Reversible-covalent materials: Expanding the concept of stimuli-responsive materials" National Chiao Tung University, Department of Chemistry, Hsinchu, Taiwan. Chemistry Promotion Center Visiting Lecturer, March 2015. *Invited*.
354. **Brent S. Sumerlin** "Reversible-covalent materials: Expanding the concept of stimuli-responsive materials" National Tsing Hua University, Department of Chemistry, Hsinchu, Taiwan. Chemistry Promotion Center Visiting Lecturer, March 2015. *Invited*.
355. **Brent S. Sumerlin** "Reversible-covalent materials: Expanding the concept of stimuli-responsive materials" National Taiwan University, Department of Chemistry, Taipei, Taiwan. Chemistry Promotion Center Visiting Lecturer, March 2015. *Invited*.
356. **Brent S. Sumerlin** "Synthesis of Stimuli-Responsive Polymers Capable of Structurally Dynamic Assembly" Emory University, Department of Chemistry, Departmental Seminar, February 2015. *Cancelled due to inclement weather*.
357. **Brent S. Sumerlin** "Reversible-covalent materials: Expanding the concept of stimuli-responsive materials" University of Florida, Department of Materials Science & Engineering Seminar, February 2015. *Invited*.
358. **C. Adrian Figg**, Tomohiro Kubo, and Brent S. Sumerlin "Pendent Hetero-Difunctionalized Polymers Prepared from 2,4,6-Trichloro-1,3,5-triazine" FLOHET-2015 Annual Florida Heterocyclic and Synthetic IUPAC-Sponsored Conference, March 2015. *Poster*.
359. **Tomohiro Kubo**, C. Adrian Figg, Williams L. A. Brooks, and Brent S. Sumerlin "Nucleophilic hetero-disubstitution of poly(ethylene glycol) methyl ether end groups" FLOHET-2015 Annual Florida Heterocyclic and Synthetic IUPAC-Sponsored Conference, March 2015. *Poster*.
360. William L. A. Brooks, Soma Mukherjee, Abhijeet P. Bapat, **Brent S. Sumerlin**, "Boronic Acids Block Copolymers: Sugar-Responsive Delivery Agents and Dynamic-Covalent Biomaterials" International Conference on Polymer Science and Technology (Macro 2015), Kolkata, India. January 2015. *Plenary*.
361. **Soma Mukherjee**, Megan R. Hill, Brent S. Sumerlin "Oximes as Reversible Links in Polymer Chemistry: Dynamic Macromolecular Stars" International Conference on Polymer Science and Technology (Macro 2015), Kolkata, India. January 2015. *Poster*.
362. **Sunirmal Pal**, Megan R. Hill, Brent S. Sumerlin "Synthesis of Dual Stimuli-Responsive Disulfide Containing Hyperbranched Polymer by RAFT Polymerization and Formation of Core-Crosslinked Star Polymer Possessing Redox-Responsive Hyperbranched Core" International Conference on Polymer Science and Technology (Macro 2015), Kolkata, India. January 2015. *Poster*.
363. **Brent S. Sumerlin** "Reversible-covalent materials: Expanding the concept of stimuli-responsive materials" Gordon Research Conference (Macromolecular Materials), Ventura, CA, January 2015. *Invited*.

364. **C. Adrian Figg**, Alexandre Simula, Kalkidan Asmelash Gebre, Bryan S. Tucker, David M. Haddleton, Brent S. Sumerlin "Polymerization-Induced Self-Assembly (PITSA)" Gordon Research Conference (Macromolecular Materials), Ventura, CA, January 2015. *Poster*.
365. William L. A. Brooks, Megan R. Hill, **Brent S. Sumerlin** "Dynamic Assemblies of Stimuli-Responsive Polymers" 3rd US-Mexico Symposium on Advances in Polymer Science (Macromex), Nuevo Vallarta, Mexico. December. *Invited*.
366. **Brent S. Sumerlin** "Controlled radical polymerization as a tool in medicine and biology" Department of Polymer Engineering, University of Akron, Departmental Seminar, Akron, OH, November 2014. *Invited*.
367. **Brent S. Sumerlin** "Controlled radical polymerization as a tool in medicine and biology" ACS National Meeting, San Francisco, CA, August 2014. *Invited*.
368. Jessica Cash, Soma Mukherjee, Abhijeet P. Bapat, **Brent S. Sumerlin** "Macromolecular dynamic duo: Combining covalent integrity with adaptability" ACS National Meeting, San Francisco, CA, August 2014. *Invited*.
369. Bryan S. Tucker, Megan R. Hill, Mingsheng Chen, C. Adrian Figg, **Brent S. Sumerlin** "Responsive and Well-Defined Polymers for Delivery of Proteins and other Therapeutics" 5th Sydney International Nanomedicine Conference, Sydney, Australia, July 2014. *Invited*.
370. C. Adrian Figg, **Maria Cristina A. Dancel**, Bryan S. Tucker, Brent S. Sumerlin "MALDI-TOF Characterization of α,α -Difunctionalized Poly(ethylene glycol) for Bioconjugate Synthesis" American Society for Mass Spectrometry, Baltimore, MD, June 2014.
371. **Brent S. Sumerlin** "Dynamic-Covalent Polymeric Materials" 4th KACST-Oxford Petrochemicals Forum, Riyadh, Saudi Arabia, May 2014. *Invited*.
372. **Brent S. Sumerlin** "Responsive assemblies and self-healing networks based on dynamic-covalent bonds" Polymer Club Insight Day, University of Warwick, Coventry, UK, May 2014. *Invited*.
373. Soma Mukherjee, Jessica Cash, Abhijeet P. Bapat, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** "Networks and nanoparticles with self-healing behavior via dynamic-covalent chemistry" ACS National Meeting, Dallas, TX, March 2014. *Invited*.
374. **Jessica J. Cash**, Brent S. Sumerlin "Stimuli-Responsive and Self-Healing Boronic Ester Polymers" ACS National Meeting, Dallas, TX, March 2014.
375. **Soma Mukherjee**, Abhijeet P. Bapat, Daniel A. Savin, Brent S. Sumerlin "Reversible macromolecular architectures composed of oxime bonds" ACS National Meeting, Dallas, TX, March 2014.
376. Abhijeet P. Bapat, Soma Mukherjee, **Brent S. Sumerlin** "Dynamic-Covalent Nanoparticles as Responsive Materials" Fusion Conference on Functional Polymeric Materials, Cancun, Mexico, February 2014. *Invited*.
377. **Elliot MacKrell**, Megan R. Hill, Brent S. Sumerlin "pH-Responsive and biodegradable nanoparticles capable of loading and releasing small-molecule cargo" Florida Undergraduate Research Conference, Florida International University, Miami, FL, February 2014.
378. **Brent S. Sumerlin** University of Puerto Rico Rio Piedras, San Juan, Puerto Rico, Research Initiative for Scientific Enhancement (RISE) seminar, January, 2014. *Invited*.
379. William L. A. Brooks, Soma Mukherjee, Abhijeet P. Bapat, **Brent S. Sumerlin** "Boronic Acid Block Copolymers: Sugar-Responsive Delivery Agents and Dynamic-Covalent Biomaterials" Pacific

Polymer Conference, Kaohsiung, Taiwan, November 2013. *Invited.*

380. **Megan R. Hill**, Elliot M. MacKrell, Brent S. Sumerlin “pH-responsive and Biodegradable Nanoparticles Capable of Loading and Releasing Small-molecule Cargo” International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA, October 2013.
381. **Brent S. Sumerlin** University of Tennessee, Knoxville, Department of Chemistry, Departmental seminar, September, 2013. *Invited.*
382. Hongmei Li, Ming Li, Xiao Yu, Jinbao Cao, and **Brent S. Sumerlin** “Well-Defined Responsive Polymer-Protein Conjugates” ACS National Meeting, Indianapolis, IN, September 2013. *Invited.*
383. Jennifer N. Cambre, Debashish Roy, William L. A. Brooks, **Brent S. Sumerlin** “Boronic acid block copolymers: sugar-responsive materials for drug delivery” ACS National Meeting, Indianapolis, IN, September 2013. *Invited.*
384. **Abhijeet P. Bapat**, Jacob G. Ray, Daniel A. Savin, Brent S. Sumerlin “Dynamic-covalent star nanostructures prepared from functional block copolymers obtained by RAFT polymerization” ACS National Meeting, Indianapolis, IN, September 2013. *Invited.*
385. **Brent S. Sumerlin** “Smart polymer-protein hybrids and sugar-responsive micelles” 4th Sydney International Nanomedicine Conference, Sydney, Australia, July 2013. *Invited.*
386. Abhijeet P. Bapat, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** “Dynamic-Covalent Nanoparticles as Responsive Materials” Recent Advances in Polymer Science and Engineering, QLD Polymer Group Symposium, University of Queensland in Brisbane, Australia. July 2013. *Invited.*
387. Jennifer N. Cambre, Debashish Roy, Abhijeet P. Bapat, Hongmei Li, Ming Li, Priyadarsi De, **Brent S. Sumerlin** “Smart polymer-protein hybrids and sugar-responsive micelles” Australasian Polymer Symposium, Darwin, Australia. July 2013. *Keynote.*
388. Abhijeet P. Bapat, Jacob G. Ray, Daniel A. Savin, Emily A. Hoff, Derek L. Patton, **Brent S. Sumerlin** “Dynamic-covalent macromolecular stars” Gordon Research Conference – Polymers, South Hadley, MA, June 2013. *Poster.*
389. Abhijeet P. Bapat, Soma Mukherjee, Hongmei Li, Ming Li, Priyadarsi De, Jennifer N. Cambre, Debashish Roy, **Brent S. Sumerlin** State University of New York, University at Buffalo, 31st Annual Chemistry Graduate Student Symposium, May 2013. *Keynote.*
390. **Brent S. Sumerlin** University of California, San Diego, Department of Chemistry & Biochemistry Seminar, April 2013. *Invited.*
391. Abhijeet P. Bapat, Soma Mukherjee, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** “Dynamic-Covalent Nanoparticles as Responsive Materials” ACS National Meeting, New Orleans, April 2013. *Invited.*
392. **Brent S. Sumerlin** Nanoscience Institute for Medical and Engineering Technology (NIMET) at UF. Perspectives on Diabetes, January 2013. *Invited.*
393. **Brent S. Sumerlin** Case Western Reserve University, Department of Macromolecular Science Seminar, December 2012. *Invited.*
394. **Brent S. Sumerlin** “Dynamic-covalent macromolecular materials” Zing Polymer Chemistry Conference, Xcaret, Mexico. November 2012. *Invited.*

395. **Soma Mukherjee**, Abhijeet P. Bapat, Brent S. Sumerlin “Core-crosslinked Star Polymers Composed of Dynamic-covalent Oxime Linkages” International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA, October 2012.
396. **Megan R. Hill**, Brent S. Sumerlin, Soma Mukherjee, Philip J. Costanzo “Modular Oxime Functionalization of Alkoxyamine-Containing Polymers” International Symposium on Stimuli-Responsive Materials, Santa Rosa, CA, October 2012.
397. **Brent S. Sumerlin** “Stimuli-responsive macromolecules: Polymer-protein conjugates and sugar-responsive micelles” 1st Polymer Chemistry International Symposium, Tsinghua University, Beijing, China. September 2012. *Invited*.
398. **Brent S. Sumerlin** “Stimuli-responsive macromolecules: Polymer-protein conjugates and sugar-responsive micelles” 1st Polymer Chemistry International Symposium, Soochow University, Suzhou, China. September 2012. *Invited*.
399. **Brent S. Sumerlin** “Stimuli-responsive macromolecules: Polymer-protein conjugates and sugar-responsive micelles” 1st Polymer Chemistry International Symposium, Fudan University, Beijing, China. September 2012. *Invited*.
400. Ming Li, Hongmei Li, Hao Sun, **Brent S. Sumerlin** “Responsive block copolymer-protein conjugates” ACS National Meeting, Philadelphia, August 2012. *Invited*.
401. Abhijeet P. Bapat, Soma Mukherjee, Jessica J. Cash, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** “Dynamic-Covalent Macromolecular Assemblies of Organoboron Polymers” ACS National Meeting, Philadelphia, August 2012. *Invited*.
402. Abhijeet P. Bapat, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** “Dynamic-covalent branched macromolecules” Warwick Polymer Chemistry Conference –University of Warwick, Coventry, U.K. July 2012. *Invited*.
403. Jennifer N. Cambre, Debashish Roy, Abhijeet P. Bapat, Hongmei Li, Ming Li, Priyadarsi De, **Brent S. Sumerlin** “Stimuli-responsive macromolecules: Polymer-protein conjugates and sugar-responsive micelles” 3rd International Nanomedicine Conference, Sydney, Australia. July 2012. *Invited*.
404. Abhijeet P. Bapat, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** “Arm-first, core-crosslinked stars containing dynamic-covalent Diels-Alder linkages” World Polymer Conference – IUPAC Macro 2012, Blacksburg, VA. June 2012. *Invited*.
405. **Brent S. Sumerlin**, Ming Li, Hongmei Li, Abhijeet P. Bapat, Hao Sun “Responsive polymer-protein hybrid materials” World Polymer Conference – IUPAC Macro 2012, Blacksburg, VA. June 2012. *Invited*.
406. **Abhijeet P. Bapat**, Soma Mukherjee, Jacob G. Ray, Daniel A. Savin, Brent S. Sumerlin “Dynamic-covalent macromolecular architectures” World Polymer Conference – IUPAC Macro 2012, Blacksburg, VA. June 2012.
407. **Brent S. Sumerlin**, Hongmei Li, Ming Li, Jennifer N. Cambre, Debashish Roy “Responsive Polymer-protein Conjugates and Sugar-responsive Polymeric Micelles” Gordon Research Conference on Biointerfaces. Les Diablerets, Switzerland. May 2012. *Invited*.
408. **Megan R. Hill**, Soma Mukherjee, Philip J. Costanzo, Brent S. Sumerlin “Modular Oxime Functionalization of Well-Defined Alkoxyamine-Containing Polymers” ACS National Meeting, San Diego, CA, March 2012.

409. Abhijeet P. Bapat, Debashish Roy, Jacob G. Ray, Daniel A. Savin, **Brent S. Sumerlin** "Responsive dynamic-covalent nanostructures based on boronic esters" ACS National Meeting, San Diego, CA, March 2012. *Invited*.
410. Hongmei Li, Ming Li, Priyadarsi De, **Brent S. Sumerlin** "Stimuli-responsive block copolymer-protein hybrids" ACS National Meeting, San Diego, CA, March 2012. *Invited*.
411. **Brent S. Sumerlin** "Making proteins smarter by conjugation with stimuli-responsive polymers" 33rd Australasian Polymer Conference, Hobart, TAS, Australia, February 2012. *Invited*.
412. **Brent S. Sumerlin** Eastman Kodak Co., Materials Council Seminar Series, February 2012. *Invited*.
413. **Brent S. Sumerlin** University of Science and Technology of China, Hefei, China, January 2012. *Invited*.
414. **Brent S. Sumerlin** Peking University, Beijing, China, January 2012. *Invited*.
415. **Brent S. Sumerlin** Institute of Chemistry, Chinese Academy of Sciences, Beijing, China, January 2012. *Invited*.
416. **Brent S. Sumerlin** Shanghai Jiao Tong University, Shanghai, China, January 2012. *Invited*.
417. **Brent S. Sumerlin** Evonik Meets Science 2012, Pittsburgh, PA, December 2011. *Invited*.
418. **Brent S. Sumerlin** University of Montana, Department of Chemistry, Departmental Seminar, November 2011. *Invited*.
419. **Brent S. Sumerlin** International Symposium on Stimuli-Responsive Materials, University of Southern Mississippi, October 2011. *Plenary*.
420. **Brent S. Sumerlin** University of North Texas, Department of Chemistry, Departmental Seminar, October 2011. *Invited*.
421. **Brent S. Sumerlin** "Responsive Polymer-protein Conjugates and Sugar-responsive Polymeric Micelles" Polymers in Medicine and Biology: 2011. Santa Rosa, CA, September 2011. *Invited*.
422. Hongmei Li, Ming Li, Xiao Yu, Jinbao Cao, **Brent S. Sumerlin** "Responsive Polymer-Protein Conjugates by RAFT Polymerization" ACS National Meeting, Denver, CO, August 2011. *Invited*.
423. **Jennifer N. Cambre**, Debashish Roy, Brent S. Sumerlin "Boronic Acid Block Copolymers: Synthesis via RAFT and Aqueous Solution Self-Assembly" ACS National Meeting, Denver, CO, August 2011.
424. Patrick Wilke, Hongmei Li, Brent S. Sumerlin, **Hans Börner** "Activity control of enzymatic properties in protein-polymer conjugates" ACS National Meeting, Denver, CO, August 2011.
425. Ming Li, Hongmei Li, Priyadarsi De, **Brent S. Sumerlin** "Polymer-protein conjugates: The best of both worlds" Indonesian-American Kavli Frontiers of Science Symposium in Bogor, Indonesia, July 2011. *Invited poster*.
426. Ming Li, Hongmei Li, Priyadarsi De, **Brent S. Sumerlin** "Stimuli-responsive polymer-protein conjugates prepared by RAFT" Gordon Research Conference – Polymers, South Hadley, MA, June 2011. *Poster*.

427. **Brent S. Sumerlin** University of Florida, George and Josephine Butler Polymer Research Laboratory, Department of Chemistry, Seminar, May 2011. *Invited*.
428. **Brent S. Sumerlin** University of Warwick, Department of Chemistry, Departmental Seminar, May 2011. *Invited*.
429. **Brent S. Sumerlin** Cambridge University, Melville Laboratory for Polymer Synthesis, Department of Chemistry, Seminar, May 2011. *Invited*.
430. **Brent S. Sumerlin** Tulane University, Department of Chemistry, Departmental Seminar, March 2011. *Invited*.
431. **Brent S. Sumerlin** University of Minnesota, Department of Chemistry, Departmental Seminar, February 2011. *Invited*.
432. **Brent S. Sumerlin** Northeastern University, Department of Chemistry & Chemical Biology, Departmental Seminar, January 2011. *Invited*.
433. Jennifer N. Cambre, Debashish Roy, Hongmei Li, Ming Li, **Brent S. Sumerlin** "Smart polymer-protein conjugates and sugar-responsive micelles" Pacifichem 2010, Honolulu, HI, December 2010. *Invited*.
434. **Brent S. Sumerlin** Texas A&M University, Department of Chemistry, Organic Seminar, December 2010. *Invited*.
435. Hongmei Li, Ming Li, **Brent S. Sumerlin** "Thermoresponsive polymer-protein conjugates prepared by RAFT polymerization" at the Southeast Regional Meeting of the American Chemical Society in New Orleans, LA, December 2010. *Invited*.
436. **Brent S. Sumerlin** Georgia Tech, School of Materials Science and Engineering, PTFE Seminar, November 2010. *Invited*.
437. **Brent S. Sumerlin**, Ming Li, Hongmei Li, Priyadarsi De "Stimuli-responsive block copolymer-protein conjugates" International Symposium on Stimuli-Responsive Materials, University of Southern Mississippi, Hattiesburg, MS. October 2010. *Plenary*.
438. **Brent S. Sumerlin** Virginia Tech, Macromolecules and Interfaces Institute Seminar, October 2010. *Invited*.
439. **Brent S. Sumerlin** Washington University in St. Louis, Department of Chemistry, Departmental Seminar, September 2010. *Invited*.
440. Ming Li, Hongmei Li, Abhijeet P. Bapat, Priyadarsi De, **Brent S. Sumerlin** "Functional polymers and polymer-protein conjugates prepared by RAFT and thiol-ene reactions" ACS National Meeting, Boston, MA, August 2010. *Invited*.
441. Jennifer N. Cambre, Debashish Roy, Abhijeet P. Bapat, **Brent S. Sumerlin** "Macromolecular assemblies of organoboron block copolymers" ACS National Meeting, Boston, MA, August 2010. *Invited*.
442. **Brent S. Sumerlin** "Stimuli-responsive polymer-protein conjugates and 'sweet-tooth' micelles" ACS National Meeting, Boston, MA, August 2010. *Invited contribution to ORGN Young Academic Investigators symposium*.
443. **Debashish Roy**, Jennifer N. Cambre, Brent S. Sumerlin "Triply-responsive organoboron block copolymers" ACS National Meeting, Boston, MA, August 2010.

444. **Jennifer N. Cambre**, Debashish Roy, Brent S. Sumerlin "Sugar-responsive organoboron block copolymers" ACS National Meeting, Boston, MA, August 2010.
445. **Young Hoon Lim**, Jennifer N. Cambre, Debashish Roy, Brent S. Sumerlin "Biocompatible boronic Acid polymers Prepared by atom transfer Radical polymerization (ATRP)" ACS National Meeting, Boston, MA, August 2010.
446. **Hongmei Li**, Ming Li, Abhijeet P. Bapat, Brent S. Sumerlin "Smart polymer-protein conjugates by RAFT polymerization and activated ester chemistry." ACS National Meeting, Boston, MA, August 2010.
447. **Abhijeet P. Bapat**, Debashish Roy, Brent S. Sumerlin "Dynamic-covalent macromolecular stars" ACS National Meeting, Boston, MA, August 2010.
448. **Debashish Roy**, Aman Ullah, Brent S. Sumerlin "Microwave-assisted MADIX/RAFT polymerization of acrylamido and vinyl ester monomers" ACS National Meeting, Boston, MA, August 2010.
449. **Brent S. Sumerlin**, Hongmei Li, Ming Li, Priyadarsi De "Thermoresponsive polymer-protein conjugates prepared by grafting-to and grafting-from *via* RAFT polymerization" Young Polymer Scientist Symposium, IUPAC World Polymer Congress (Macro2010), Glasgow, Scotland, UK, July 2010. *Invited*.
450. **Brent S. Sumerlin** Texas Tech University, Department of Chemistry & Biochemistry, Departmental Seminar, April 2010. *Invited*.
451. **Young Hoon Lim**, Jennifer N. Cambre, Debashish Roy, Brent S. Sumerlin "Biocompatible boronic Acid polymers Prepared by atom transfer Radical polymerization (ATRP)" DFW ACS Meeting-in-Miniature, University of Texas, Dallas, April 2010.
452. Ming Li, Priyadarsi De, **Brent S. Sumerlin** "Functional polymers and polymer-protein conjugates prepared by RAFT and thiol-ene reactions" Light on a Hill conference in honor of Charlie Hoyle, Hattiesburg, MS, April 2010. *Invited*.
453. **Brent S. Sumerlin**, Ming Li, Hongmei Li, Priyadarsi De "Immobilization of RAFT-generated polymers to proteins" ACS National Meeting, San Francisco, CA, March 2010. *Invited contribution to PMSE Young Investigators symposium*.
454. **Brent S. Sumerlin**, Debashish Roy, Jennifer N. Cambre, Andrew P. Vogt "Sugar-responsive aggregates and temperature/redox-responsive hydrogels prepared by block copolymer self-assembly" ACS National Meeting, San Francisco, CA, March 2010. *Invited*.
455. **Brent S. Sumerlin** North Carolina State University, Department of Textile Engineering, Chemistry & Science, Departmental Seminar, March 2010. *Invited*.
456. **Brent S. Sumerlin** Case Western Reserve University, Department of Chemistry, Departmental Seminar, January 2010. *Invited*.
457. **Brent S. Sumerlin** Rutgers University, Newark, Department of Chemistry, Departmental Seminar, December 2009. *Invited*.
458. **Brent S. Sumerlin** University of South Carolina, Department of Chemistry, Organic Division Seminar, November 2009. *Invited*.
459. **Brent S. Sumerlin** Case Western Reserve University, Department of Macromolecular Science Seminar, October 2009. *Invited*.

460. **Brent S. Sumerlin**, Ming Li, Hongmei Li, Priyadarsi De "Making 'smart' proteins even smarter" International Symposium on Stimuli-Responsive Materials, University of Southern Mississippi, Hattiesburg, MS. October 2009. *Plenary*.
461. **Brent S. Sumerlin** Case Western Reserve University, Department of Macromolecular Science Seminar, October 2009. *Invited*.
462. **Brent S. Sumerlin** University of Texas at Arlington, Department of Biomedical Engineering, October 2009. *Invited*.
463. **Brent S. Sumerlin** University of Texas at Austin, Organic Division Seminar, October 2009. *Invited*.
464. Andrew P. Vogt, Debashish Roy, Jennifer N. Cambre, Ming Li, Priyadarsi De, Aman Ullah, **Brent S. Sumerlin** "New stimuli-responsive macromolecules: Polymer-protein bioconjugates and "sweet tooth" micelles" Louisiana State University, Baton Rouge, LA, April 2009.
465. Priyadarsi De, Ming Li, Hongmei Li, **Brent S. Sumerlin** "Responsive polymer-protein conjugates by grafting-from via RAFT polymerization" ACS National Meeting in Washington, DC, August 2009. *Invited*.
466. Priyadarsi De, Ming Li, Debashish Roy, **Brent Sumerlin** "Self-assembly of stimuli-responsive polymer-protein conjugates prepared by RAFT polymerization" ACS National Meeting in Salt Lake City, UT. March 2009. *Invited*.
467. Debashish Roy, **Brent Sumerlin** "Microwave-Assisted RAFT polymerization: Block copolymers in the blink of an eye" ACS National Meeting, Salt Lake City, UT March 2009. *Invited*.
468. **Brent S. Sumerlin** "A New Pill to Swallow: Chemistry on the Cutting Edge of Medicine" Collegium da Vinci, Southern Methodist University. February 2009. *Plenary*.
469. **Brent S. Sumerlin**, Priyadarsi De, Debashish Roy, Jennifer N. Cambre "Smart Polymer Bioconjugates and 'Sweet Tooth' Micelles" Departmental Seminar, University of New South Wales, Sydney, Australia. February 2009. *Invited*.
470. **Brent S. Sumerlin**, Priyadarsi De, Debashish Roy, Jennifer N. Cambre "Materials of the Future-Science of Today" IUPAC conference in Melbourne, Australia. February 2009. *Invited*.
471. **Brent S. Sumerlin**, Priyadarsi De, Debashish Roy, Jennifer N. Cambre "Smart Polymer Bioconjugates and 'Sweet Tooth' Micelles" Zing Polymer Chemistry Conference. February 2009. *Plenary*.
472. **Brent S. Sumerlin** Oklahoma State University, Departmental Seminar, January 2009. *Invited*.
473. **Brent S. Sumerlin**, Jennifer N. Cambre, Debashish Roy "Well-Defined and Biologically Relevant Block Copolymer Nanostructures" Southeast Regional Meeting of the ACS, Nashville, TN, November 2008. *Invited*.
474. **Brent S. Sumerlin**, Debashish Roy, Jennifer Cambre "'Sweet tooth' micelles and other sugar-responsive organoboron block copolymer assemblies" International Symposium on Stimuli-Responsive Materials, University of Southern Mississippi, Hattiesburg, MS. October 2008. *Plenary*.
475. **Brent S. Sumerlin** "Responsive block copolymer micelles functionalized with biologically-relevant ligands" ACS National Meeting, Philadelphia, PA, August 2008. *Invited*.

476. **Brent S. Sumerlin**, Priyadarsi De, Ming Li, Sudershan R. Gondi "Polymer-protein bioconjugates via grafting-from and grafting-to with RAFT-generated polymers" ACS National Meeting, Philadelphia, PA, August 2008. *Invited*.
477. **Brent S. Sumerlin**, Debashish Roy, Jennifer Cambre "'Sweet tooth' micelles and other sugar-responsive organoboron block copolymer assemblies" ACS National Meeting, Philadelphia, PA, August 2008. *Invited*.
478. **Brent S. Sumerlin**, Debashish Roy, Jennifer N. Cambre "New stimuli-responsive macromolecules—smart hyperbranches, bioconjugates, and "sweet tooth" micelles" Northeast Regional Meeting of the American Chemical Society, Burlington, VT, July 2008. *Invited*.
479. **Brent S. Sumerlin** University of California, Los Angeles Departmental Seminar. April 2008. *Invited*.
480. **Priyadarsi De**, Sudershan R. Gondi, Brent S. Sumerlin "Folate-conjugated responsive polymeric micelles: synthesis by RAFT polymerization and Click chemistry" ACS National Meeting, New Orleans, LA, April 2008.
481. Priyadarsi De, Ming Li, Sudershan R. Gondi, **Brent S. Sumerlin** "Polymer-protein bioconjugates via grafting-from by RAFT polymerization and azide-alkyne click chemistry" ACS National Meeting, New Orleans, LA, April 2008. *Invited*.
482. **Ming Li**, Priyadarsi De, Sudershan R. Gondi, Brent S. Sumerlin "Responsive polymer-protein bioconjugates prepared by RAFT polymerization and grafting-to via click chemistry" ACS National Meeting, New Orleans, LA, April 2008.
483. **Andrew P. Vogt**, Brent S. Sumerlin "Telechelic macromolecules via RAFT polymerization and click chemistry" ACS National Meeting, New Orleans, LA, April 2008.
484. **Ming Li**, Priyadarsi De, Sudershan R. Gondi, Brent S. Sumerlin "Versatile end group modification strategy for RAFT-generated polymers" ACS National Meeting, New Orleans, LA, April 2008.
485. **Andrew P. Vogt**, Brent S. Sumerlin "Thermoresponsive core-shell macromolecules prepared by RAFT polymerization" ACS National Meeting, New Orleans, LA, April 2008.
486. **Jennifer N. Cambre**, Debashish Roy, Sudershan R. Gondi, Brent S. Sumerlin "Boronic acid block copolymers prepared by RAFT polymerization" ACS National Meeting, New Orleans, LA, April 2008.
487. **Debashish Roy**, Jennifer N. Cambre, Brent S. Sumerlin "Controlled radical polymerization of free unprotected boronic acid monomers by RAFT" ACS National Meeting, New Orleans, LA, April 2008.
488. Priyadarsi De, Ming Li, Sudershan R. Gondi, **Brent S. Sumerlin** "Responsive polymer-protein bioconjugates by grafting-from via RAFT with the R-group approach" ACS National Meeting, New Orleans, LA, April 2008. *Invited*.
489. **Brent S. Sumerlin** Southeastern Oklahoma State University, Departmental Seminar. February 2008. *Invited*.
490. **Brent S. Sumerlin** Colorado School of Mines, Departmental Seminar. November 2007. *Invited*.
491. **Brent S. Sumerlin**, University of Southern Mississippi, International Symposium on Stimuli-Responsive Materials. October 2007. *Plenary*.

492. **Brent S. Sumerlin** Southern Methodist University, Department of Biological Sciences, Departmental Seminar. October 2007. *Invited*.
493. **Brent S. Sumerlin** Texas Lutheran University, Departmental Seminar. October 2007. *Invited*.
494. **Brent S. Sumerlin** Baylor University, Departmental Seminar. October 2007. *Invited*.
495. **Brent S. Sumerlin** North Carolina State University. September 2007. *Invited*.
496. **Brent S. Sumerlin**, Andrew P. Vogt "Tuning the Stimuli-Response of Hyperbranched Polymers Prepared by RAFT" ACS National Meeting, Boston, MA, April 2007. *Invited*.
497. **Brent S. Sumerlin**, Andrew P. Vogt, Sudershan R. Gondi, Gordon Research Conference – Polymers (East), South Hadley, MA, June 2007. Poster.
498. **Brent S. Sumerlin** City University of New York, College of Staten Island, Departmental Seminar. May 2007. *Invited*.
499. **Brent S. Sumerlin** University of Texas at Dallas, Departmental Seminar. February 2007. *Invited*.
500. **Brent S. Sumerlin** University of Tennessee, Departmental Seminar. February 2007. *Invited*.
501. **Brent S. Sumerlin** Oak Ridge National Laboratory. February 2007. *Invited*.
502. **Brent S. Sumerlin**, Sudershan R. Gondi, Andrew P. Vogt "Orthogonal End Group Reactivity of Macromolecules Prepared by RAFT Polymerization" Gordon Research Conference – Polymers (West), Ventura, CA, January 2007.
503. **Brent S. Sumerlin** University of Texas, San Antonio, Departmental Seminar. November 2006. *Invited*.
504. **Brent S. Sumerlin**, Sudershan R. Gondi, Andrew P. Vogt "Orthogonal End Group Reactivity of Macromolecules Prepared by RAFT Polymerization" Southwestern Regional Meeting of the American Chemical Society, Houston, TX, October 2006. *Invited*.
505. **Brent S. Sumerlin** "Controlled Radical Polymerization and Click Chemistry: An Efficient Route to Macromonomers and Other Telechelics" 19th Rocky Mountain Regional Meeting of the American Chemical Society, Tucson, AZ, October 2006. *Invited*.
506. **Brent S. Sumerlin** Texas Christian University, Fort Worth, TX, Departmental Seminar. October 2006. *Invited*.
507. **Brent S. Sumerlin** Stephen F. Austin State University, Nacogdoches, TX, Departmental Seminar. October 2006. *Invited*.
508. **Brent S. Sumerlin**, Andrew P. Vogt "Macromonomer Synthesis via ATRP and Click Chemistry" ACS National Meeting, San Francisco, CA, September 2006.
509. **Patricia L. Golas** Nicolay V. Tsarevsky Brent S. Sumerlin, Krzysztof Matyjaszewski "Tuning the efficiency of click reactions using polymers prepared by atom transfer radical polymerization" ACS National Meeting, San Francisco, CA, September 2006.
510. **Brent S. Sumerlin** "Controlled Radical Polymerization and Click Chemistry: An Efficient Route to Macromonomers and Other Telechelics" Macro Group UK International Conference on Polymer Synthesis, Coventry, U.K., July 2006. *Invited*.
511. **Brent S. Sumerlin** "Controlled Radical Polymerization as a Means to Prepare Novel Functional Materials" DFW ACS local section meeting, Dallas, TX, June 2006. *Invited*.

512. **Jamie R. Boyce**, Frank C. Sun, Sergei S. Sheiko, Benjamin W. Maynor, Joseph M. DeSimone, Brent Sumerlin, Krzysztof Matyjaszewski "Replicating fluid morphologies: from single molecules to macroscopic drops" ACS National Meeting, Atlanta, GA, March 2006.
513. **Krzysztof Matyjaszewski**, Hyung-il Lee, Shigeki Ohno, Joanna Pietrasik, Sergei Sheiko, Brent Sumerlin, Nicolay V. Tsarevsky "Molecular brushes with variable composition and topology by ATRP. Synthesis and properties" ACS National Meeting, Atlanta, GA, March 2006.
514. **Brent S. Sumerlin** Texas State University, San Marcos, TX, Departmental Seminar, November 2005. *Invited*.
515. **Brent S. Sumerlin**, Joanna Pietrasik, Krzysztof Matyjaszewski "Temperature-Responsive Water-Soluble Molecular Brushes Prepared by Atom Transfer Radical Polymerization" ACS National Meeting, Washington, D.C., August 2005. *Invited*.
516. **Robert E. Richard**, Marlene Schwarz, Shirang Ranade, A. Ken Chan, Krzysztof Matyjaszewski, Brent S. Sumerlin "Evaluation of Acrylate-Based Block Copolymers Prepared by Atom Transfer Radical Polymerization as Matrices for Paclitaxel Delivery from Coronary Stents" ACS National Meeting, Washington, D.C., August 2005.
517. **Nicolay V. Tsarevsky**, Brent S. Sumerlin, Patricia L. Golas, Krzysztof Matyjaszewski "'Click' Coupling of Azide- and Alkyne-functionalized Well-Defined Polymers Prepared by Atom Transfer Radical Polymerization" ACS National Meeting, Washington, D.C., August 2005.
518. **Brent S. Sumerlin**, Nicolay V. Tsarevsky, Guillaume Louche, Haifeng Gao, Krzysztof Matyjaszewski "Click Functionalization of Well-Defined (Co)Polymers Prepared by Atom Transfer Radical Polymerization" ACS National Meeting, Washington, D.C., August 2005. *Invited*.
519. **Brent S. Sumerlin**, Nicolay V. Tsarevsky, Guillaume Louche, Haifeng Gao, Krzysztof Matyjaszewski "Preparation of Well-Defined Functional Polymers by ATRP and Click Chemistry" Gordon Research Conference, Polymer (East), Mt. Holyoke College, June 2005.
520. **Charles W. Scales**, Leslie J. Myrick, Brent Sumerlin, Andrew B. Lowe, and Charles L. McCormick "Synthesis of terminally functionalized, (Co)polymers via reversible addition fragmentation chain transfer (RAFT) and subsequent immobilization to solid surfaces with potential biosensor applications" ACS National Meeting, Anaheim, March 2004.
521. **Brent S. Sumerlin**, Krzysztof Matyjaszewski "Control of Molecular Structure in Functional Brushes" NATO Advanced Studies Institute Macromolecules 2003, Pisa, Italy, October 2003.
522. **Brent S. Sumerlin**, Paul A. Stroud, Andrew B. Lowe, Charles L. McCormick "Modification of Gold Films with Water-Soluble Copolymers Prepared via Aqueous RAFT" 225th ACS National Meeting, New Orleans, April 2003.
523. **Charles L. McCormick**, **Brent S. Sumerlin** "RAFT Polymerizations in Homogeneous Aqueous Media" 224th ACS National Meeting, Boston, August 2002.
524. **David B. Thomas**, Pierre Hennaux, Michael S. Donovan, Brent S. Sumerlin, Anthony Convertine, Charles L. McCormick "New Dithioesters for the RAFT Polymerization of Acrylamido Monomers" 224th ACS National Meeting, Boston, August 2002.
525. **Brent S. Sumerlin**, Michael S. Donovan, Yoshiro Mitsukami, Andrew B. Lowe, Charles L. McCormick "The Synthesis of Well-Defined Water-Soluble (Co)polymers for the Stabilization of Gold Nanoparticles" 224th ACS National Meeting, Boston, August 2002.
526. **Charles L. McCormick**, Andrew B. Lowe, Brent S. Sumerlin "Amphiphilic Block Copolymers Structurally Tailored via RAFT for Stimuli-Responsiveness in Aqueous Media" Macro Group UK International Conference on Polymer Synthesis, Coventry, U.K., 2002.

527. **Brent S. Sumerlin**, Michael S. Donovan, Andrew B. Lowe, Charles L. McCormick "The Controlled Radical (Co)Polymerization Of *N,N*-Dimethylacrylamide and *N,N*-Dimethylvinylbenzylammonium Chloride in Aqueous Media via RAFT" Robert M. Hearin Support Foundation Symposium – Polymer Science: New Century Frontiers, April 2002.
528. **Brent S. Sumerlin**, Yoshiro Mitsukami, Andrew B. Lowe, Charles L. McCormick "Synthesis of Water-Soluble Styrenic Homopolymers in Aqueous Media via RAFT" 4th National ACS Graduate Research Polymer Conference, University of Southern Mississippi, Hattiesburg, MS, June 2000.
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Teaching

Courses Taught

F = Fall semester, S = Spring semester

CHM 6390/6391. Organic Chemistry Seminar Presentation (UF) (F2016, S2017, F2017, S2018, F2018, S2019, F2022, S2023, F2023, S2024, F2025, S2026)

Designed to develop and improve presentation skills of graduate students in organic chemistry, focusing on current research and relevant literature.

CHM 2210. Organic Chemistry I (UF) (S2013, S2014, F2014, F2015, S2017, S2018, S2019, F2020, F2021, F2022, F2025)

The first half of the CHM 2210/2211 sequence intended for majors and pre-professional students. A study of the structures, syntheses and reactions of organic compounds.

CHM 5275. Organic Chemistry of Polymers (UF) (F2014, F2019)

Classification of polymerization types and mechanisms from a mechanistic organic point of view. The structure of synthetic and natural polymers and polyelectrolytes. Reaction of polymers. Practical synthetic methods of polymer preparation.

CHM 6271. The Chemistry of High Polymers (UF) (S2020)

Fundamental polymer chemistry, with emphasis on the mechanisms of polymerization reactions and the relationship of physical properties to chemical constitution.

CHM 4272. Organic Chemistry of Polymers (UF) (S2015, S2016, S2020, S2021, S2022, S2024, S2025, S2026)

Classification of polymerization types and mechanisms from a mechanistic organic point of view. The structure of synthetic and natural polymers and polyelectrolytes. Reaction of polymers. Practical synthetic methods of polymer preparation.

CHEM 3371. Organic Chemistry (SMU) (F2007, F2008, F2009, F2010, F2011)

Organic I. Designed to satisfy the requirements of the chemistry major and health-related professions student. The first term deals primarily with aliphatic chemistry with special emphasis on stereochemistry. The second term emphasizes aromatic substances and the chemistry of biologically relevant molecules.

CHEM 6118. Overview of Materials Chemistry (SMU) (S2005, F2006, S2008, F2009, F2010, F2011)

Surveys the synthesis, characterization, and applications of ceramics and glasses, polymers, metals, nanomaterials, semiconductors and conductors, and biomaterials.

CHEM 5333. Introduction to Polymer Chemistry (SMU) (S2010, S2011, S2012)

Provides basic information on the synthesis, physical chemistry, and solution properties of high molecular weight molecules. Plastics, manufacturing, and fabrication of polymers are discussed.

CHEM 6110. Chemical Communications (SMU) (F2011)

Other teaching/education activities

- *Teaching Excellence Academy* Certificate, UF (2025)
- *Teaching Technology Grant* to institute podcasting and video solutions manuals for organic chemistry (2009)
- Invited participant in Organic Chemistry Focus Group at McGraw-Hill Higher Education, Dubuque, IA (2010)

Dissertation, Research, & Postgraduate-Scholar Advising

Graduate Advising (*indicates degree completion)

*Jawaher Al-furhood (2012-2016, PhD)
*Patricia (Bachler) Calvo (2013-2016, PhD), co-advised with K. Wagener
*Abhijeet Bapat (2008-2012, PhD)
Sagnik Bhattacharya (2025-)
Lauren Bishop (2021-)
Jared Bowman (2019-)
S. Connor Brunson (2025-)
*William Brooks (2010-2015, PhD)
Gerald Camarella (2024-)
*Jennifer Cambre (2007-2011, PhD)
*Jessica Cash (2011-2017, PhD)
*R. Nicholas Carmean (2013-2018, PhD)
Won Joon Choi (2023-)
Noah Cyr (2021-)
*Yuqiong Dai (2014-2019, PhD)
*Cullen Davidson (2018-2023)
*Christopher Deng (2012-2017, PhD)
*Lily Diodatti (2020-2023)
*Daniel Dobbins (2013-2019, PhD)
Cabell Eades (2021-)
*Charles Easterling (2013-2019, PhD), co-advised with Gail Fanucci
*C. Adrian Figg (2013-2018, PhD)
*John Garrison (2017-2022)
Graham Gilchrist (2023-)
*Sofia Goodrich (2017-2023)
Seungyoon Han (2024-)
*Megan Hill (2012-2017)
*Rhys Hughes (2021-2026)
Serena Hyder (2025-)
Rohan Jena (2024-)
*Christopher Kabb (2013-2018, PhD)
*Debabrata Konar (2018-2024)
*Angie Korpusik (2018-2023)
*Tomohiro Kubo (2013-2018, PhD)
Thi Le (2023-)
*Jacob Lessard (2016-2021, PhD)
*Ming Li (2006-2010, PhD)
*Hongmei Li (2008 - 2010, PhD)
*Emeline Lochmaier (2017-2018, MS)
*Megan Lott (2021-2026)
Tanmoy Maity (2023-)
Lauren Mann (2023-)
Minu Mathew (2022-)
*Swagata Mondal (2018-2024)
*Soma Mukherjee (2010-2015, PhD)
*Rebecca Olson (2016-2021, PhD)

Gunzi Otgonjargal (2023-)
 *Digvijayee Pal (2017-2022, PhD)
 Andrei Potapenko (2024-)
 Austin Reed (2024-)
 *Brooke Sabin (2020-2021, MS)
 Blanch Khouri Sader (2021-)
 *Georg Scheutz (2015-2021, PhD)
 Ashutosh Shirodkar (2025-)
 *Michael Sims (2014-2019, PhD)
 *Kevin Stewart (2019-2024, PhD)
 *Hao Sun (2011-2017, PhD)
 Ariana Tamura (2022-)
 *Bryan Tucker (2012-2017, PhD)
 *Andrew Vogt (2005-2009, PhD)
 *Junxia Wang (2019-2021, MS)
 *Alexander Wong (2020-2024)
 *James Young (2019-2024)

Undergraduate Advising

Lucas Aburaya (2023-)
 Lily Alperstein (2020-2022)
 Jacqueline Anatot (2022-2024)
 Kalkidan Asmelash (2014, REU student from University Paul Sabatier, Toulouse, France)
 Leah Baker (2024-)
 Troy Becker (2015-2016)
 Danyella Cabrera (2023-2025)
 Matthew Cain (2006)
 Alexander Cantor (2021-2023)
 Lily Carlson (2025-)
 Anna Carter (2022-2023)
 Zane Carter (2025-)
 Jake Chavis (2025-)
 Ryan Clark (2025-)
 Michelle Clinton (2010)
 Guilhem Coste
 McKenzie Coughlin (2015)
 Bryan Cowley (2025-)
 Juanita Echeverry (2023-2025)
 Justine Elgoyhen (2017, REU student from University of Pierre and Marie Curie, France)
 Cyrus Feizpour (2011-2012)
 Carl Forsthoefel (2013-2014)
 L. Felipe Garcia (2017-2018)
 Stephen Getchell (2012-2014)
 Sara Gingrich (2007-2010)
 Griffin Golde (2024-2025)
 Howard He (2009)
 Megan Hill (2010, REU Student from Cal Poly SLO)
 Jason Hillman (2022-)
 Young Hoon Lim (2008-2011)
 Diana Ishaev (2024-)
 Payson Keown (2024-)
 Megan Kypreos (2009-2010)
 Nathan LaBranche (2024-)
 Angelina LaVerdi (2025-)
 Virginia Lane (2014)
 Julie Lecoq (2013, REU student from University Paul Sabatier, Toulouse, France)
 Courtney Ligon (2012-2013)
 Elliot MacKrell (2012-2015)
 Charles L. McCormick, IV (2022)
 Noah Menard (2011-2012)

Florencia Merlino (2023-)
 Jack Moerschel (2022-2024)
 Jacob Mirsky (2025-)
 Uri Ngwa (2025-)
 Zachary Orr (2014-2015)
 Jieun Park (2009)
 Mansi Patel (2024-)
 Johann Rapp (2018-2019)
 Jonathan Rowell (2018-2019)
 Madison Ross (2021-2024)
 John Rynk (2019-2021, 2022-2023)
 Jose Sanchez (2016-2018)
 Sophia Santiago (2025-)
 Charles Sawyer (2025-)
 Kai Schulte (2023)
 Brett Shore (2014)
 G. Grey Smith (2025-)
 Jason Smith (2017-2018)
 Kyle Stiles-Ryan (2025-)
 Nicholas Swanson (2015-2016)
 Jeremy Swartz (2015-2018)
 Maxym Tansky (2017-2018)
 Victoria Thompson (2022-2025)
 Philip Todd (2017, REU Student from UNC)
 Myomi Tse (2006-2007)
 Andrew Turner (2012-2016)
 Kimberly Varney (2012, REU Student from Cal Poly SLO)
 Taylor Vaughan (2022, REU Student from Cal Poly SLO)
 Rachel Wechsler (2017-2018)
 Allison Weinstock (2018-2019)
 Isabella Zastrow (2023-2025)
 Yuquan Zhang (2025-)

Post Doctoral Advising

Dr. Mingsheng Chen (2013-2015)
 Dr. Sudershan Reddy Gondi (2006-2008)
 Dr. Priyadarsi De (2007-2008)
 Dr. Sunirmal Pal (2013-2017)
 Dr. Sangwoo Park (2016-2018)
 Dr. Julia Rho (2019-2021)
 Dr. Debashish Roy (2007-2010)
 Dr. Shauntrece Hardrict (co-advised with Prof. Alan Tonelli (NCSU), 2010-2011)
 Dr. Zhengguang Heng (2019-2020)
 Dr. Emmanuelle Schué (2020-2023)
 Dr. Kaden Stevens (2023-2025)
 Dr. Lucca Trachsel (2021-2024)
 Dr. Csilla Gyorgy (2023)
 Dr. Sean Gitter (2024-)

Visiting Scholars Hosted

Lundy Gaelle Mondy (2025, Sorbonne University, France)
 Dr. Zhengying Liu (2013-2014, Sichuan University, Chengdu, China)
 Qijing Chen (2014-2015, Shanghai University, China)
 Aman Ullah (2009, Università degli Studi di Genova, Italy)
 Emanuele Grigolon (2023, University of Padua, Italy)
 Assoc. Prof. Ahmet Gültek (2011, Inonu University, Turkey)
 Asst. Prof. Erdal Oğuzdoğan (2013-2014, Pamukkale University, Turkey)
 Alexandre Simula (2014, University of Warwick, UK)
 Asst. Prof. Ersen Turaç (2013-2014, Nigde University, Turkey)
 Gertjan Vancoillie (2015, Ghent University, Belgium)

Dr. Fu-Sheng Wang (2019, National Tsing Hua University, Taiwan)
Prof. Sabrina Carroccio (2018, University of Catania, Italy)
Martina Ussia (2018, 2019, University of Catania, Italy)
Nicola Migliore (2018-2019, University of Groningen, The Netherlands)
Yening Xia (2019-2020, South China University of Technology, China)
Prof. Hyung-il Lee (2021-2022, Ulsan University, South Korea)
Eunji Kim (2021-2022, KAIST, South Korea)
Prof. Jeung Gon Kim (2021-2022, Ulsan University, South Korea)
Toshifumi Kondo (2022-2023, Toagosei, Inc.)
Krisada Auepatta-Aumrung (2023-2024, Vidyasirimedhi Institute of Science and Technology, Thailand)
Prof. Efsan Catiker, Abant Izzet Baysal University, Turkey (2024-2025)
Prof. Gangadhar J. Sanjayan, CSIR-NCL, Pune, India – Fullbright Scholar (2025)

Community College Student Advising

Florance Fishman (2009-2010)

High School Student Advising

Mallika Bhatta (2015)
Mitu Bhattatiry (2008-2010)
Mingrui Li (2016)
An Qi (2006)
Quang Le (2006)
Hannah Lee (2025)
Tomas Castillo (2023)
Tuhina Parida (2023)
Francesca Rodriguez (2025)
Claire Su (2023)
James Lovely (2023)
Nathan Wei (2022-2024)
Deepak Viswalingam (2024)
Gyanna Gao (2024)
Gillian Giordano (2024)