

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG DISPLAY CO., LTD.

Petitioner,

v.

PICTIVA DISPLAYS INTERNATIONAL LTD.,

Patent Owner.

Case No. IPR2026-00129

Patent 12,158,250

DECLARATION OF JUNE ANN MUNFORD

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I. Introduction

I, June Ann Munford, declare as follows:

1. I have been retained as a consultant on behalf of Samsung Display Co., Ltd. (“Petitioner”), who I understand is the petitioner in the present proceeding. I have been asked to consider whether Exhibit 1011, “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al., has been publicly available as of August 29, 2008, and as of December 2, 2008, through this day.

2. To the best of my knowledge, I have no financial interest in Petitioner. I have been informed that a company known as Pictiva Displays International Ltd. (“Pictiva” or “Patent Owner”) purports to own U.S. Patent No. 12,158,250 (the ’250 patent). To the best of my knowledge, I have no financial interest in Pictiva, and, to the best of my recollection, I have had no contact with Pictiva or the named inventors of the ’250 patent, Ulrich Kastner-Jung, Markus Klein, Stan Maes, Romana Sigl, Annette Haid, Stephan Lintner, Julian Herget, and Gregor Matjan. To the best of my knowledge, I similarly have no financial interest in the ’250 patent. To the extent any mutual funds or other investments that I own have a financial interest in the Petitioner, the Patent Owner, or the ’250 patent, I am not aware of, nor do I have control over, any financial interest that would affect or bias my judgment.

3. I am being compensated at my standard consulting rate for my time. My compensation is in no way contingent on the results of these or any other proceedings relating to the '250 patent.

II. Background and Qualifications

4. I earned a Master of Library and Information Science (MLIS) from the University of Wisconsin-Milwaukee in 2009. I have over ten years of experience in the library/information science field. Beginning in 2004, I have served in various positions in the public library sector including Assistant Librarian, Youth Services Librarian, and Library Director. I have attached my Curriculum Vitae as Appendix CV.

5. During my career in the library profession, I have been responsible for materials acquisition for multiple libraries. In that position, I have cataloged, purchased, and processed incoming library works. That includes purchasing materials directly from vendors, recording publishing data from the material in question, creating detailed material records for library catalogs and physically preparing that material for circulation. In addition to my experience in acquisitions, I was also responsible for analyzing large collections of library materials, tailoring library records for optimal catalog search performance and creating lending agreements between libraries during my time as a Library Director.

6. I am fully familiar with the catalog record creation process in the library sector. In preparing a material for public availability, a library catalog record describing that material would be created. These records are typically written in Machine Readable Catalog (herein referred to as “MARC”) code and contain information such as a physical description of the material, metadata from the material’s publisher, and date of library acquisition.

7. I am familiar with the Internet Archive, a digital library formally certified by the State of California as a public library. Among other services that the Internet Archive makes available to the general public is the Wayback Machine, an online archive. The Internet Archive’s Wayback Machine service archives webpages as of a certain capture date to track changes in the web over time. The Internet Archive has been in operation as a nonprofit library since 1996 and has hosted the Wayback Machine service since its inception in 2001. During my time as a librarian, I frequently used the Internet Archive’s Wayback Machine for research and instruction purposes. This includes teaching instructional classes on using the Wayback Machine to library patrons and using the Wayback Machine to research reference inquiries that require hard-to-find online resources. I consider the Internet Archive’s recordkeeping to be as rigorous and detailed as other formal library recordkeeping practices such as MARC records.

8. Visitors to the Wayback Machine can search the Internet Archive by keyword or a website URL. If archived records for a URL or the keywords are available, the visitor will be presented with a display of available dates. The visitor may select one of those dates and be taken to the collection of web captures associated with the specific web crawl from a specific point in time. This archived data made viewable by the Wayback Machine is obtained using web archiving software that automatically stores copies of files available via the Internet, with each file preserved as it existed at a particular point in time. The Internet Archive assigns a URL to all archived files within the Wayback Machine in the following format: `http://web.archive.org/web/[Year in yyyy][Month in mm][Day in dd][Time code in hh:mm:ss]/[Archived URL]`. This is known as an “extended URL” format. For example, the Internet Archive extended URL `http://web.archive.org/web/19970126045828/http://www.archive.org/` denotes the URL for the record of the Internet Archive home page archived on January 26, 1997 at 4:58 a.m. and 28 seconds (1997/01/26 at 04:58:28). Thus, an archived webpage file in the Wayback Machine represents the content of the webpage at the date and time it was captured and archived by the web crawler of the Wayback Machine. Because the Wayback Machine does not crawl every URL in the Internet at every second, the absence of a webpage archive in the Wayback Machine does not mean

that the webpage did not exist. The Wayback Machine does not have archived webpages for every URL on every day.

9. Captures of Internet Archive Wayback Machine records created for this declaration include a collection of all time captures associated with a web page as well as a single capture from that collection associated with a singular date and time. The collection of records associated with a given web page is presented as a calendar by the Wayback Machine, while the single capture is represented by a web page as displayed on the date and time of capture. Due to the records keeping practices of the Wayback Machine, a collection of captures may be displayed at a slightly different URL from a singular record found within that collection. To confirm the two URLs are related, the date and time present on a singular web page capture can be found on the matching calendar record.

III. Exhibit 1011: The Ma Article

10. As I explained above, Exhibit 1011 is entitled “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. The hardcopy of Exhibit 1011 is reported as published in December 2008 in Synthetic Metals, a journal published by Elsevier. Page 1 of Exhibit 1011 indicates “Organic light-emitting diodes based on new n-doped electron transport layer” was received on March 11, 2008, accepted on May 14, 2008, and made available to the public online as of August 29, 2008. I have further confirmed that Exhibit 1011 is available

as of the date of my declaration at
<https://www.sciencedirect.com/science/article/abs/pii/S0379677908001653>.

IV. Opinions Relating to Date of Availability of Exhibit 1011 and Searchability of Synthetic Metals

11. In my opinion, Exhibit 1011, with its present substantive content, was made available online as of the date provided on the front of the article: August 29, 2008, via the Elsevier ScienceDirect website, and has been available to this day. In addition, Exhibit 1011, with its present substantive content, was available online on December 2, 2008, via the Elsevier ScienceDirect website, and has been available to this day.

12. In my opinion, a person with interest in the subject matter of Exhibit 1011 could have used Elsevier's ScienceDirect website, and through use of simple search functions, could have located Exhibit 1011 as of its date of online publication on August 29, 2008, and also could have located Exhibit 1011 on December 2, 2008, and Exhibit 1011 has remained searchable and locatable to this day.

13. As I discuss below, Elsevier is an established publisher of academic journals, textbooks, reference material and other documents related to scientific, technical and medical professions, including Synthetic Metals. Elsevier has historically published material in paper editions, but is also well known for its digital services platforms. These services include the e-book platform ScienceDirect, the

indexing service Scopus and the organization of several academic conferences per year. Indeed, by May 2008, Elsevier was described as one of

the world's largest provider of science and health information. It publishes about 250'000 articles per year in 2000 journals. Its archives contain 7 million past publications. Total yearly downloads amount to 240 million . . . Each year, the company publishes the original work of more than 500,000 authors in 2,000 journals, 17,000 books, 18 new journals and 1,900 new books

as shown in Appendix 1 hereto. This appendix includes screen captures of the Internet Archive Wayback Machine entries describing Elsevier around May 2008, including footnotes 1 and 2 of the Elsevier Wikipedia page citing Elsevier's webpages at the time. I secured these screen captures myself. I have been familiar with Elsevier as a publisher in my experience as a librarian, using Elsevier publications for reference inquiries and purchasing Elsevier materials for library collections, including the 2008 time period.

14. I discuss the reasoning behind my opinions below.

A. Documentation Relating to Date of Availability of Exhibit 1011

15. As I discuss above, Exhibit 1011 indicates on its face that it was available online as of August 29, 2008. There is no indication on the face of Exhibit 1011 that there were any substantive changes to the Ma text between August 29, 2008 and its publication in hard copy in December 2008. Based on my review of a

number of different documents, as well as my own experience, in my opinion, Exhibit 1011 was made available to the public on August 29, 2008.

16. I have reviewed Exhibit 1006, which is entitled “Declaration of Rachel Garland.” Exhibit 1006 bears the marks of Elsevier, which I know to be a well-regarded publisher of a number of scientific journals. In this declaration, Dr. Garland states that “J. Ma, et. Al., ‘Organic light-emitting diodes based on new n-doped electron transport layer’ was published in Synthetic Metals, Vol. 158, Issues 21-24 and was available online on August 29, 2008.” Exhibit 1006 at paragraph 11. Dr. Garland’s testimony comports with my understanding and experience that articles published by Elsevier are often first published online, and then published in a physical journal. Dr. Garland also states that the “article and abstract from Science Direct shows the date of publication for the first online version,” which date does not change once determined. Exhibit 1006 at paragraph 10. Dr. Garland’s testimony comports with my understanding and experience that the “available online” date is the actual date that Elsevier first published the specific article online. It is also my understanding and experience that Elsevier had published articles online at the time (in 2008), so that interested researchers could review and also search for the online articles even before hardcopies were printed.

17. It is further my experience that in cases where Elsevier journal articles differ in substance from the first online published version, they are accompanied by

a notation as to what has changed from the online article. For example, I attach as Appendix 2 an article with first named author Barry P. Rand, published in 2009 in another Elsevier journal, Organic Electronics. That article notes that a “revised form” was received on April 20, 2009. Appendix 2 at p.1.¹

18. As another example, I attach as Appendix 3 an article with first named author Elena N. Konyushenko, published in 2008 in Synthetic Metals. That article notes that a “revised form” was received on April 21, 2008. Appendix 3 at p.1. I also attach Appendix 4, which is a screen capture of a webpage entitled Volume 158, Issues 21-24 (December 2008) as hosted on the ScienceDirect website. I secured this screen capture myself from <https://www.sciencedirect.com/journal/synthetic-metals/vol/158/issue/21>. This page contains the full table of contents included in the December 2008 issue of Synthetic Metals, and shows that Exhibit 1011 (“Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al.) and Appendix 3 (“Polymerization of Aniline in Ice” by Elena N. Konyushenko) were published in the same issue of Synthetic Metals. Appendix 4 at pp.2, 4.

19. Exhibit 1011 does not contain any notation that the article was revised or has been changed from its first online publication date of August 29, 2008. I have also searched ScienceDirect and did not find any notice or other information

¹ In this declaration, a page number of an appendix refers to the page number of the appendix excluding its cover page.

indicating that Exhibit 1011 has been revised in substance since its online publication date of August 29, 2008, up to the present date. Therefore, my conclusion is that the article that is currently available, and was included in the physical journal, is substantively the same as what was available on August 29, 2008.

20. I have also used the Internet Archive Wayback Machine to ascertain what pages relating to Synthetic Metals have been archived in the 2008-2009 time period. Attached hereto as Appendix 5 (“Articles in Press Listing”) is a screen capture of the Internet Archive Wayback Machine entry for the articles in Synthetic Metals from December 2, 2008. I secured this screen capture myself from https://web.archive.org/web/20081202021745/http://www.sciencedirect.com/science?_ob=PublicationURL&_tokey=%23TOC%235611%239999%23999999999%23999999%23FLA%23&_cdi=5611&_pubType=J&view=c&_auth=y&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=204d58226bba263fd246b4f65856270f.

21. The Articles in Press Listing contains an Elsevier ScienceDirect webpage describing the contents of the Synthetic Metals journal as of December 2, 2008. Appendix 5 at p.2. “Articles in Press” are described as “peer reviewed accepted articles to be published in this journal.” *Id.* at p.7. Further, “[t]he ‘Article in Press’ version . . . will appear in the associated published journal issue.” *Id.* When published, “[t]he date [the Article in Press version] was first made available online

will be carried over,” and despite not yet being published in paper form, the Article in Press version “can already be cited using the year of online availability” *Id.*

22. An entry for “Organic light-emitting diodes based on new n-doped electron transport layer” (which is the same title as Exhibit 1011) can be found on page 4 of the Articles in Press Listing. Appendix 5 at p.5 (listed as #65). Consistent with my understanding and experience that ScienceDirect has allowed access to the full text of an online article in press by hyperlinking the title to its text, the title “Organic light-emitting diodes based on new n-doped electron transport layer” in Appendix 5 was hyperlinked. *Id.* This entry indicates the article was first made available to the public via the ScienceDirect website as of “29 August, 2008” (the same date that appears on Exhibit 1011) and features a link titled “Purchase PDF” which allows users to purchase a PDF copy of the article. *Id.* As this page offers users the ability to purchase the article directly and provides a link to the article, it is my determination that the full text of the article “Organic light-emitting diodes based on new n-doped electron transport layer” was available to the public as of August 29, 2008, and on December 2, 2008.

23. The entry for “Organic light-emitting diodes based on new n-doped electron transport layer” further indicates that it is “In Press, Corrected Proof,” Appendix 5 at p.5, which, according to the journal, means that it is a published “article containing the author’s corrections” that “may, or may not yet have specific

issue and page numbers assigned,” *id.* at p.7. In other words, the difference between the article as published in hard copy and the article that is “In Press, Corrected Proof” is the specific issue number and specific page numbers.

24. I further considered how Appendix 5 illustrates when articles that were reflected as being available online were made available in the hard copy journal. The Articles in Press Listing additionally reflects on the top of its list, an entry for an article entitled “Isophorone-based analogues with A- π -D- π -A structure for red organic light emitting devices,” which is identified as having been made “[a]vailable online 28 November, 2008,” which is a few days earlier than December 2, 2008, the date of the Appendix 5 screen capture. Appendix 5 at p.2.

25. I have also reviewed the hard copy version of “Isophorone-based analogues with A- π -D- π -A structure for red organic light emitting devices,” discussed above. Appendix 6. Attached hereto is Appendix 6, an article entitled “Isophorone-based analogues with A- π -D- π -A structure for red organic light emitting devices” that appeared at pages 401-405 in the March 2009 issue of Synthetic Metals. I downloaded this copy myself from <https://www.sciencedirect.com/science/article/abs/pii/S0379677908003615>.

26. Page 1 of Appendix 6 indicates “Isophorone-based analogues with A- π -D- π -A structure for red organic light emitting devices” was first made available to the public online as of November 28, 2008, which is consistent with its

corresponding entry in the Articles in Press Listing (Appendix 5), as discussed above. Appendix 6 at p.1. Moreover, it was published in hard copy in the journal available about 4 months later. For comparison, Exhibit 1011 indicates “Organic light-emitting diodes based on new n-doped electron transport layer” was published online, and made available to the public, via the Elsevier ScienceDirect website as of August 29, 2008, also available to the public on December 2, 2008, and published in hard copy in the December 2008 issue of Synthetic Metals, which is four months later. Because the first article listed in the December 2, 2008 Articles in Press screen capture was available online on November 28, 2008, and available in hard copy version four months later, by analogy, that supports the idea that Exhibit 1011 (published four months after its available online date) would have been listed in the Articles in Press as of August 29, 2008, the online availability date stated on Exhibit 1011.

27. Attached hereto as Appendix 7 is a web page captured from the Internet Archive describing the Top 25 Hottest Articles feature from the ScienceDirect website. I secured these screen captures myself from https://web.archive.org/web/20080509072646mp_/http://info.sciencedirect.com/using/personalization/top25/.

28. Appendix 7 shows a ScienceDirect web page captured by the Internet Archive as of May 9, 2008. Appendix 7 at p.2. This page describes the Top 25

Hottest Articles feature of the ScienceDirect website. This web page describing this ScienceDirect feature contains the following description: “All articles are included in Top25 lists, including Articles in Press. This means that *because Articles in Press are available online in ScienceDirect before their print publication*, Top25 lists may include articles which have only just been published in the print journals. For example: Top25 lists generated from April - June usage data, will contain articles with publication dates of September.” (emphasis added). *Id.* This passage confirms that articles in press, such as Exhibit 1011, were regularly made available to the public prior to their hard-copy publication in the print edition of the journal.

29. The above is consistent with my understanding and experience that Elsevier had made available a list of articles that were being printed into hardcopy issues at the time (in 2008), so that interested researchers could review and also search and purchase articles even before hardcopies were printed.

30. Considering these Appendices and Exhibits, it is my determination that Exhibit 1011 was made available to the public as of August 29, 2008, and available to the public on December 2, 2008, through today.

B. Documentation Relating to Searchability of Articles in Synthetic Metals

31. I have also been asked to consider whether a person interested in finding articles relating to the subject matter of Ma would be able to find Ma. I am not a technical expert and have not reviewed Ma from a technical perspective.

Therefore, to assess availability, I have considered a) the description of Synthetic Metals; b) the academic impact of Synthetic Metals; c) the searchability of Synthetic Metals; and d) the audience for Synthetic Metals, as provided by Science Direct, and confirmed by subscriptions from academic institutions, such as the Pennsylvania State University (Penn State University).

1. Description of Synthetic Metals

32. Between August and October 2008, Elsevier described Synthetic Metals as “an international medium for the rapid publication of original research papers, short communications and subject reviews dealing with research on and applications of electronic polymers and electronic molecular materials”

Appendix 8 at p.2. It then goes on to explain that “materials considered to be within the purview of this journal include: “low-dimensional conductors and superconductors such as organic charge-transfer compounds and metal chain compounds.” *Id.* These statements are sourced from Appendix 8, which is a web page captured from the Internet Archive containing a description of the Synthetic Metals journals from the Elsevier website. I secured these screen captures myself from

https://web.archive.org/web/20080801063313/http://www.elsevier.com/wps/find/journaldescription.cws_home/504105/description.

33. Appendix 8 reflects an Elsevier web page that was captured by the Internet Archive as of August 1, 2008. Appendix 8 at p.2. Appendix 8 also shows several links allowing users of the Elsevier website to purchase a subscription to Synthetic Metals, indicating the content of Synthetic Metals was available online to be purchased as of August 1, 2008. *Id.* This web page also indicates that users have been able purchase a subscription from Elsevier themselves or the ScienceDirect website. *Id.*

34. Attached hereto as Appendix 9 is a web page captured from the Internet Archive containing a description of the Synthetic Metals journals from the Elsevier website. I secured these screen captures myself from https://web.archive.org/web/20081007042356/http://www.elsevier.com/wps/find/journaldescription.cws_home/504105/description.

35. Appendix 9 reflects the same webpage as reflected in Appendix 8, which was captured by the Internet Archive as of October 7, 2008. Appendix 9 at p.2. In other words, Appendix 9 is a version of the same page captured in Appendix 8, captured at a later date. In comparing Appendix 8 to Appendix 9, none of the relevant passages describing the Synthetic Metals journal changed between August 1, 2008 and October 7, 2008, thus indicating that the relevant passages describing the Synthetic Metals journal were present on August 29, 2008.

2. Academic Impact of Synthetic Metals

36. I also considered the relative academic impact of Synthetic Metals. To do so, I consulted two sources: SCImago and Exaly.

37. Attached hereto as Appendix 10 is a screen capture of a webpage entitled Synthetic Metals as hosted on the SCImago website. I secured these screen captures myself from <https://www.scimagojr.com/journalsearch.php?q=18375&tip=sid&clean=0>.

38. Appendix 10 reflects the academic impact of the Synthetic Metals journal where “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. was published. The ‘Total Cites’ graph visible on page 2 of Appendix 10 indicates that Synthetic Metals was cited hundreds of times per year from 1999 - 2023 by other academic works, with about 1500-2500 citations in 2008 alone. Appendix 10 at p.2. The ‘Subject Area and Category’ field visible on page 1 classifies this journal by subject with the following phrases: Engineering; Mechanical Engineering; Mechanics of Materials; Materials Science; Electronic, Optical and Magnetic Materials; Materials Chemistry; Metals and Alloys; Physics and Astronomy; and Condensed Matter Physics. *Id.* at p.1.

39. Attached hereto as Appendix 11 is a screen capture of a webpage entitled Synthetic Metals as hosted on the Exaly website. I secured these screen captures myself from <https://exaly.com/journal/12737/synthetic-metals>.

40. Appendix 11 is a web page describing the academic impact of the Synthetic Metals journal where “Organic light-emitting diodes based on new n-doped electron transport layer” was first published. The ‘Papers’ figure visible on page 1 of Appendix 11 indicates that Synthetic Metals is in the top 1% in number of published works when compared to other academic journals. Appendix 11 at p.1. The ‘Citations’ figure visible on page 1 of Appendix 11 indicates that Synthetic Metals is in the top 1% of citations when compared to other academic journals. *Id.*

3. Searchability of Synthetic Metals

41. I also considered the search capability for articles in Synthetic Metals, in particular through the ScienceDirect website that Elsevier maintains.

42. Attached hereto as Appendix 12 is a web page captured from the Internet Archive containing a search engine from the Elsevier website. I secured these screen captures myself from https://web.archive.org/web/20080828135416/http://www.elsevier.com/wps/find/dvproductsearch.cws_home?action=product_search&search=no.

43. Appendix 12 shows an Elsevier search page captured by the Internet Archive as of August 28, 2008. Appendix 12 at p.2. This web page containing the Elsevier search engine contains the following description: “You can refine your search by selecting one of more search options available.” *Id.* This passage indicates that users of this search feature, as of August 28, 2008, are able to search for journal

articles published by Elsevier, such as in Synthetic Metals, by searching any of the following fields alone or any combination of these fields: keyword, publication title, author, editor, ISBN, ISSN, publication date, pre-assigned subjects, and publication type. *Id.* Based on my experience, this search feature is equally robust as the search features included in a typical library catalog. By offering a flexible selection of search fields, Elsevier's search engine allows for complex queries and highly refined results for both experienced users and users with minimal knowledge of Elsevier's collection. As Synthetic Metals is included within Elsevier's collection, the search engine in Appendix 12 indicates that Synthetic Metals was indexed by Elsevier according to keyword, publication title, author, editor, ISBN, ISSN, publication date, pre-assigned subjects, and publication type.

44. Attached hereto as Appendix 13 is a web page captured from the Internet Archive containing a search engine from the Elsevier website. I secured these screen captures myself from https://web.archive.org/web/20081112040754/http://www.elsevier.com/wps/find/dvproductsearch.cws_home?action=product_search&search=no.

45. Appendix 13 reflects that this web page was captured by the Internet Archive as of November 12, 2008. Appendix 13 at p.2. Appendix 13 is a version of the search page captured in Appendix 12, captured at a later date. In comparing Appendix 12 to Appendix 13, none of the relevant passages discussing search

options changed between August 28, 2008 and November 12, 2008. As such, it is my determination that these search features were in place during the publication of “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. on August 29, 2008.

46. I observe that Exhibit 1011, in addition to having the title “Organic light-emitting diodes based on new n-doped electron transport layer” lists several keywords on the face of it, including “organic light-emitting diodes,” “doping concentration,” “carrier transport,” and “conductivity.” Exhibit 1011 at 810. Keywords are provided on a journal article to provide a broad descriptive category assisting discovery of journal articles discussing similar topics. For example, users could search for ‘carrier transport’ and find Exhibit 1011 among the results of other academic works discussing ‘carrier transport’ as a subject.

47. I have been informed that, in proceeding IPR2024-01094, Pictiva’s expert, Dr. Schanze, has asserted that in 2008-2009, Elsevier journals were not prompt about indexing online-only versions of new articles, meaning that such articles could not be located unless the searching party knew the title or the author’s name. My experience does not align with Dr. Schanze’s recollection. I also used ScienceDirect during 2008-2009, and my recollection is that the search capabilities were similar to what currently exists—i.e., that one could search at least the title, the abstract, and keywords, if not also full-text. However, even if ScienceDirect’s search

capabilities for new articles in 2008-2009 had been limited just to titles, a person with interest in the subject matter of Exhibit 1011 nevertheless could have readily located the article through ScienceDirect's search capabilities once Exhibit 1011 was published online on April 29, 2008. For example, I used ScienceDirect's current search functionality, which allows, as part of an advanced search function, to search only the field of Title. Using this field-restricted search, I performed a search for electron+transport+layer across all journals indexed by Science Direct for 2008, and identified 3 results, of which Exhibit 1011 is one. Appendix 14 at p.1. I attach the results of that search as Appendix 14, which is a web page captured from ScienceDirect's search capabilities from August 4, 2025, which I downloaded myself from <https://www.sciencedirect.com/search?title=electron+transport+layer&date=2008>. Based on my experience with ScienceDirect, it is my understanding that ScienceDirect's search capabilities has included searching the title, abstract, and full text of an article in press for Synthetic Metals, when online articles were available, including the 2008 time period when the Ma article was made available online.

48. Appendix 15 is a screen capture of another search I performed on the ScienceDirect platform for the phrase "doping concentration," restricting the year of publication to 2008. I secured this screen capture myself from <https://www.sciencedirect.com/search?date=2008&q=doping%20concentration&s>

how=50. “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. appears in the first 50 results provided, indicating Exhibit 1011 was indexed in such a way that users could discover the paper via Science Direct by searching for relevant topics such as “doping concentration” since April 29, 2008. Appendix 15 at p.3.

49. As another example, Appendix 16 is a screen capture of a search I performed on the ScienceDirect platform for the phrase “improved conductivity” (which appears in Ma’s abstract), restricting the year of publication to 2008. I secured this screen capture myself from <https://www.sciencedirect.com/search?date=2008&q=%22improved%20conductivity%22&show=100>. “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. appears in the first 10 results provided, indicating Exhibit 1011 was indexed in such a way that users could discover the paper via Science Direct by searching for relevant topics such as “improved conductivity” since April 29, 2008. Appendix 16 at p.2.

50. The above search results align with my understanding and experience that ScienceDirect’s search capabilities during 2008-2009 were similar to what currently exists.

51. Attached hereto as Appendix 17 is a web page captured from the Internet Archive containing search engine tips from the Elsevier website. I secured

these screen captures myself from
https://web.archive.org/web/20080726082415/http://www.elsevier.com./wps/find/searchtips.cws_home/searchtips.

52. Appendix 17 shows an Elsevier search tips page captured by the Internet Archive as of July 26, 2008. Appendix 17 at p.2. This page describes the methods in which users of the Elsevier search engine would be able to perform advanced search queries using the Elsevier search engine. *Id.* at pp.2-3. According to this page, users would be capable of refining search results using Boolean operators such as ‘AND,’ special operators such as wildcard numbers, and the option to search the full text of Elsevier journal articles as of July 26, 2008. *Id.* at p.2. The page also provides advanced descriptions on how to use some of the search options described in Appendices 12 and 13, such as ‘keyword’. ‘publication title’, ‘author’ and ‘subject areas.’ *Id.*

53. Attached hereto as Appendix 18 is a web page captured from the Internet Archive containing search engine tips from the Elsevier website. I secured these screen captures myself from
https://web.archive.org/web/20081201125406/http://www.elsevier.com./wps/find/searchtips.cws_home/searchtips.

54. Appendix 18 reflects that this web page was captured by the Internet Archive as of December 1, 2008. Appendix 18 at p.2. Appendix 18 is a version of

the search tips page captured in Appendix 17, captured at a later date. In comparing Appendix 17 to Appendix 18, none of the relevant passages discussing search tips changed between July 26, 2008 and December 1, 2008. As such, it is my determination that these advanced search features were in place during the publication of “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. on August 29, 2008.

4. Audience for Synthetic Metals (as part of ScienceDirect)

55. I was also asked to provide a description as to the type of audience ScienceDirect had in 2008-2009.

56. Appendix 7 is discussed above. In addition to confirming that the “Articles in Press” are available online as of their “available online” date, this webpage contains the following description: “ScienceDirect has nearly 11 million regular users which means that the Top25 lists provide an authoritative reflection of readership habits.” Appendix 7 at p.2. As a service with nearly 11 million regular users as of May 2008, ScienceDirect provided access to a broad public audience who were capable of discovering articles within Synthetic Metals using the ScienceDirect search tools. This passage confirms that articles published online within the Synthetic Metals journal, such as Exhibit 1011, were regularly made available to the public prior to their formal publication in the print edition of the journal.

57. Attached hereto as Appendix 19 is a web page captured from the Internet Archive describing the library databases features from the Penn State University Library website. I secured these screen captures myself from https://web.archive.org/web/20080325111147/http://www.libraries.psu.edu:80/eres/PSU_azdesc.html#edesclist.

58. Appendix 19 reflects a Penn State University web page that was captured by the Internet Archive as of March 25, 2008. Appendix 19 at p.2. Appendix 19 includes a list of online databases licensed to the Penn State University Library at the time of capture and includes Elsevier ScienceDirect on page 15. *Id.* p.15. Libraries subscribe to these online databases to provide library patrons access to various digital materials apart from Penn State's own archive. It is my experience that library patrons would enter their library credentials into the database service and be provided with various levels of access to the materials present in that service.

59. Appendix 19 describes the breadth of materials available to patrons at the time via the Elsevier ScienceDirect on page 15: "This system provides access to the electronic versions of the Elsevier journals that we subscribe to. Current issues and back files are included. Currently, it includes more than 1,200 journals. The full text collection contains over 1.5 million articles from 1995 to present across all fields of science." Appendix 19 at p.15 ("Elsevier ScienceDirect (full text journal articles)"). In addition to subscribing to the Synthetic Metals journal and purchasing

the “Organic light-emitting diodes based on new n-doped electron transport layer” by J.W. Ma, et al. directly from the Elsevier website, Appendix 19 indicates that patrons of university libraries such as the Penn State University Library would be able to access the Ma paper via exploring the library’s digital resources.

60. Attached hereto as Appendix 20 is a web page captured from the Internet Archive describing the library databases features from the Penn State University Library website. I secured these screen captures myself from https://web.archive.org/web/20081230142549/http://www.libraries.psu.edu/eres/PSU_azdesc.html#PSU01018.

61. Appendix 20 reflects that this Penn State University web page was captured by the Internet Archive as of December 30, 2008. Appendix 20 at p.2. Appendix 20 is a version of the Penn State University Library page captured in Appendix 19, captured at a later date. In comparing Appendix 19 to Appendix 20, none of the relevant passages discussing digital library services changed between March 25, 2008 and December 30, 2008. As such, it is my determination that these digital library services were in place during the publication of Exhibit 1011.

62. Attached hereto as Appendix 21 is a copy of the MARC record for Synthetic Metals as held by the Penn State University Library. I secured this record myself from the library’s public catalog. The MARC record contained within Appendix 21 accurately describes the title, publisher and ISSN number of Synthetic

Metals. The 008 field of the MARC record in Appendix 21 shows the date of record creation and that the Penn State University Library has acquired Synthetic Metals since June 10, 1998, and has held the journal to present, including the time period when “Organic light-emitting diodes based on new n-doped electron transport layer” by Ma was published. The Showing Results field present on page 3 of this record indicates that the library’s collection includes the December 2008 issue of Synthetic Metals containing “Organic light-emitting diodes based on new n-doped electron transport layer” by Ma. The 130, 210, 222, 245, and 538 fields of the MARC record show that the Penn State University Library has had online subscription to Synthetic Metals as an electronic resource. This is consistent with my understanding and experience that creating a MARC record for a journal such as Synthetic Metals in this context indicates the library secured a digital subscription to the journal at the same time as creation, indicating that each subsequent issue released after that date was also acquired by the library. The above further supports my determination that the Penn State University Library provided online digital access to Synthetic Metals during the time period covering the publication of Exhibit 1011, including since August 29, 2008 and December 2, 2008.

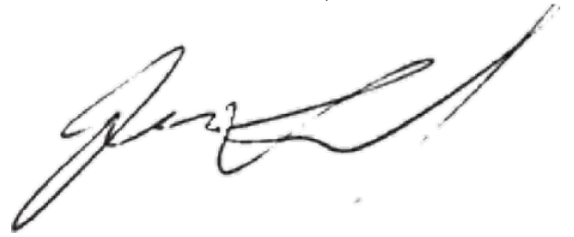
V. Conclusion

63. As illustrated via the attached Appendices and discussed Exhibits, members of the public (such as the 11 million members with access to

ScienceDirect) interested in accessing Exhibit 1011, “Organic light-emitting diodes based on new n-doped electron transport layer” would have been capable of discovering this article via its electronic publication in Synthetic Metals, a journal from a well-known publisher, Elsevier, with hundreds of citations per year. Navigating the ScienceDirect search website using its journal search function using keywords such as “organic light emitting diode,” “electron transport layer,” “doping concentration,” or “improved conductivity” is a route which an interested member of the public would have been able to discover Exhibit 1011. As such, it is my determination that Exhibit 1011 was available to the interested public at the time of its electronic publication as of August 29, 2008 and through December 2, 2008, as reflected in the Articles in Press Listing (Appendix 5), and to present, as discussed above, and was published in hard copy in the December 2008 issue of Synthetic Metals.

64. I declare under penalty of perjury that the foregoing is true and correct. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

Dated: November 14, 2025

A handwritten signature in black ink, appearing to read 'June Ann Munford', with a long, sweeping flourish extending to the right.

June Ann Munford

APPENDIX CV

June A. Munford
Curriculum Vitae

Education

University of Wisconsin-Milwaukee - MS, Library & Information Science, 2009
Milwaukee, WI

- Coursework included cataloging, metadata, data analysis, library systems, management strategies and collection development.
- Specialized in library advocacy, cataloging and public administration.

Grand Valley State University - BA, English Language & Literature, 2008
Allendale, MI

- Coursework included linguistics, documentation and literary analysis.
- Minor in political science with a focus in local-level economics and government.

Professional Experience

Researcher / Expert Witness, October 2017 – present
Freelance ● Pittsburgh, Pennsylvania & Grand Rapids, Michigan

- Material authentication and public accessibility determination. Declarations of authenticity and/or public accessibility provided upon research completion. Experienced with appeals and deposition process.
- Research provided on topics of public library operations, material publication history, digital database services and legacy web resources.
- Past clients include Alston & Bird, Arnold & Porter, Baker Botts, Fish & Richardson, Erise IP, Irell & Manella, O'Melveny & Myers, Perkins-Coie, Pillsbury Winthrop Shaw Pittman and Slayden Grubert Beard.

Library Director, February 2013 - March 2015
Dowagiac District Library ● Dowagiac, Michigan

- Executive administrator of the Dowagiac District Library. Located in Southwest Michigan, this library has a service area of 13,000, an annual operating budget of over \$400,000 and total assets of approximately \$1,300,000.

- Developed careful budgeting guidelines to produce a 15% surplus during the 2013-2014 & 2014-2015 fiscal years while being audited.
- Using this budget surplus, oversaw significant library investments including the purchase of property for a future building site, demolition of existing buildings and building renovation projects on the current facility.
- Led the organization and digitization of the library's archival records.
- Served as the public representative for the library, developing business relationships with local school, museum and tribal government entities.
- Developed an objective-based analysis system for measuring library services - including a full collection analysis of the library's 50,000+ circulating items and their records.

November 2010 - January 2013

Librarian & Branch Manager, Anchorage Public Library • Anchorage, Alaska

- Headed the 2013 Anchorage Reads community reading campaign including event planning, staging public performances and creating marketing materials for mass distribution.
- Co-led the social media department of the library's marketing team, drafting social media guidelines, creating original content and instituting long-term planning via content calendars.
- Developed business relationships with The Boys & Girls Club, Anchorage School District and the US Army to establish summer reading programs for children.

June 2004 - September 2005, September 2006 - October 2013

Library Assistant, Hart Area Public Library

Hart, MI

- Responsible for verifying imported MARC records and original MARC cataloging for the local-level collection as well as the Michigan Electronic Library.
- Handled OCLC Worldcat interlibrary loan requests & fulfillment via ongoing communication with lending libraries.

Professional Involvement

Alaska Library Association - Anchorage Chapter

- Treasurer, 2012

Library Of Michigan

- Level VII Certification, 2008
- Level II Certification, 2013

Michigan Library Association Annual Conference 2014

- New Directors Conference Panel Member

Southwest Michigan Library Cooperative

- Represented the Dowagiac District Library, 2013-2015

Professional Development

Library Of Michigan Beginning Workshop, May 2008

Petoskey, MI

- Received training in cataloging, local history, collection management, children's literacy and reference service.

Public Library Association Intensive Library Management Training, October 2011

Nashville, TN

- Attended a five-day workshop focused on strategic planning, staff management, statistical analysis, collections and cataloging theory.

Alaska Library Association Annual Conference 2012 - Fairbanks, February 2012

Fairbanks, AK

- Attended seminars on EBSCO advanced search methods, budgeting, cataloging, database usage and marketing.

Depositions

2019 • Fish & Richardson

Apple v. Qualcomm (Case No. IPR2018-001281, 39521-00421IP, IPR2018-01282 and 39521-00421IP2)

2019 • Erise IP

Implicit, LLC v. Netscout Systems, Inc (Case No. 2:18-cv-53-JRG)

2019 • Perkins-Coie

Adobe Inc. v. RAH Color Technologies LLC (Case No. IPR2019-00627, IPR2019-00628, IPR2019-00629 and IPR2019-00646)

2020 ● O'Melveny & Myers

Maxell, Ltd. v. Apple Inc. (Case No. 5:19-cv-00036-RWS)

2021 ● Pillsbury Winthrop Shaw Pittman LLP

Intel v. SRC (Case No. IPR2020-1449)

2022 ● Perkins-Coie

Realtek v. Future Link (Case No. IPR2021-01182)

2023 ● Fish & Richardson

Neuroderm Ltd. v. Abbvie, Inc (Case No. PGR2022-00040)

2023 ● Fish & Richardson

Nearmap US Inc. v. Pictometry International Corp. (Case No. IPR2022-00735)

2023 ● Fish & Richardson

Samsung Electronics v. MemoryWeb LLC (Case No. 39843-0136PS1)

2023 ● Pillsbury Winthrop Shaw Whitman LLP

Gravel Rating Systems v. Costco Wholesale Corp. (Case No. 4:21-cv-149-ALM)

2024 ● Willkie-Farr

Netflix, Inc. v. VideoLabs. Inc. (Case No. IPR2023-00628)

2024 ● Quinn Emanuel Urquhart & Sullivan

Purdue University v. Wolfsped (Case No. 1:21-CV-840)

2024 ● Fish & Richardson

Dish Network v. Entropic Communications (Case No. IPR2024-00393)

2025 ● Perkins Coie

Amazon.com, Inc. v. Nokia Technologies Oy (Case No. IPR2024-00572)

2025 ● Fish & Richardson

Dish Network v. Entropic Communications (Case No. IPR2024-00373)

Limited Case and Clientele History

Alston & Bird

- Ericsson

v. Collision Communications (Case No. IPR2022-01233)

- Nokia

v. Neptune Subsea, Xtera (Case No. 1:17-cv-01876)

- Universal Electronics Inc

v. Roku Inc (Case No. IPR2022-00818)

Alavi & Anaipakos PLLC

- Stingray Group Inc. and Stingray Music USA, Inc.

v. Edwin A. Hernandez-Mondragon and Eglia Corp. (Case No. 1:24-cv-21226-RAR)

Arnold & Porter

- Ivantis

v. Glaukos (Case No. 8:18-cv-00620)

- Samsung

v. Jawbone (Case No. 2:21-cv-00186)

Benesch Friedlander Coplan & Aronoff

- Voyis
v. Cathx (Case No. 5:21-cv-00077-RWS)

Buchanan, Ingersoll & Rooney PC

- Google LLC, AT&T Service Inc., T Mobile USA Inc., Cellco Partnership, Ericsson Inc. & Nokia of America Corp.
v. KT Corp & Pegasus Wireless Innovation LLC (Case No. IPR2025-00293)

Deschert LLP

- Smaxtec Animal Care
v. ST Reproductive Technologies, LLC (Case No. IPR2024-00885)

Duane Morris

- Kangxi Communication Technologies
v. Skyworks Solutions Inc. (Case No. IPR2025-00373)
- Microsoft
v. Edge Networking Systems LLC (Case No. 1:24-cv-00215)

Erise I.P.

- Apple
v. Ericsson Inc. (Case No. IPR2022-00715)
v. Future Link Systems (Case No. IPRs 6317804, 6622108, 6807505, and 7917680)
v. INVT (Case No. 20-1881)
v. Navblazer LLC (Case No. IPR2020-01253)
v. Qualcomm (Case No. IPR2018-001281, 39521-00421IP, IPR2018-01282, 39521-00421IP2)

- v. Quest Nettech Corp (Case No. 2:19-cv-00118-JRG)
- v. Telefonaktiebolaget LM Ericsson (Case No. IPR2022-00275)
- v. Theta IP, LLC (Case No. IPR2024-00818)
- v. THL Holding Company LLC (Case No. 1:23-cv-00548)

- Fanduel

- v. CGT (Case No. 19-1393)

- Garmin

- v. Phillips North America LLC (Case No. 2:19-cv-6301-AB-KS)

- Netscout

- v. Longhorn HD LLC (Case No. 2:20-cv-00349)
 - v. Implicit, LLC (Case No. 2:18-cv-53-JRG)

- Sony Interactive Entertainment LLC

- v. Bot M8 LLC (Case No. IPR2020-01288)
 - v. Infernal Technology LLC (Case No. 2:19-CV-00248-JRG)

- Tesla

- v. Charge Fusion Technologies LLC (Case No. IPR2025-00032)

- Unified Patents

- v. GE Video Compression (Case No. 2:19-cv-248)

Fish & Richardson

- Apple

- v. AliveCor (Case No. 3:21-cv-03958)
 - v. LBS Innovations (Case No. 2:19-cv-00119-JRG-RSP)
 - v. Koss Corporation (Case No. IPR2021-00305)

v. Masimo (Case No. IPR 50095-0012IP1, 50095-0012IP2, 50095-0013IP1, 50095-0013IP2, 50095-0006IP1, 50095-0135IP1)

v. Neonode (Case No. 21-cv-08872-EMC)

v. Qualcomm (Case No. IPR2018-001281, 39521-00421IP, IPR2018-01282, 39521-00421IP2)

v. Resonant Sys. (Case No. 7:23-cv-00077-ADA)

- AsusTek Computer Inc.

v. Videolabs, Inc. (Case No. 22-CV-00720-ADA)

- Dell

v. Neo Wireless (Case No. IPR2022-00616)

- Dish Network

v. Entropic Communications, LLC (Case No. 2:2023-CV-01043)

v. Entropic Communications LLC (Case No. IPR2024-00393)

v. Realtime Adaptive Streaming (Case No. 1:17-CV-02097-RBJ)

v. TQ Delta LLC (Case No. 18-1798)

- Evapco Dry Cooling

v. SPG Dry Cooling (Case No. IPR2021-00688)

- Genetec

v. Sensormatic Electronics (Case No. 1:20-CV-00760)

- Huawei

v. Bell Northern Research LLC (Case No. IPR2019-01174)

- Kianxis

v. Blue Yonder (Case No. 3:20-cv-03636)

- LG Electronics
 - v. Bell Northern Research LLC (Case No. 3:18-cv-2864-CAB-BLM)
- MediaTek
 - v. MOSAID (Case No. IPR2024-00718)
- Metaswitch
 - v. Sonus Networks (Case No. IPR2018-01719)
- Microsoft
 - v. Throughputer Inc (Case No. IPR2022-00757)
- Mom Enterprises
 - v. Ddrops Company (Case No. 1:22-cv-00332)
- MLC Intellectual Property
 - v. MicronTech (Case No. 3:14-cv-03657-SI)
- Nearmap Inc
 - v. EagleView Technologies (Case No. IPR2022-01009)
- Neuroderm Ltd.
 - v. Abbvie, Inc (Case No. PGR2022-00040)
- Posco Co Ltd.
 - v. Pascal Drillet et al. (Case No. IPR2025-00370)
- Realtek Semiconductor
 - v. Future Link (Case No. IPR2021-01182)

- Quectel
 - v. Koninklijke Philips (Case No. 1:20-cv-01710)
- Samsung
 - v. Aire Technology (Case No. IPR2022-00877)
 - v. Bell Northern Research (Case No. 2:19-cv-00286-JRG)
 - v. Communication Technologies Inc (Case No. IPR2022-01221)
 - v. Jawbone Innovations (Case No. IPR2022-00865)
 - v. MemoryWeb LLC (Case No. IPR2022-00885)
 - v. Dodots Licensing Solutions (Case No. IPR2023-00701)
 - v. Telefonaktiebolaget LM Ericsson (Case No. IPR2021-00615)
- Texas Instruments
 - v. Vantage Micro LLC (Case No. IPR2020-01261)
- Xilinx
 - v. Sentient Sensors LCC (Case No. 1:22-cv-00173)

Goodwin Proctor

- Intel
 - v. Proxense, LLC (Case No. 6:24-cv-00283)
- Samsung Electronics
 - v. Mobile Data Technologies (Case No. 2:24-cv-00435)
- Taiwan Semiconductor Manufacturing Company Ltd.
 - v. Advanced Integrated Circuit Process LLC (Case No. 2:24-cv-00623)

Groombridge Wu

- Nearmap

v. Eagle View Technologies Inc. and Pictometry International Corp. (Case No. 2:21-cv-00283-TS-DAO)

Irell & Manella

- Curium

Latham & Watkins LLP

- Apple

v. Advanced Coding Research LLC

Leydig, Voit & Mayer, Ltd.

- Public Availability Consultancy

O'Melveny & Myers

- Apple

v. Maxell (Case No. 5:19-cv-00036-RWS)

- Disney Media & Entertainment Distribution LLC

v. Digital Media Technology Holdings, LLC (Case No. 2:22-cv-01642)

- Micron Technology Inc.

v. Besang Inc (Case No. IPR2023-00900)

- Samsung

v. Daedalus Prime LLC (1335 Investigation)

Perkins-Coie

- Amazon
 - v. Nokia (Case No. IPR2024-00847 and IPR2024-00848)
 - v. Nokia Technologies Oy (Case No. IPR2024-00572)
- Heru Industries
 - v. The UAB Research Foundation (Case No. IPR2022-01148)
- Intel Corporation
 - v. BeSang Inc. (Case No. IPR2023-00991)
 - v. BitMICRO (Case No. 5:23-cv-00625)
 - v. Telefonaktiebolaget L M Ericsson (Case No. IPR2024-00610)
- Realtek Semiconductor
 - v. Future Link (Case No. IPR2021-01182)
- r-pac
 - v. Adasa, Inc. (Case No. 1:2024cv06102)
- Twitter Inc
 - v. VOIP-Pal.com (Case No. 3:20-cv-02397-JD)
- TCL Industries
 - v. Koninklijke Philips NV (Case No. IPR2021-00495, IPR2021-00496 and IPR2021-00497)
- VusionGroup
 - v. Hanshow (Case No. IPR2024-00857)

Pillsbury Winthrop Shaw Pittman

- Intel

v. FG SRC LLC (Case No. 6:20-cv-00315)

- Gravel Rating Systems

v. Costco (Case No. 4:21-cv-149)

v. Lowe's Home Centers (Case No. 4:21-cv-150)

v. T-Mobile USA (Case No. 4:21-cv-152)

v. Kohl's Inc. (Case No. 4:21-cv-258)

v. Under Armor (Case No. 4:21-cv-356)

Quinn Emanuel

- Exact Sciences Corporation

v. Geneoscopy, Inc. (Case No. IPR2024-00459 and IPR2024-1330)

- ServiceNow, Inc.

v. InQusient, Inc. (Case No. 22-900-CJB)

- Wolfsped

v. The Trustees of Purdue University (Case No. 1:2021-cv-00840)

Sheppard, Mullin, Richter & Hampton LLP

- Advanced Micro Devices, Inc and Pensando Systems, Inc.

v. Concurrent Ventures LLC and Xtreamedge, Inc. (Case No. IPR2025-00478)

- Cadence Design Systems Inc.

v. Semiconductor Design Technologies (Case No. 3:23-cv-01001)

Shook, Hardy & Bacon LLP

- HP Inc.

v. Universal Connectivity Technologies (Case No. 1:23-cv-01177)

Stern, Kessler, Goldstein & Fox

- Preliminary Research

Wilmer, Cutler, Pickering, Hale and Dorr

- Apple

v. Shunock (Case No. 1:23-cv-08598)

- Quest Diagnostics Inc., Haystack Oncology Inc. and Haystack Oncology GmbH

v. Natera, Inc. (Case No. 1:23-cv-08598)

- Roche Diabetes, Inc.

v. Trividia Health, Inc. (Case No. 1:24-cv-00668)

Willkie, Farr & Gallagher LLP

- Lenovo, Dell, HP

v. Universal Connectivity Technologies Inc. (Case No. 2:2023cv00449)

- Neurent

v. The Foundry, LLC (Case No. IPR2024-00669)

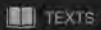
- Netflix, Inc.

v. VideoLabs, Inc. (Case No. IPR2023-00628)

APPENDIX 1



WEB



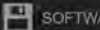
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VIDEO



AUDIO



SOFTWARE



IMAGES



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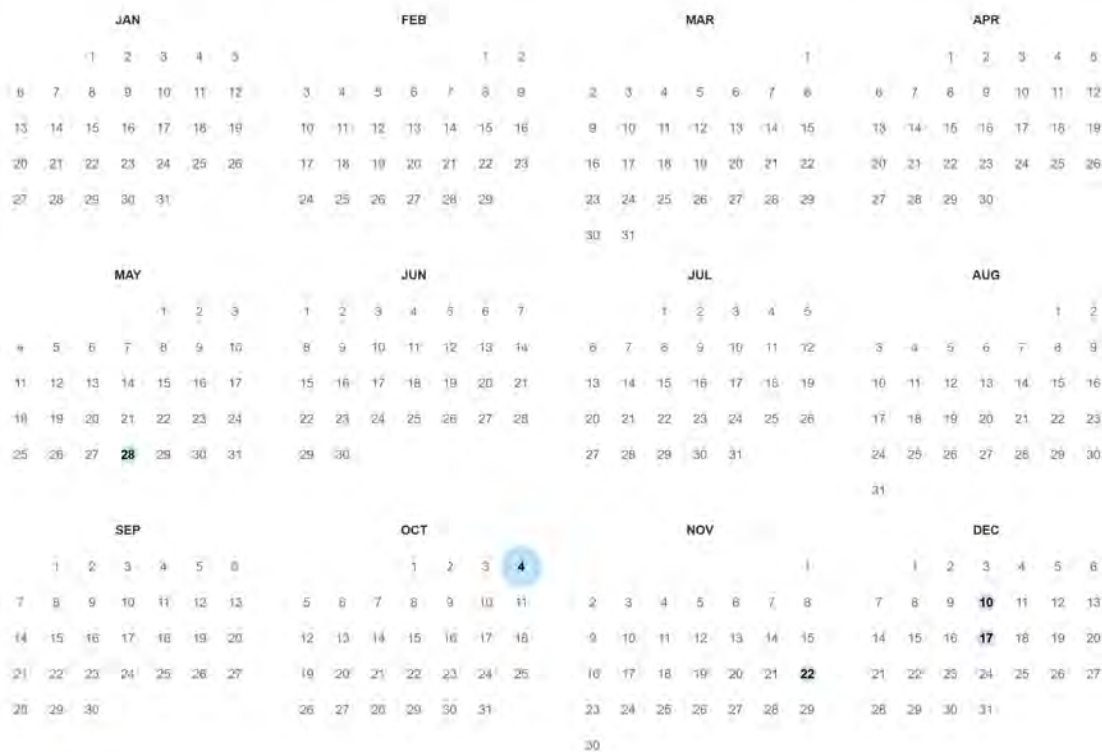
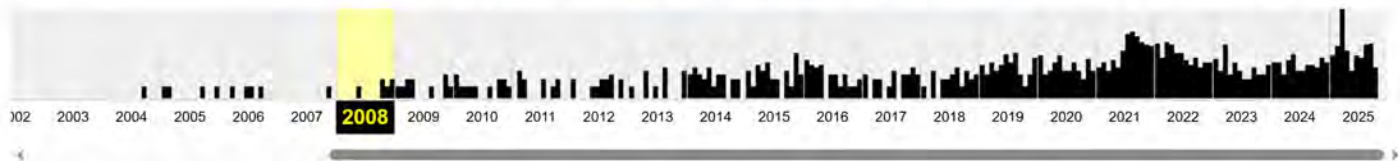
Wayback Machine

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Calendar

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Note

This calendar view maps the number of times <https://en.wikipedia.org/wiki/Elsevier> was crawled by the Wayback Machine, *not* how many times the site was actually updated. More info in the [FAQ](#).

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Elsevier

From Wikipedia, the free encyclopedia

 This article is about the publisher. For the *Dutch language magazine*, see *Elsevier (magazine)*.

Elsevier, the world's largest publisher of *medical* and *scientific literature*, forms part of the **Reed Elsevier** group. Based in *Amsterdam*, the company has substantial operations in the UK, USA and elsewhere.

Contents [hide]

- Origins
- Modern company
- Elsevier company
- Economic indicators
- Company figures
- Elsevier's operating divisions
 - Science & Technology
 - Health Sciences
- Criticism
 - Several entire editorial boards left Elsevier in protest
 - Petition against Elsevier's parent organisation's involvement in weapon shows
- Imprints
- References
- External links

Elsevier

Type

Private company

Founded

1880

Headquarters

Amsterdam

Industry

Publishing

Website

www.elsevier.com

navigation

- Main Page
- Contents
- Featured content
- Current events
- Random article

interaction

- About Wikipedia
- Community portal
- Recent changes
- Contact Wikipedia
- Donate to Wikipedia
- Help

search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link
- Cite this page

languages

- Deutsch
- فارسی
- Français
- Nederlands
- 日本語
- Norsk (bokmål)
- Polski
- Português
- Svenska
- தமிழ்
- 中文

Origins

[\[edit\]](#)

Elsevier took its name (in modernised form) from the historic Dutch publishing house of the same name (see *House of Elzevir*). The Elzevir family had operated as booksellers and publishers in the *Netherlands*. Its founder, *Lodewijk Elzevir*, (1542–1617) lived in *Leiden* and established the business in 1580.

Modern company

[\[edit\]](#)

The modern company was founded in 1880. Leading products include journals such as *The Lancet*, *Cell* and *Tetrahedron Letters*, books such as *Gray's Anatomy*, and the *ScienceDirect* collection of electronic journals. Others include the *Trends* series, and the *Current Opinion* series.

Elsevier company

[\[edit\]](#)

Elsevier may be the world's largest provider of science and health information. It publishes about 250'000 articles per year in 2000 journals^[1]. Its archives contain 7 million past publications. Total yearly downloads amount to 240 million.^[2]

Economic indicators

[\[edit\]](#)

Elsevier is part of the *Reed Elsevier* group. In terms of *revenue*, it accounts for 28% of the total (£1.5b of 5.4 billions in 2006). In terms of *operating profits*, it represents a much bigger fraction of 44% (£395 of 880 millions)^[3]. Adjusted operating profits have risen by 10% between 2005 and 2006.^[4]

Company figures

[\[edit\]](#)

7,000 journal editors, 70,000 editorial board members and 200,000 reviewers are working for Elsevier.^[1] Each year, the company publishes the original work of more than 500,000 authors in 2,000 journals, 17,000 books, 18 new journals and 1,900 new books.^[1]

It is headed by Chief Executive Officer (CEO) *Erik Engstrom*.^[6]

With its headquarters based in *Amsterdam*, *Netherlands*, Elsevier employs more than 7,000 people in over 70 offices across 24 countries.^[1]

Elsevier's operating divisions

[\[edit\]](#)

Elsevier has two distinct operating divisions: Science & Technology and Health Sciences. Products and services of both include electronic and print versions of journals, textbooks and reference works and cover the health, life, physical and social sciences.

Science & Technology

[\[edit\]](#)

Herman van Campenhout is the CEO.

The target markets are academic and government research institutions, corporate research labs, booksellers, librarians, scientific researchers, authors, and editors.

Flagship products and services include: *ScienceDirect*, *Scopus*, *Scirus*, *EMBASE*, *Engineering Village*, *Compendex*, *Cell*.

There are the following subsidiary imprints, many of them previously independent publishing companies: *Academic Press*, *Architectural Press*, *Butterworth-Heinemann*, *CMP*, *Digital Press*, *Elsevier*, *Focal Press*, *Gulf Professional Publishing*, *Morgan Kaufmann*, *Newnes*, *Pergamon*, *Pergamon Flexible Learning*, *Syngress Publishing*.

Health Sciences

[\[edit\]](#)

Brian Naim is the CEO.

The target market is physicians, nurses, allied health professionals, medical and nursing students and schools, medical researchers, pharmaceutical companies, hospitals, and research establishments. Publishing in 12 languages including English, German, French Spanish, Italian, Portuguese, Polish, Japanese and Chinese.

Flagship publications include: The 'Consult' series (FirstCONSULT, PathCONSULT, NursingCONSULT, MDConsult, *StudentCONSULT*), Virtual Clinical Excursions, and major reference works such as *Gray's Anatomy*, *Nelson' Pediatrics*, *Dorland's Illustrated Medical Dictionary*, *Netter's Atlas of Human Anatomy*, and online versions of many journals^[7] including *The Lancet*, *FEBS Letters*, etc.

There are the following subsidiary imprints, previously independent publishing companies: *Saunders*, *Mosby*, *Churchill Livingstone*, *Butterworth-Heinemann*, *Hanley & Belfus*, *Bailliere-Tindall*, *Urban & Fischer*, *Masson*.

Criticism

[\[edit\]](#)

In recent years the subscription rates charged by the company for its journals have been criticised; some very large journals (those with more than 5000 articles) charge subscription prices as high as \$14,000, far above average. The company has been criticised not just by advocates of a switch to the so-called *open-access* publication model, but also by universities whose library budgets make it difficult for them to afford current journal prices. For example, a resolution by *Stanford University's* senate singled out Elsevier as an example of a publisher of journals which might be "disproportionately expensive compared to their educational and research value" and which librarians should consider dropping, and encouraged its faculty "not to contribute articles or editorial or review efforts to publishers and journals that engage in exploitive or exorbitant pricing".^[8] Similar guidelines and criticism of Elsevier's pricing policies have been passed by the *University of*

Several entire editorial boards left Elsevier in protest

[edit]

In November 1999 the complete Editorial Board of the *Journal of Logic Programming* (50 persons in total) collectively resigned after 16 months of unsuccessful negotiations with Elsevier Press about the price of library subscriptions. This editorial board created a new journal (*Theory and Practice of Logic Programming*) with a lower priced publisher, and on its side Elsevier continued the publication of the journal with a completely different editorial board and a slightly different name (The *Journal of Logic and Algebraic Programming*).

In 2002, dissatisfaction at Elsevier's pricing policies caused the *European Economic Association* to terminate an agreement with Elsevier which designated Elsevier's *European Economic Review* as the official journal of the association. The EEA decided to launch a new journal, the *Journal of the European Economic Association*.^[10]

At the end of 2003, the entire editorial board of the prestigious *Journal of Algorithms* resigned to start *Transactions on Algorithms* with a different, lower priced publisher^[11], at the suggestion of *Journal of Algorithms* founder Donald Knuth^[12].

The same happened in 2005 to the *International Journal of Solids and Structures* whose editors resigned to start the *Journal of Mechanics of Materials and Structures*. However, a new editorial board was quickly established and the journal continues in apparently unaltered form with Editors Prof Hills from Oxford and Dr. Stelios Kyriakides from the University of Texas at Austin.

On August 10, 2006, the entire editorial board of the distinguished mathematical journal *Topology* handed in their resignation, again because of stalled negotiations with Elsevier to lower the subscription price.^[13] This board has now launched the new *Journal of Topology* at a far lower price, under the auspices of the *London Mathematical Society*.^[14]

The French *École Normale Supérieure* has stopped having Elsevier publish the prestigious journal *Annales Scientifiques de l'École Normale Supérieure*^[15] (as of 2008^[16]).

Petition against Elsevier's parent organisation's involvement in weapon shows

[edit]

An editorial in the medical journal *The Lancet* in September 2005 sharply criticized the journal's owner and publisher, Reed Elsevier, for its participation in the international arms trade.^[17] Specifically, one of Elsevier's subsidiaries organized the *Defence Systems and Equipment International Exhibition* (DSEI), a large arms fair in the U.K. The authors, appealing to the *Hippocratic oath* called for the publisher to *divest itself of all business interests that threaten human, and especially civilian, health and well-being*.^[18]

In the March 2007 issue of the *The Lancet*, leading medical centers including the UK *Royal College of Physicians* urged Reed Elsevier to sever weapons ties. Doctors spoke out against Reed's role in the involvement of the organizing of exhibitions for the arms trade.^[19] Reed Elsevier's chief executive responded in June 2007 with a written statement^[20], welcomed by authors of the petition,^[21] announcing that it would sell the part of the company which handled military trade shows. Elsevier failed to sell off its exhibitions arm by the end of 2007^{[22][23]}.

Imprints

[edit]

Imprints are brand names in publishing. Elsevier uses its imprints to market to different consumer segments. Many of them have previously been the company names of publishers that were purchased by Reed Elsevier.

- **Academic Press**
- **Architectural Press**
 - **T & A D Poyser**
- **Baillière Tindall**
- **BC Decker**
- **Butterworth-Heinemann**
- **Churchill Livingstone**
- **Focal Press**
- **GW Medical Publishing**
- **Hanley & Belfus**
- **Morgan Kaufmann**
- **Mosby**
- **Newnes**
- **Saunders**
- **Syngress**

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External links

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web sites pertaining to the company

- **Elsevier.com** Elsevier company website
- **Elsevier Librarians Home**
- **Elsevier Health Sciences Asia**
- **Reed Elsevier financial reports**
- **History of the modern company (PDF)**

non-Elsevier web sites

- **Early history of Elsevier family**
- **BBC News: Reed criticised for 'arms link'**
- **CAAT's page on Reed Elsevier**
- **Tom Stafford's blog on Elsevier**

↔ It has been suggested that *2collab* be merged into this article or section. (Discuss)

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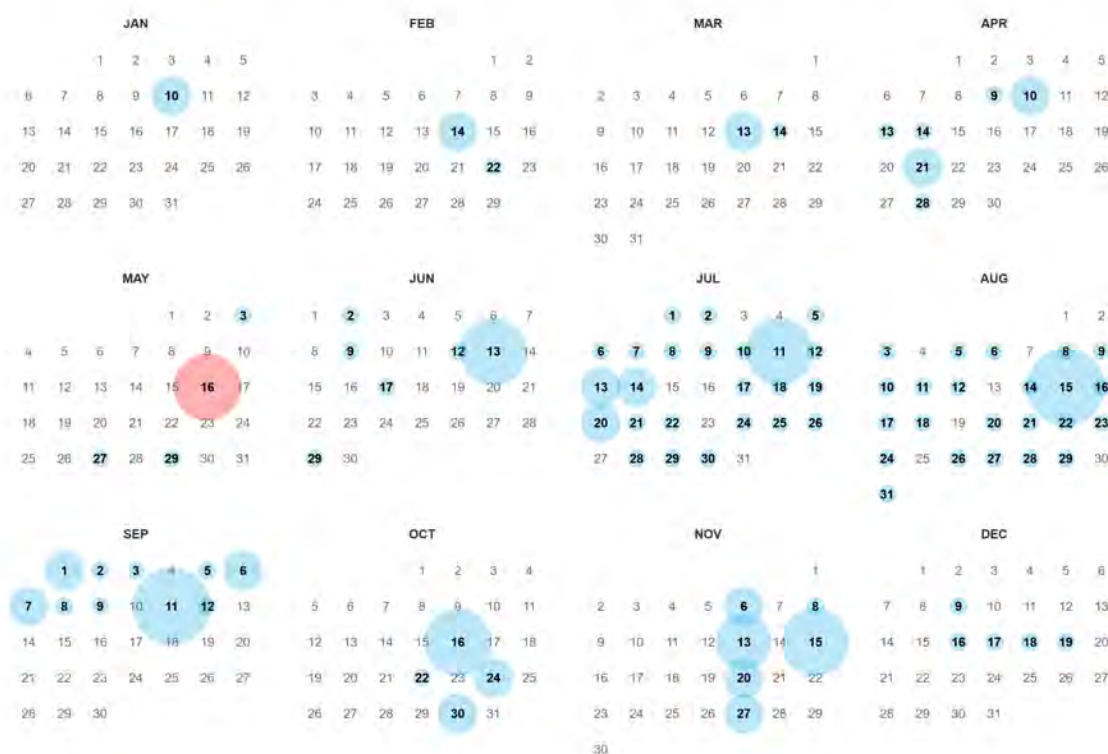
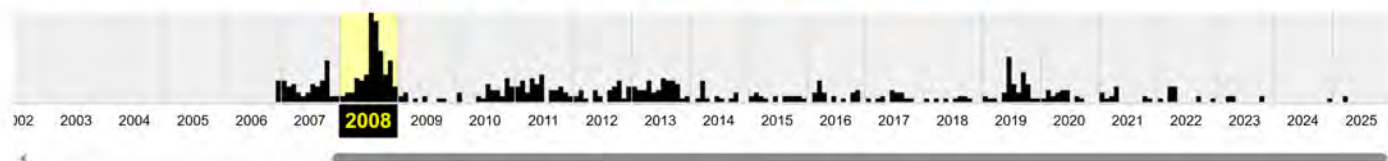
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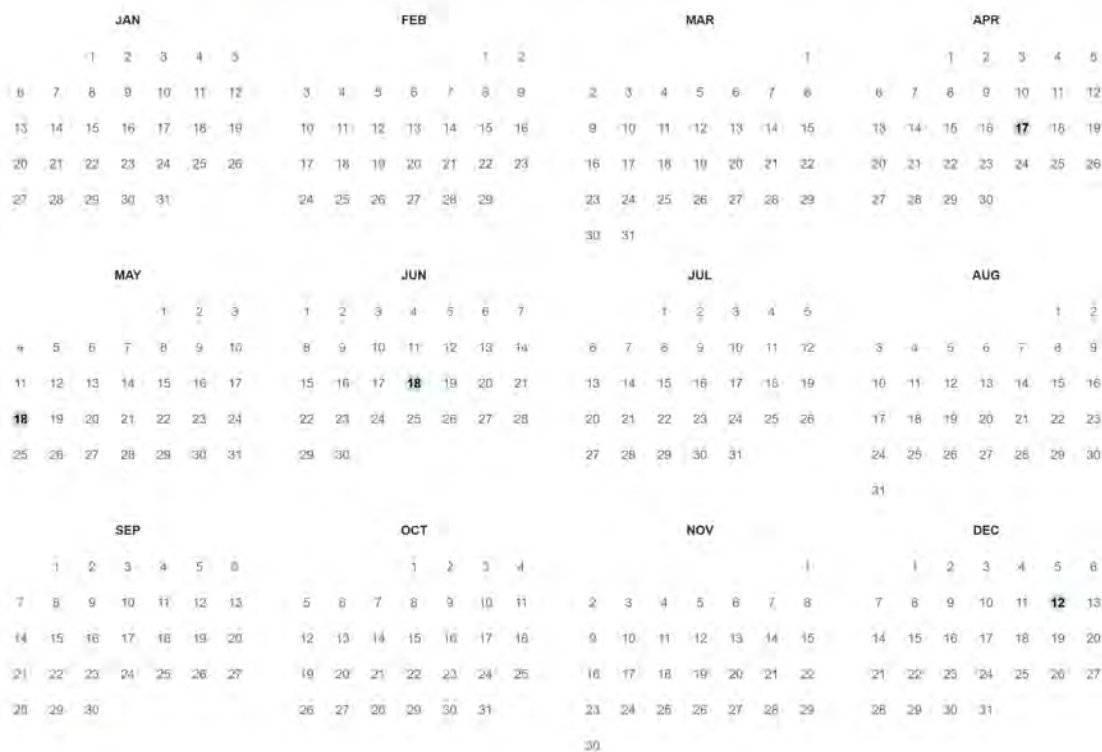
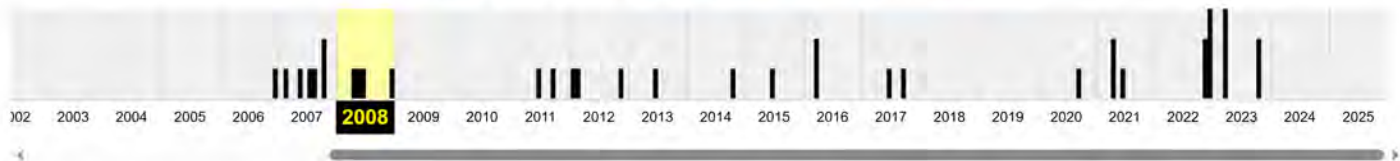
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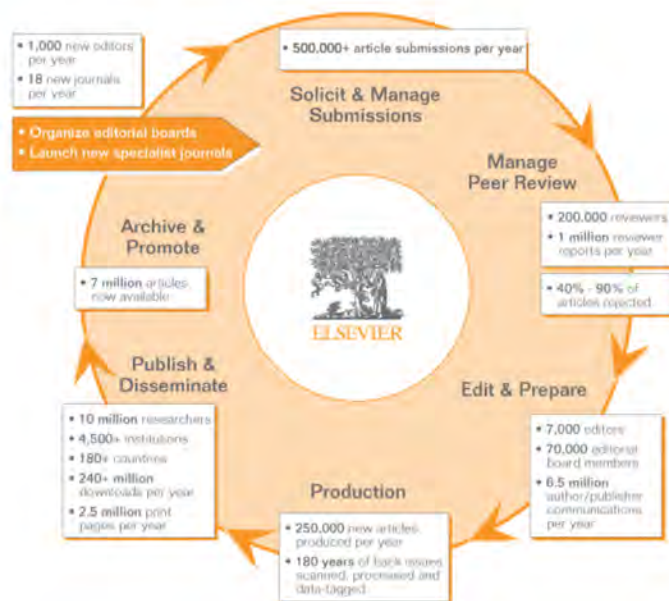
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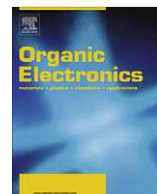
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APPENDIX 2



Letter

Organic solar cells with sensitized phosphorescent absorbing layers

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ABSTRACT

We demonstrate an increase of the exciton diffusion length (L_D) of a fluorescent donor layer via the process of sensitized phosphorescence, whereby initially generated singlet excitons are transferred to triplet excitons via a properly chosen dopant molecule. Using a poly(*p*-phenylene vinylene) host doped with the phosphorescent molecule platinum octaethylporphyrin, L_D increases from 4 ± 1 to 9 ± 1 nm for an optimal doping of 5 wt%. As a result of the increased L_D , the photocurrent from the doped layer increases by 40%. By doping with the fluorescent, non-metalated analogue octaethylporphyrin, a reduction in photocurrent is shown, providing further evidence of the sensitized phosphorescence mechanism.

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Recently, the power conversion efficiency of organic photovoltaics has progressed rapidly, offering new potential as a low-cost renewable energy source, and driven primarily by the development of new materials, device architectures, and processing techniques [1–6]. In an organic semiconductor, the absorption of a photon results in the creation of a bound electron-hole pair, or exciton, that must diffuse to a donor–acceptor interface to dissociate into free charge carriers. Because exciton diffusion lengths, L_D , are typically on the order of 3–10 nm for singlet excitons [2,7], the major bottleneck for achieving high efficiency is in balancing the low L_D while still achieving thick enough layers to absorb most of the incident light. In fact, the bulk heterojunction (BHJ) device concept, whereby the donor and acceptor materials are deposited simultaneously to form an interpenetrated donor–acceptor interface, was created in order to sidestep this tradeoff

[8,9]. However, it is difficult to achieve a very fine phase separation, on the order of a few L_D , while at the same time preserving the good charge transport required for low resistance, efficient cells. If L_D can be increased, efficiencies will also increase [7,10], and the strict requirements for phase separation of blends can be relaxed. One method that should be able to yield larger L_D is to use molecules which have efficient intersystem crossing (ISC), in order to convert singlet excitons into triplet excitons. Because the decay of spin 1 triplet states to the spin 0 singlet ground state is forbidden, the lifetime of triplet excitons is many orders of magnitude greater than singlet state lifetimes which are on the order of ns. Then, since $L_D = \sqrt{D\tau}$, where D is the exciton diffusivity and τ its lifetime, an overall increase in L_D is expected, which should allow for the harvesting of those excitons generated further from a donor–acceptor interface. However, triplets are virtually non-existent in optically excited fluorescent materials, as both direct generation by light as well as ISC from singlets are inefficient processes.

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Organic photovoltaic devices utilizing phosphorescent materials have previously been demonstrated, either by employing directly a phosphorescent small molecular or polymer layer [11–14], or by inducing phosphorescence in a fluorescent host via a proximity effect of a heavy-metal-atom containing phosphor dopant [15]. However, because phosphorescent organic semiconductors are typically characterized by low mobilities and absorption that do not overlap well with the solar spectrum [13], their use as active, absorbing layers may be difficult to realize. One notable exception [2] is the acceptor C_{60} , which has a high charge carrier mobility of $5 \times 10^{-2} \text{ cm}^2/\text{Vs}$, and $L_D \approx 40 \text{ nm}$ owing to its near unity ISC efficiency [16], albeit with an absorption spectrum still focused in the blue wavelength range.

Here, we demonstrate enhanced photocurrent from a fluorescent material via the process of sensitized phosphorescence. We employ a host:guest system where a fluorescent host material continues to be used for light absorption as well as for charge and exciton transport. The guest serves only to convert initially generated host singlet excitons into triplet excitons, as its low concentration prevents efficient transport and absorption. An advantage of this approach to create triplet excitons on a fluorescent host stems from the fact that due to the lack of an efficient triplet decay pathway, triplet states in fluorescent materials [17,18] generally possess significantly longer lifetimes compared with phosphors containing heavy-metal atoms [19] (e.g. ms compared to μs). To allow for the above processes to occur, the host:guest system needs to obey the following criteria: First, that the lowest excited singlet state of the dopant is lower than that of the host material ($S_{1,\text{dopant}} < S_{1,\text{host}}$), and there is sufficient overlap between the emission of the host and absorption of the guest to allow for efficient singlet energy transfer (SET). Second, that the triplet energy of the dopant molecule is greater than that of the host ($T_{1,\text{dopant}} > T_{1,\text{host}}$) for efficient triplet energy transfer (TET) to occur. In addition, care should be taken to allow for efficient charge transport of photogenerated carriers through the host material. Therefore, an additional criterion for a donor material is that the highest occupied molecular orbital (HOMO) of the dopant is greater than that of the host to prevent holes from being trapped on the guest material which would ultimately reduce photocurrent. In the case of an acceptor material, care should be taken that the lowest unoccupied molecular orbital of the dopant is lower than that of the host material to prevent electron trapping.

To demonstrate that the process of sensitized phosphorescence can be used to increase the photocurrent of an absorbing layer, we use as an example the phenyl-substituted poly(*p*-phenylene vinylene) (PPV) donor polymer Super Yellow (SY) doped with the phosphorescent molecule platinum octaethylporphyrin (PtOEP). Furthermore, we investigate the effect of doping with the Pt-free analogue octaethylporphyrin (OEP) to demonstrate the opposite effect: a dopant that allows SET but not TET is expected to actually reduce the photocurrent. Fig. 1a shows the absorption (Shimadzu UV-1601PC) and emission (Shimadzu RF-5301PC) of a pure SY film as well as films doped with PtOEP, whereas Fig. 1b shows SY films

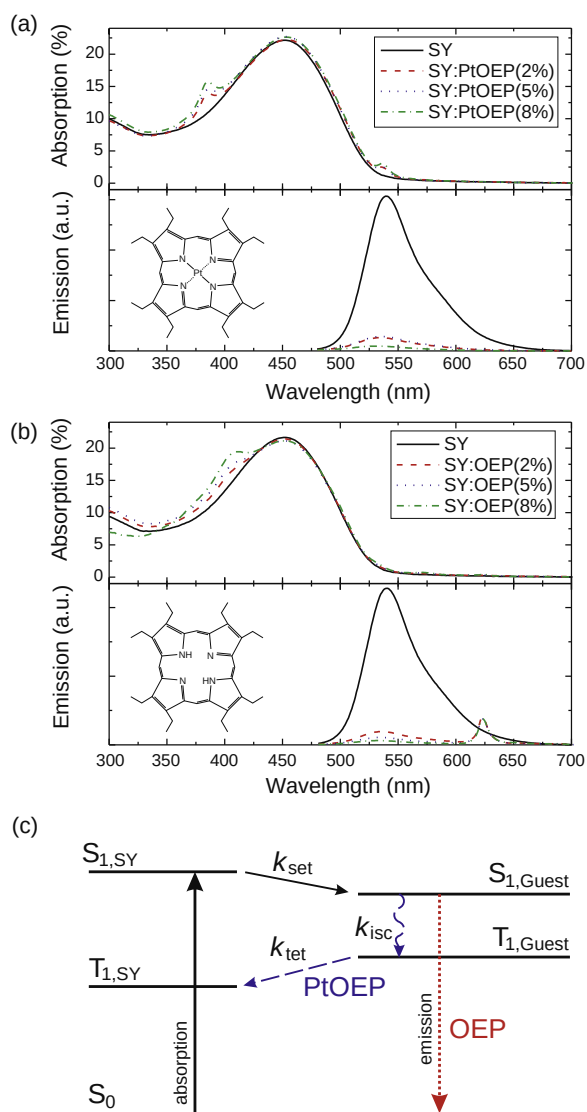


Fig. 1. (a) Absorption (top panel) and photoluminescence (PL) (bottom panel) of 15 nm thick SY and SY:PtOEP thin films with various compositions. The molecular structure of PtOEP is shown as an inset to the bottom panel. (b) Absorption (top panel) and PL (bottom panel) of 15 nm thick SY and SY:OEP thin films with various compositions. The molecular structure of OEP is shown as an inset to the bottom panel. (c) The formation pathways of excitons generated in doped SY. Following absorption in SY to excite a molecule from the ground state (S_0) to the first excited singlet state ($S_{1,\text{SY}}$) there is singlet energy transfer to the guest at a rate k_{set} . For the guest PtOEP (blue dashed arrows), intersystem crossing converts singlet excitons to triplet excitons from $S_{1,\text{Guest}}$ to $T_{1,\text{Guest}}$ at a rate k_{isc} . Finally, the lower triplet energy of SY ($T_{1,\text{SY}}$) quenches the PtOEP triplets with a rate k_{tet} . In the case of an OEP guest (red dotted arrow), the lack of an efficient ISC pathway results in singlet emission.

doped with OEP. The absorption shoulders of PtOEP and OEP are present in the doped films, at wavelengths of $\lambda = 385$ and 535 nm for PtOEP and at $\lambda = 410 \text{ nm}$ for OEP, and the intensity of these peaks increases with doping concentration. The SY emission (excitation at $\lambda = 385 \text{ nm}$), with its peak at $\lambda = 540 \text{ nm}$, is quenched rapidly as a result of the introduction of either dopant. Significantly, PtOEP

phosphorescence [20] at $\lambda = 650$ nm is not present, whereas OEP fluorescence at $\lambda = 625$ nm is observed. This suggests the excitonic pathways illustrated schematically in Fig. 1c, where for the case of PtOEP there is efficient SET from SY to PtOEP molecules, followed by ISC, and finally TET back to SY owing to the lower triplet energy of SY (≈ 1.6 eV) compared to that of PtOEP (≈ 1.9 eV), a phenomenon which has been shown previously for PtOEP in PPV hosts [21]. In the case of OEP, SET onto the OEP dopant occurs, but since OEP is a fluorescent molecule, ISC efficiency is very low and singlet OEP emission is observed.

For the demonstration of sensitized phosphorescence in a solar cell, we use the following device structure: indium–tin–oxide (ITO)/poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) (PEDOT) (30 nm)/SY (15 nm)/C₆₀ (30 nm)/bathocuproine (BCP) (8 nm)/Al (80 nm). Here, ITO/PEDOT serves as the anode, SY as the donor layer, C₆₀ as the acceptor layer, BCP as an exciton blocking layer, and Al as the cathode. The reason for employing only a 15 nm thick SY layer is because the use of thicker layers led to a rapidly increasing series resistance for the device, reducing the fill factor (FF) as well as, and even more significantly, the short circuit current density J_{SC} . The ITO coated glass substrates were solvent cleaned followed by UV/O₃ treatment for 10 min. The PEDOT (H.C. Starck, Baytron P VPAI4083) solution was spincoated at 3000 rpm for 60 s, followed by baking at 120 °C. The SY was dissolved in toluene at a concentration of 1.7 mg/ml, with doping of PtOEP or OEP by weight, followed by spincoating at 2000 rpm for 60 s. The C₆₀, BCP, and Al layers were then deposited in an ultrahigh vacuum chamber (base pressure $< 5 \times 10^{-9}$ Torr). The device area was measured with an optical microscope, with an average area of 3.3 mm². The current density vs. voltage (J – V) characteristics were measured using an Agilent 4156C parameter analyzer with illumination from a LOT-Oriel 1000 W Xe arc lamp fitted with

AM 1.5D filters. Calibration was performed by a KG3 band pass filter and a calibrated Si detector.

The schematic energy diagram of this device is shown in the inset to Fig. 2, where we also show the J – V characteristics of devices with undoped SY, SY:PtOEP(5%) and SY:OEP(5%) donor layers in the dark and under 100 mW/cm² AM1.5D simulated solar illumination. The undoped SY-based device has $J_{SC} = 3.2$ mA/cm², open circuit voltage $V_{OC} = 0.86$ V, FF = 0.54, and power conversion efficiency $\eta_p = 1.5\%$. The doped devices have the same value of V_{OC} , which indicates that the host SY acts as the charge conducting material, a property which is expected for films containing a low concentration of dopant ($< 10\%$) and also owing to the shallower HOMO of SY (5.2 eV) with respect to that of either PtOEP (5.3 eV) or OEP (5.5 eV). The PtOEP-doped device has a dark current almost identical to that of the undoped device, and $J_{SC} = 3.5$ mA/cm², FF = 0.52, and $\eta_p = 1.6\%$ under illumination. In this case, the photocurrent is increased by almost 10%, whereas the FF is slightly decreased, which could indicate that the presence of the PtOEP dopant molecule interrupts charge carrier transport in the SY matrix, making the collection of photogenerated charges more difficult. For the case of 5% OEP doping, $J_{SC} = 2.8$ mA/cm², FF = 0.41, and $\eta_p = 1\%$. Here, the OEP dopant increases the series resistance of the cell, as reflected in the lower dark current at $V \geq 0.7$ V as compared to the other devices. This has the effect of reducing the FF, but does not significantly impact J_{SC} , as an equally reduced photocurrent can be observed even for negative voltages, where photogenerated carriers are efficiently extracted by the applied field.

To understand better the influence of the dopant and whether sensitized phosphorescence plays a role in the device operation, we show in Fig. 3 the dependence of J_{SC} on dopant concentration for either PtOEP or OEP doping. It should be noted that the roughness and therefore interfacial area of the donor–acceptor heterojunction does not increase with doping concentration, as measurements by

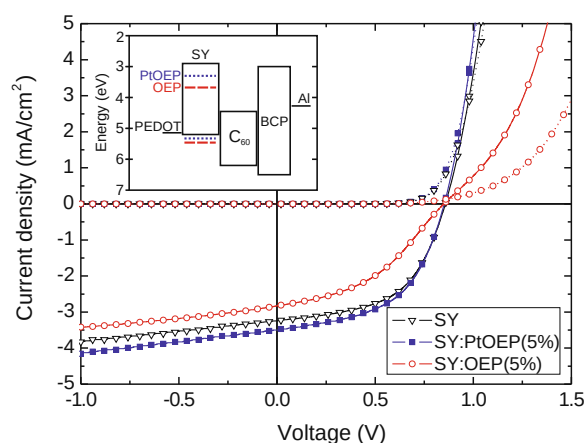


Fig. 2. Current density vs. voltage characteristics in the dark (dotted lines) and under 100 mW/cm² AM1.5D solar illumination (solid lines) with the following device structure: ITO/PEDOT (30 nm)/donor layer (15 nm)/C₆₀ (30 nm)/BCP (8 nm)/Al (80 nm). The donor layer is either pure SY (open black triangles), SY:PtOEP(5%) (filled blue squares), or SY:OEP(5%) (open red circles). Inset: schematic energy diagram of the device structure.

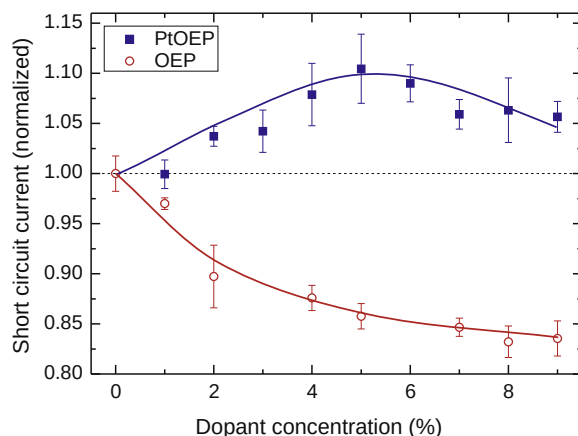


Fig. 3. The normalized short circuit current density vs. dopant concentration for the device structure of Fig. 2 with either PtOEP (filled squares) or OEP (open circles) as the dopant. The data points are representative of the average value of six devices while the error bar indicates the standard deviation. The lines serve as guides to the eye.

atomic force microscopy of doped (8%) and undoped SY films have smooth surface morphologies with root mean square roughnesses of 0.6 nm (data not shown). With an increase in PtOEP concentration, J_{SC} increases by approximately 10%, peaking at a dopant concentration of 5%, beyond which the increase in J_{SC} is reduced. In contrast, the addition of OEP to the SY matrix always results in a decrease of J_{SC} , which appears to saturate at a reduction of approximately 15–18%. This can be understood by considering again the results of Fig. 1, where SY singlets are immediately quenched by the addition of small amounts of the dopant. Once a sufficient doping level has been reached in order to quench a large percentage of the SY excitons, increasing the dopant concentration only suppresses further the transport of charges and/or triplet excitons in the SY layer, resulting in a decreased performance and therefore the presence of an optimal PtOEP concentration. Indeed, the fact that both dopants efficiently quench SY excitons but only PtOEP doping leads to an enhancement of J_{SC} provides significant evidence that excitons are returned to SY in that case, whereas with OEP doping they are lost.

As further evidence of the sensitized phosphorescence mechanism, we consider the external quantum efficiency (η_{EQE}) spectra of doped and undoped devices, as shown in Fig. 4a. To highlight the relative contributions from SY and C_{60} , we also show the calculated absorption efficiency (η_A) spectra for SY and C_{60} (using a transfer-matrix based calculation). The SY contribution is centered at $\lambda = 455$ nm, whereas C_{60} is responsible for the shoulder at $\lambda = 435$ nm and the tail extending to $\lambda = 650$ nm. The reduction of η_{EQE} at $\lambda \leq 375$ nm is due to reflection and absorption from the glass/ITO substrate, resulting in a “false peak” in the measured η_{EQE} at $\lambda = 375$ nm. The η_{EQE} spectrum of the cell with a pure SY donor layer shows distinct features of both SY and C_{60} . From η_A , it is clear that there is a larger contribution to the photocurrent originating from the C_{60} acceptor layer compared to that of SY,

which contributes approximately 15% of the total current, and which is consistent with the fact that OEP doping results in a reduction of J_{SC} by approximately the same amount (cf. Fig. 3). The calculated η_{EQE} spectrum for the undoped device closely fits that of the measured data, and yields an estimate of $L_D = 4 \pm 1$ nm, in excellent agreement to that of other PPV derivatives [22]. For the device with a SY:OEP(5%) donor layer, the contribution from SY is barely visible, functioning instead almost completely on C_{60} . Indeed, spectral fitting for this device requires $L_D \approx 1$ nm, indicating that only SY excitons formed at the interface with C_{60} are able to contribute. This is consistent with the fact that OEP quenches most SY excitons and confines them to the OEP dopant (where emission is observed, cf. Fig. 1b), eliminating the opportunity to dissociate at the donor–acceptor interface.

The η_{EQE} spectrum of the SY:PtOEP(5%) shows instead an enhancement of the SY signal, peaking at $\lambda = 450$ nm to $\eta_{EQE} = 45\%$. Here, SY contributes approximately 21% of the total current, an increase of about 40% compared to the undoped SY donor layer. In this case, L_D of SY triplet excitons is longer than that of singlet excitons, and therefore a larger percentage of photons absorbed in the SY layer are able to contribute to photocurrent. We are again able to obtain an excellent spectral fit, and this provides an estimate of $L_D = 9 \pm 1$ nm, significantly greater than that of the pure SY film. Indeed, the reported fluorescence lifetime of SY is 400 ps [23], whereas the triplet lifetime has been estimated from delayed fluorescence to be 5.6 ms [17], and therefore an increase in L_D could be expected. If we take the difference between η_{EQE} of doped and undoped devices, we obtain the curves as shown in Fig. 4b. Here the difference between the PtOEP-doped and pure SY devices is a result of increased signal from SY, as well as small contributions from PtOEP at $\lambda = 385$ and 535 nm. These contributions from PtOEP provide further evidence of the triplet transfer process, as direct absorption of PtOEP generates triplet excitons which

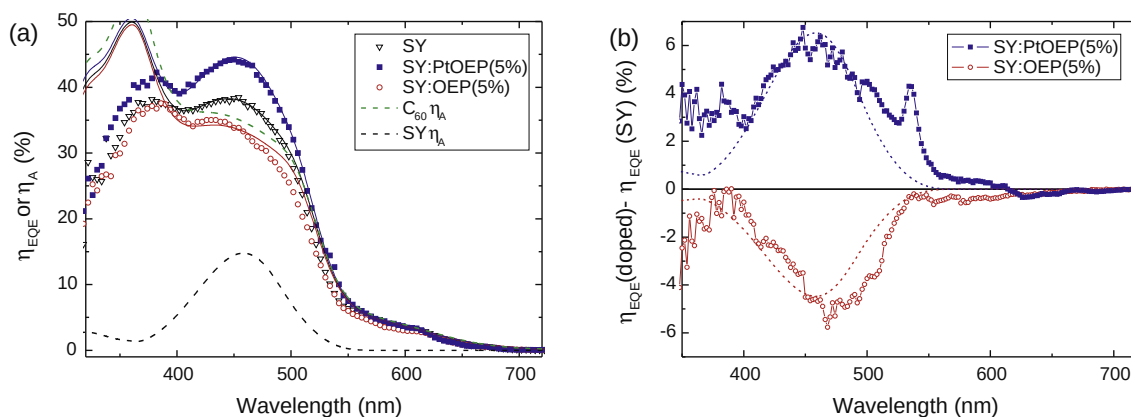


Fig. 4. (a) Measured external quantum efficiency (η_{EQE}) spectra for the device structures of Fig. 2 with donor layers of pure SY (open black triangles), SY:PtOEP(5%) (filled blue squares), or SY:OEP(5%) (open red circles). The solid lines show the calculated η_{EQE} spectra, with colors corresponding to that of the data points. The dashed lines show the calculated absorption efficiencies (η_A) of the SY (black) and C_{60} (green) layers within the device structure. (b) The difference in η_{EQE} between devices with doped and pure SY donor layers. The blue line with solid squares shows the device with PtOEP doping, and the red line with open circles shows the device with OEP as a dopant. The dotted lines represent the differences in the fits shown in (a). (For interpretation of the references to color in this figure legend, the reader is referred to the web version of this article.)

transfer to SY and are transported to the donor–acceptor interface, contributing to photocurrent. By contrast, the difference between the OEP-doped device and pure SY is negative and corresponds to a loss in the SY spectral response. Also in this spectrum, no additional contribution from the OEP dopant is observed, as would be expected for these immobile singlet excitons.

In conclusion, we have experimentally demonstrated an organic solar cell with a donor layer enhanced by the process of sensitized phosphorescence. By converting optically excited singlet excitons to triplet excitons efficiently, L_D was more than doubled, from 4 ± 1 to 9 ± 1 nm, which in turn increased the signal from this layer by 40%. In contrast, a similar dopant which lacks the ability to convert host singlet excitons to triplet excitons was shown to reduce the photocurrent from the host material. The ability to increase L_D , ideally toward distances equal to the absorption length in organic materials will allow simplified bilayer architectures to possess efficiencies approaching that of BHJ devices, or will at least relax the restrictions placed on the phase separation of blends. The design rules and methodology demonstrated here should lead to the development of new materials with suitable mobility and absorption spectra in order to optimize sensitized phosphorescent organic solar cells.

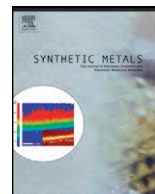
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APPENDIX 3



Polymerization of aniline in ice

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ABSTRACT

It was observed that the oxidative polymerization of aniline proceeded well not only in the liquid mixtures at 20 °C or –5 °C but also in ice at –24 °C. The oxidative polymerization took place in the solutions of strong acid (0.1 M sulfuric acid) or weak acid (0.4 M acetic acid). It is proposed that the initially generated polyaniline participates in the further redox process, leading to new polyaniline formation. The molecules of the monomer (aniline) and oxidant (peroxydisulfate) thus react by transferring electrons through the conducting polyaniline, without the need to be in direct contact. The polymerization in the liquid phase or in the solid frozen state changes the morphology of the polyaniline. Polyaniline nanogranules or nanotubes are produced in the liquid state, while thin nanowires of 20 nm diameter connecting the submicrometre polyaniline particles have been observed when the polymerization took place in ice.

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1. Introduction

Polyaniline (PANI), the most common conducting polymer [1,2], is typically prepared by the oxidation of aniline in an acidic aqueous medium [3]. It has been observed that the polymerization carried out at reduced temperature yielded PANI with a higher molecular weight [4] and higher degree of crystallinity [5], although the improvement of conductivity was marginal [5]. The higher molecular weight is of benefit when the mechanical properties of PANI are important, e.g., when the solutions of PANI base in *N*-methylpyrrolidone are used to cast PANI membranes [6] or are spun to produce PANI fibres [7] or nanofibres [8].

The freezing point of the reaction mixture containing 0.2 M aniline hydrochloride and 0.25 M ammonium peroxydisulfate is –12 °C. In order to prevent freezing at lower temperatures in similar experiments, copious amounts of lithium chloride have been added into reaction mixture [4,9–14], which stayed liquid even at –40 °C. It has been observed, however, that the polymerization of aniline proceeds well, and to a high yield, even at –50 °C when the reaction mixture was frozen [5,15]. Although the polymerizations of monomers in crystals or solid monomer solutions are well known,

and have been reviewed [16], this behavior in the present system of aniline oxidation is still rather unexpected.

Besides the polymerization in ice, solid-state reactions involving PANI have been described in the literature. The protonation reactions between PANI base and solid organic acids have been established [7,17–22]. The same approach, the mixing of the components in the solid state, has been successfully used for the preparation of PANI complexes with fullerene [23]. The mechanochemical polymerization of aniline, an oxidation of aniline in the solid state, has only recently been reported [24–26]. In this case, the aniline monomer and an oxidant produce a polymer as a result of the joint mechanical grinding of the components. One would expect that, when the oxidation of aniline takes place in the solid state, like in the frozen medium, the process would be slow, if feasible at all, due to the restricted diffusion of reactants in the solids and the reduced probability of their contact. Yet, for reasons discussed below, the polymerization takes place easily even under such conditions.

Kocherginsky et al. [6,27] have demonstrated that the molecule of an oxidant and a reductant separated by a PANI membrane may undergo a redox reaction. This was achieved without any direct contact between the reacting molecules, by simply transporting an electron from the oxidant to the reductant through conducting PANI; the redox reaction between iron(III) chloride and ascorbic acid has been used as an example. This concept has been extended to the preparation of PANI by the oxidation of aniline

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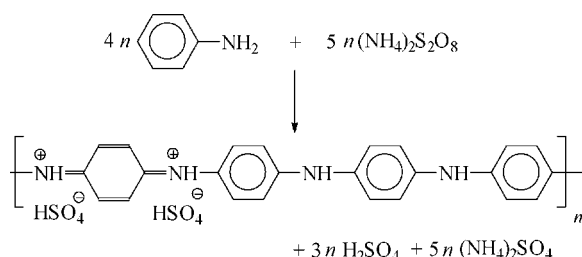


Fig. 1. Aniline is oxidized with ammonium peroxydisulfate to PANI hydrogen sulfate. Sulfuric acid and ammonium sulfate are by-products.

with ammonium peroxydisulfate, solutions of the two components being separated by a PANI membrane [28]. It is elaborated in the present study to provide an understanding of the oxidative polymerization of aniline, which is a typical redox reaction, in a frozen aqueous reaction medium, *i.e.*, in ice.

2. Experimental

2.1. Oxidation of aniline

For the polymerizations in liquid state, aniline (0.2 M) was oxidized with ammonium peroxydisulfate (0.25 M) in 0.1 M sulfuric acid or in 0.4 M acetic acid (Fig. 1). Solutions of a monomer and an oxidant were mixed at 20 °C or after pre-cooling at 0 °C or –5 °C to start the oxidation.

For the polymerizations in ice, the solutions of reactants were mixed at –5 °C in polyethylene containers and immediately cooled to –190 °C in liquid nitrogen. The solid frozen samples were then placed into a freezer at –24 °C. After 20 days, the green solid content was melted and the PANI was isolated on a filter, rinsed with the corresponding acid, and acetone, and dried in air.

When estimating the rate of oxidation, the containers were removed after a specified time, their frozen content was transferred to excess of 1 M ammonium hydroxide, and left to melt there. The combination of the alkaline medium and the accompanying dilution stopped the conversion of aniline to PANI in 0.4 M acetic acid. The precipitated oxidation product was quickly collected on the filter, and thus separated from the residual oxidant and aniline, and dried. For polymerizations in 0.1 M sulfuric acid this approach was not successful, because the ice, if white after removal from the freezer, turned green before it completely melted.

2.2. Characterization

Scanning electron micrographs were taken with a JEOL 6400 microscope (Japan). Molecular-weight distributions (MWD) were assessed by gel-permeation chromatography using a 8 mm × 600 mm PLMixedB column (Polymer Laboratories, UK) operating with *N*-methylpyrrolidone and calibrated with polystyrene standards, with spectrophotometric detection. The samples were dissolved in *N*-methylpyrrolidone containing 0.025 g cm^{–3} triethanolamine for deprotonation of PANI, and 0.005 g cm^{–3} lithium bromide to prevent aggregation. Infrared spectra were recorded with a fully computerized Thermo Nicolet NEXUS 870 FTIR Spectrometer with a DTGS TEC detector. The spectra of the samples dispersed in potassium bromide were recorded in the transmission mode and corrected for the presence of carbon dioxide and water vapour in the optical path. The conductivity was measured with a four-point van der Pauw method, on pellets compressed at 700 MPa with a manual hydraulic press, using as the SMU Keithley 237 and a Multimeter Keithley 2010 voltmeter with a 2000 SCAN 10-channel scanner card.

3. Results

3.1. The course of aniline polymerization: liquid aqueous medium and ice

The fact that the oxidation of aniline in an acidic aqueous medium yields PANI and the conversion of aniline to PANI is practically complete has been well established [2,3]. It is, however, implicitly assumed that the reaction medium is liquid. Nevertheless, it has been demonstrated that, even if the medium becomes frozen, the polymerization of aniline takes place [5]. The polymerization of 0.2 M aniline with 0.25 M ammonium peroxydisulfate (Fig. 1) at 20 °C takes 15 min to complete in 0.1 M sulfuric acid or 40 min in 0.4 M acetic acid [29]. At –24 °C in ice, the process takes place in the solid state, the reaction is slower, yet still feasible. The originally white ice becomes gradually dark green. In 0.4 M acetic acid, the full conversion of aniline to PANI was achieved after 4 h (Fig. 2). The similar oxidation of aniline in 0.1 M sulfuric acid was faster. When trying to estimate the rate of oxidation in this case, we have not been able to stop efficiently this process during the melting of ice.

3.2. Morphology

Polyaniline is known to exhibit a variety of supramolecular morphologies, such as thin films on various substrates [30,31], colloidal particles [32–36], nanotubes [29,37–40], nanowires [41–43], sometimes referred to as nanofibres [44,45], and hollow PANI microspheres [37,45,46]. It is likely that PANI morphology, based on the self-assembly of PANI chains, will also be affected by the

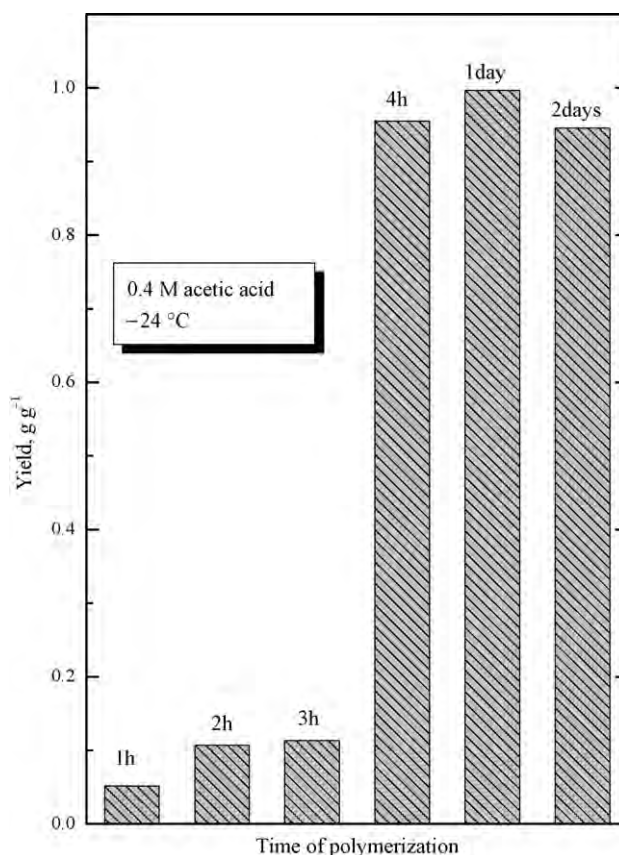


Fig. 2. The time-dependence of the yield of PANI (a polymer obtained from 0.2 M aniline monomer) in the oxidation of 0.2 M aniline with 0.25 M ammonium peroxydisulfate in 0.4 M acetic acid in ice at –24 °C.

liquid or solid state of the medium in which the polymerization takes place. It has already been shown that the polymerization of aniline in the presence of hydroxypropylcellulose yields colloidal particles [15,34]. In the similar polymerization carried out in ice, a sponge-like macroporous composite has been obtained instead [15].

Granular morphology of PANI is typically obtained when the polymerization takes place at 20 °C in solutions of strong acids [28], such as 0.1 M sulfuric acid. At –5 °C, some indications of extended nanostructures are observed (Fig. 3). If the similar reaction takes place in the solutions of weak acid [29], 0.4 M acetic acid, PANI nanotubes are the dominating product (Fig. 4). A rough nanogranular “dotted” surface of the nanotubes, occasionally reported in literature [15,47,48], should be noted. The morphology after polymerization in ice is different, irrespective of acid, and is constituted by particles of submicrometre size, mutually connected by nanofibres of ca. 20 nm thickness (Figs. 3 and 4).

3.3. Molecular weights

The solutions of aniline always contain equilibrium concentrations of aniline as neutral molecules and anilinium cation in various proportions [49]. Aniline molecules dominate at low acidity or in alkaline solutions and the anilinium cations are present with preference in strongly acidic conditions. The oxidation of ani-

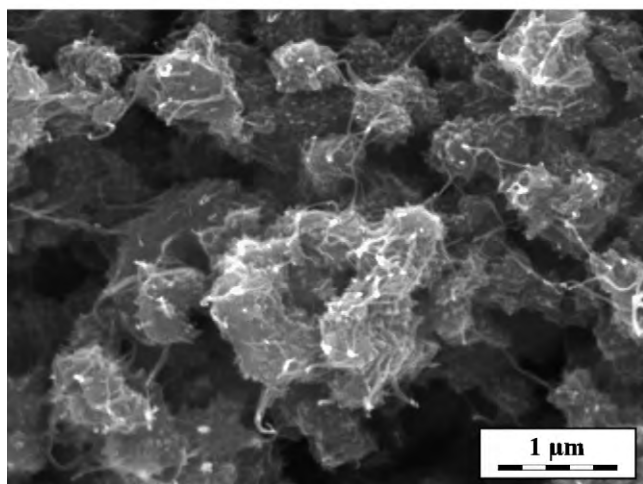
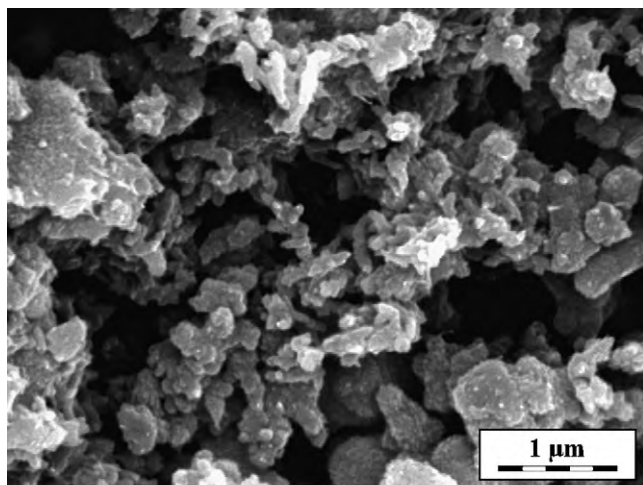


Fig. 3. The morphology of PANI prepared in 0.1 M sulfuric in the liquid state at –5 °C (top), and in the frozen reaction mixture at –25 °C (bottom).

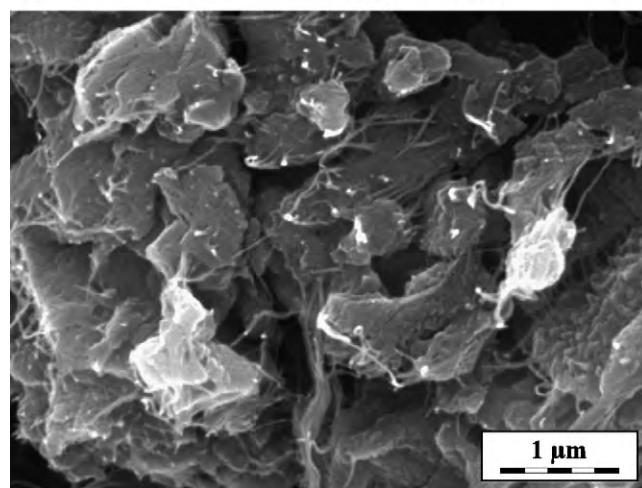
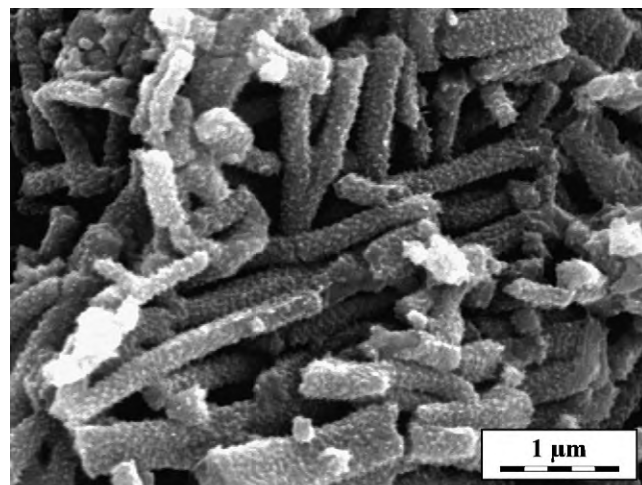


Fig. 4. The morphology of PANI prepared in 0.4 M acetic acid in the liquid state at –5 °C (top), and in the frozen reaction mixture at –25 °C (bottom).

line molecules yields non-conducting oligomers, the oxidation of anilinium cations results in the formation of a conducting polymer [49]. The situation is even more complex because the acidity increases in the course of polymerization, where sulfuric acid is a by-product (Fig. 1) and the proportions of both monomers change correspondingly. Any oxidation of aniline thus yields a mixture of a non-conducting oligomers and conducting polymer, their shares being widely varying depending on the reaction conditions.

The oxidation in 0.1 M sulfuric acid starts and proceeds at strongly acidic conditions, pH <2.5, and yields a polymer (Fig. 5a). The traces of oligomers manifest themselves as an unpronounced shoulder in molecular-weight distributions at low-molecular-weight part. This applies both to the polymerization in a liquid state at 20 °C and in ice at –24 °C. The MWD are monomodal, and shifted to higher molecular weights when the oxidation took place at low temperature. The weight-average molecular weight of PANI produced in ice was $M_w = 30\,400$, the weight-to-number average molecular weight ratio $M_w/M_n = 6.6$. It has to be noted that the reproducibility of the GPC results is not very good; the molecular-weight averages depended on the calculation procedures and have to be regarded as relative estimates only.

The oligomers are the main component when the polymerization takes place in a solution of a weak acid, 0.4 M acetic acid (Fig. 5b). The presence of polymer fraction is demonstrated by a broad peak at the high-molecular-weight region. Under such conditions the oxidation starts at pH 4.5 and the terminal acidity [50]

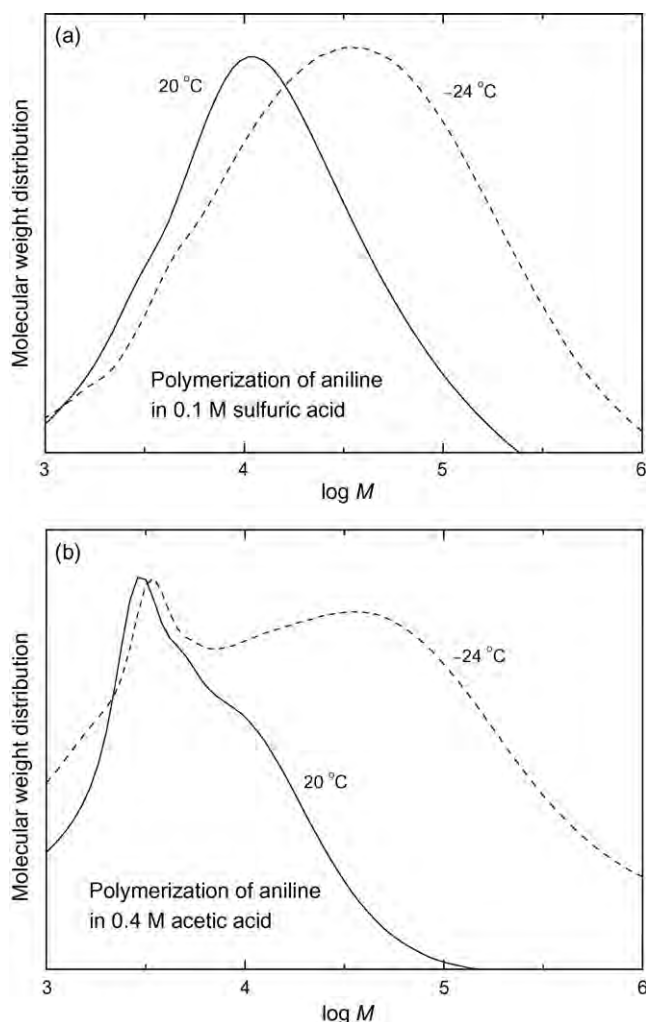


Fig. 5. Weight distributions of the molecular weight of PANI prepared in a liquid reaction mixture at 20 °C and in the frozen mixture at –24 °C (a) in 0.1 M sulfuric acid and (b) in 0.4 M acetic acid.

is pH 1 and this acidity profile is responsible for the generation of oligomers at the beginning of oxidation and the growth of polymer chains at later stage. This two-component character is preserved also when the oxidation takes place in ice; only the proportion of polymeric fraction is considerably enhanced. The polymerization in ice yielded PANI having $M_w = 23\,200$, and $M_w/M_n = 5.6$.

It should be mentioned that the presence of oligomers may be regarded as undesirable when the high conductivity and good processing properties are a goal [14]. On the other hand, such oligomers constitute an important template for the growth of PANI nanotubes and related morphologies [50,51].

3.4. Molecular structure

The molecular structure of PANI prepared at room temperature in solutions of strong acids is different compared with the samples prepared at mildly acidic conditions [50,51]. The spectrum of the PANI base prepared in the presence of 0.1 M sulfuric acid is similar to that reported in the literature [18,51–53] (Fig. 6, spectrum a). Additional peaks situated at 1444, 1414, 1040, and 694 cm^{-1} are observed in the spectrum of the product prepared in 0.4 M acetic acid (Fig. 6, marked by arrows in the spectrum c). They were assigned to aniline oligomers containing the phenazine units [50,51]. The bands at 1444 and 1414 cm^{-1} are probably related

to mixed C–C stretching, and C–H and C–N bending vibrations observed in the spectra of the aniline oligomers [14,53]. The peak at 1040 cm^{-1} is possibly due to the S=O stretching vibration and suggests the presence of sulfonic groups on the aromatic rings [54]. The band at 695 cm^{-1} is characteristic of mono-substituted aromatic rings, terminal groups in aniline oligomers, which corresponds to GPC results [14] (Fig. 5).

The corresponding spectra of PANI prepared in a frozen mixture at –24 °C in 0.1 M sulfuric acid (Fig. 6, spectrum b) and in 0.4 M acetic acid (spectrum d) are very close to the shape of the spectra of samples prepared at 20 °C, including the differences between these spectra described above. The main peaks corresponding to quinone and benzene ring-stretching deformations at 1589 and 1497 cm^{-1} are slightly red-shifted in case of samples prepared in a frozen mixture, which indicates the protonation of the samples. The presence of a small peak at 880 cm^{-1} signifies the presence of ammonium hydrogen sulfate (spectrum e) which protonates the sample. The spectra of samples prepared at reduced temperature (spectra b and d) contain also broad bands of ammonium sulfate (spectrum f) located at about 1413, 1088 and 612 cm^{-1} . This is explained as follows: the samples prepared in ice were transferred to the solution of ammonium hydroxide to stop the polymerization, and left to melt there. The solids were quickly separated on a filter to separate any residual aniline and oxidant. The time was short enough to avoid any polymerization after melting but not sufficient to remove the ammonium hydrogen sulfate or ammonium sulfate, which are the reaction by-products (Fig. 1). The traces of residual ammonium hydrogen sulfate, which is an equimolar compound of sulfuric acid and ammonium sulfate (Fig. 1) from the formal point of view, are likely to partly protonate the PANI base.

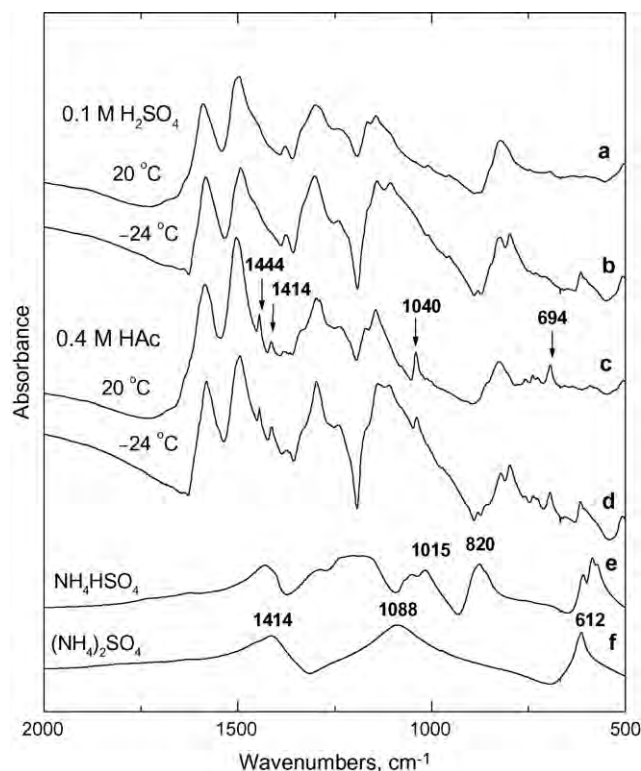


Fig. 6. The FTIR spectra of PANI bases obtained after deprotonation of the samples prepared in a liquid reaction mixture at 20 °C in 0.1 M sulfuric acid (a) and in 0.4 M acetic acid (c), the spectra of the deprotonated samples polymerized in frozen mixtures, in ice, at –24 °C in 0.1 M sulfuric acid (b) and in 0.4 M acetic acid (d), and the spectra of ammonium hydrogensulfate (e) and ammonium sulfate (f).

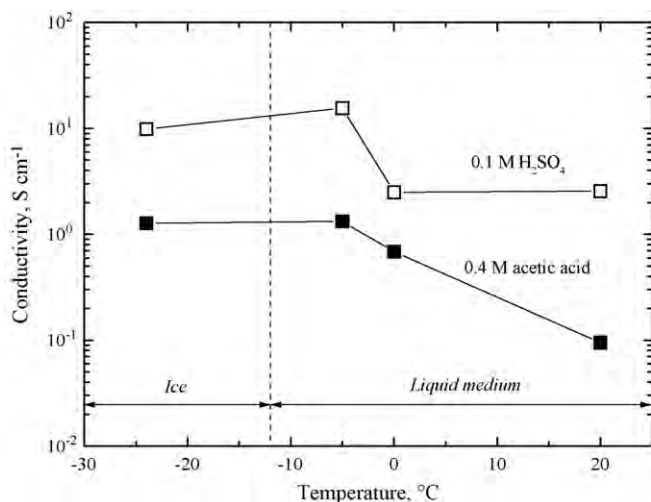


Fig. 7. The conductivity of PANI prepared at various temperatures in 0.1 M sulfuric acid (open squares) or 0.4 M acetic acid (full squares).

3.5. Conductivity

The conductivity is the most important property of conducting polymers. The decrease of temperature from 20 °C to –24 °C leads to the increase in conductivity from 2.5 to 9.8 S cm^{–1} in 0.1 M sulfuric acid, and from 0.1 to 1.3 S cm^{–1} in 0.4 M acetic acid (Fig. 7). This is in the accordance with the earlier observations that the conductivity of PANI is only slightly dependent on the temperature of polymerization [5]; the changes of one order of magnitude are regarded as “small”, because the decrease in conductivity connected with deprotonation of PANI amounts to ten orders of magnitude. A little effect of molecular weight on the conductivity can be explained by the comparable probabilities of inter- and intra-molecular charge transports.

4. Discussion

4.1. Oxidation of aniline on polyaniline

Kocherginsky et al. [6,27] have investigated redox processes occurring at PANI membranes. They have shown that a molecule of a reductant, ascorbic acid, and an oxidant, iron(III) chloride, can react, i.e., supply and accept electrons without being in a direct contact, when separated by a conducting PANI membrane. Such a membrane enables the transfer of electrons from the reductant to an oxidant to occur. This concept was extended to the polymerization of aniline [28]. Solutions of aniline hydrochloride (a reductant) and ammonium peroxydisulfate (an oxidant), separated by a PANI membrane, react in similar fashion to yield PANI by exchanging the electrons through the conducting polymer. Polyaniline was produced entirely on aniline side of the membrane.

The PANI that is produced during the polymerization of aniline may perform a similar role. Let us imagine a reaction mixture containing the molecules of a reductant (aniline salt) and an oxidant (ammonium peroxydisulfate), in the presence of already-produced and still growing PANI body (Fig. 8). An active PANI chain-end will add aniline monomer as a new constitutional unit. The abstraction of two electrons is needed for the formation of a chemical bond between the aniline and the existing PANI chain. These are accepted by the oxidant molecule, peroxydisulfate, which is reduced to sulfate. The crucial point is that any oxidant molecule in contact with PANI particles, and not only the oxidant molecules in the close vicinity of growing chains, can accept electrons. The electrons travel

through the conducting PANI phase from the locus of polymerization to the oxidant. Consequently, neither the aniline monomer nor the oxidant molecules need to diffuse to meet each other in order to react.

It should be noted that simultaneous transport of protons should be considered in order to maintain the electroneutrality of the system [27,28] and the role of PANI as a mixed proton and electron conductor may be of importance [55].

4.2. Polymerization in the frozen reaction mixture

The concept outlined above explains why the polymerization also takes place in a solid system in general and in a frozen aqueous medium, ice, in particular. Once the first traces of PANI have been formed, the molecules of aniline and peroxydisulfate produce further PANI by transferring the electrons through the mass of existing PANI (Figs. 3b and 8). We repeat that there is no need for the molecules to diffuse close to each other to react. As PANI grows by this mechanism, it gradually expands and penetrates the whole volume of the solidified reaction mixture; the electrons can then be transferred through the PANI structure, even over long distances. The resulting PANI structure thus has a connective character, and electrical contact between its parts is maintained, among others, also by PANI nanowires connecting the larger polymer particles (Figs. 3 and 4). The fact that the aniline molecule, which is added to the growing PANI structure, can react with any oxidant molecule which is close to PANI, and not only with the neighboring one (contact reaction in Fig. 8) dramatically increases the probability of reaction. That is why the polymerization is relatively fast even in the solid system. This principle also explains the well-known autoacceleration effect in the oxidation of aniline [15,56,57]; the larger becomes the mass of PANI in the early stages of polymerization, more oxidant molecules are in its vicinity, and the probability of aniline molecules to react with any of them strongly increases. The reaction slows down only after oxidant or aniline molecules or both become depleted.

In a chemical translation, we can schematically describe the above process as follows (Fig. 9): the oxidant (peroxydisulfate) removes electrons from the emeraldine form of PANI – at some point on a PANI macromolecule or a PANI particle – and converts it to the pernigraniline form. On the other hand, the addition of an

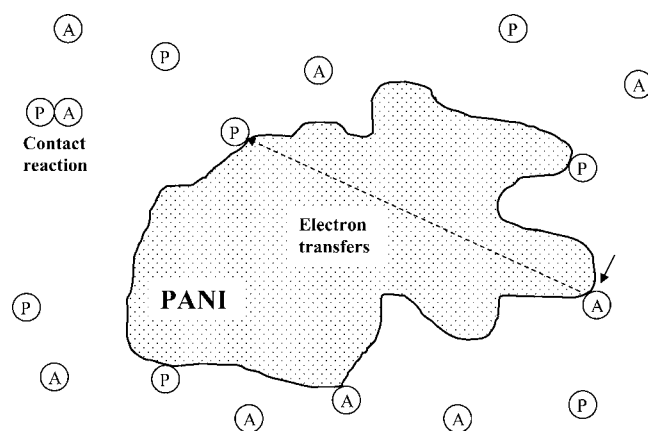


Fig. 8. A PANI chain growing in contact with PANI particles (marked by full arrow) adds an aniline monomer molecule (A) as a new constitutional unit. The electrons abstracted during the formation of the chemical bond incorporating the aniline molecule are transferred to the oxidant, peroxydisulfate molecule (P), which is reduced to sulfate. Any oxidant molecule in contact with PANI particles can accept electrons, which are transported through the conducting PANI phase (broken arrow) from the locus of polymerization. Aniline can also react with peroxydisulfate in the classical way, by exchanging electrons after physical contact between the molecules.

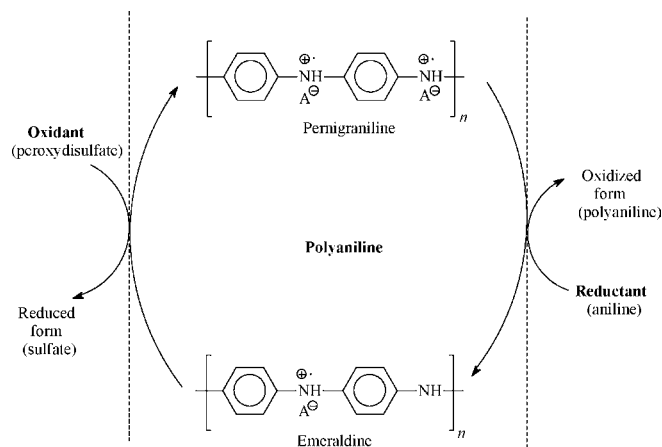


Fig. 9. The oxidant, peroxydisulfate, removes electrons from the emeraldine form of PANI, and converts it to pernigraniline. The addition of an aniline molecule to a growing PANI chain at another point results in the formation of a new constitutional unit. A transfer of electrons from the newly added aniline unit to the pernigraniline regenerates the original emeraldine form of PANI.

aniline molecule to growing PANI chain at another location results in the formation of a new constitutional unit of PANI. The transfer of electrons from the added aniline molecules to pernigraniline regenerates the original emeraldine form at both reaction loci.

We would like to make here the following point: the polymerization of aniline takes place in contact with preformed nanostructures of PANI and it is not important, from the chemical point of view, whether the surrounding reaction medium is liquid or solid. The differences in the molecular structure of the resulting PANI are negligible but the supramolecular morphology depends on the state of the reaction medium.

4.3. Concluding remarks

There are many questions that can be asked, yet the answers are not available. For instance, during the cooling of reaction mixture to freezing point, some of the components may become insoluble. This would result in the loci having the increased concentration, e.g., of aniline. The fact that sulfuric acid is produced especially at the places where ammonium peroxydisulfate accepts electrons from aniline may similarly produce a local increase in acidity. Such concentration inhomogeneities fixed in ice may affect the course of polymerization and the produced morphology.

5. Conclusions

- (1) The oxidative polymerization of aniline with ammonium peroxydisulfate proceeds well, even when the aqueous reaction mixture is frozen and the oxidation of aniline takes place in the solid state, i.e., in ice. This is explained by the transfer of electrons from aniline to oxidant assisted by the conducting PANI phase. The aniline molecule can be converted to a polyaniline constitutional unit by providing two electrons. These are transferred through conducting PANI body to any oxidant molecules at its vicinity. The aniline thus can react with an oxidant without any direct contact of these two molecules.
- (2) Granular PANI is produced in the liquid reaction mixtures in 0.1 M sulfuric acid, PANI nanotubes are produced in 0.4 M acetic acid. In the frozen mixtures at -24°C , products are composed of submicrometre PANI particles connected by PANI nanowires of ca. 20 nm diameter. The nanowires are expected to provide the electrical contact and participate in the electron transfer between larger PANI particles.

- (3) A decrease in the reaction temperature from 20°C in the liquid state and the polymerization in ice at -24°C results in a small increase in the conductivity measured at room temperature. The conversion of aniline to PANI is practically complete in both cases. Polyaniline of higher molecular weight is produced at lower temperatures. FTIR spectroscopy suggests that the molecular structures of the PANI prepared in the liquid or in the solid state are identical.

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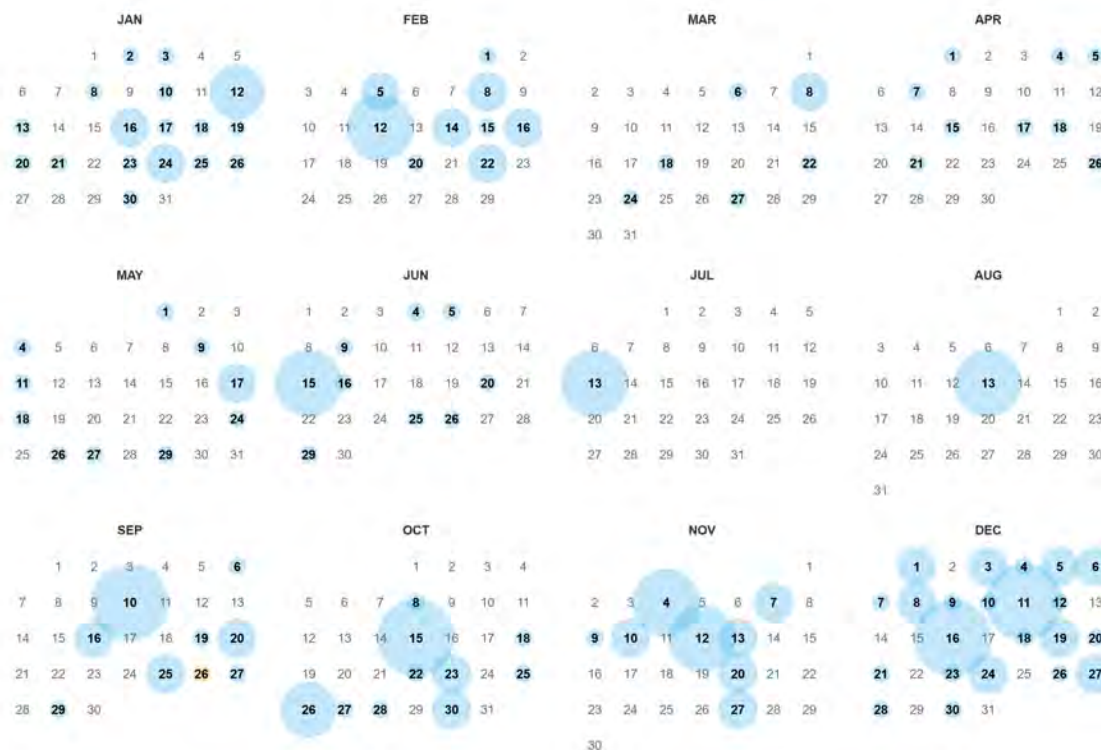
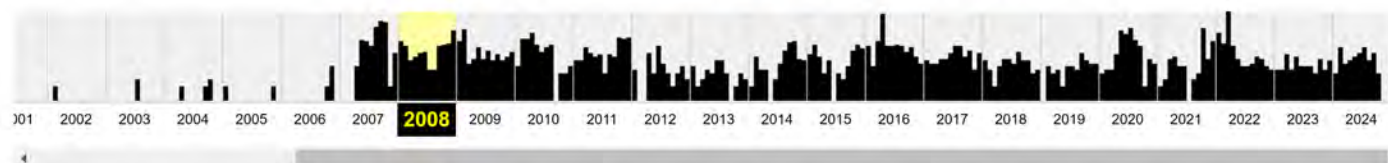
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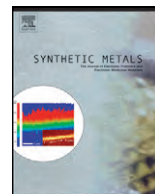
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APPENDIX 6



Isophorone-based analogues with A- π -D- π -A structure for red organic light emitting devices

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ABSTRACT

New electroluminescent materials, two DCM analogues 1,4-Bis[2-[3-(1,1-dicyanovinyl)-5,5-dimethyl-cyclohexenyl]vinyl]benzene (**1**) and 1,4-Bis[2-[3-(1,1-dicyanovinyl)-5,5-dimethyl-cyclohexenyl]vinyl]-2,5-di-(n-butoxy)benzene (**2**) with A- π -D- π -A structure were synthesized and characterized. Optical properties (UV-vis and fluorescence) were studied for both compounds according to the spectra analysis. Theoretical calculation and cyclic voltammetry were used to analyze the frontier molecular orbital of the two compounds. The result suggests that compound **2** can be used not only as dopants but also as host emission and electron injection materials. Two kinds of red OLEDs were fabricated using **2** and all the devices achieved good CIE coordinates.

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1. Introduction

Organic light emitting devices (OLEDs) have attracted considerable attention due to their wide applications in full-color displays and lighting sources [1–4]. For full-color displays, high performance organic materials emitting the three elemental colors as red, green, and blue are required. Compared with the excited progress both of the green and the blue emitter [2,3], however, the red emitter with high performance still remains as a large challenge to date [4]. The first reported red OLEDs which were obtained using 4-(dicyanomethylene)-2-methyl-6-[4-(di-methyl-amino)styryl]-4H-pyran (DCM) as a red dopant [5]. The other dopants, such as rare earth metal complexes [6] and porphyrin compounds [7], also have been investigated for red emitters. Up to now, the DCM-type dopants are still in focus due to the good efficiency [8]. Generally, most of the reported DCM dopants were structurally featured by their donor- π -acceptor (D- π -A) moieties, which bestowed a typical intramolecular charge transfer (ICT) character for both ground and excited states of DCM-type dopants and their emission wavelength could be thus finely tuned by varying the D and/or A unit. For example, introduction of isophorone skeleton as electron acceptor in DCM

structure led to new DCM-type dopants, which could achieve red emissions with both good CIE coordinates and color purity [9].

To our knowledge, most research about the ICT-type red emission for OLEDs focus on D- π -A or D- π -A- π -D [10] structure. There is little study about A- π -D- π -A type compound [11]. In this paper we report two new isophorone-base red light emitting materials for OLED application. All the compounds have A- π -D- π -A structure, containing two 3-(dicyanomethylene)-5,5-dimethylcyclohexene electro-acceptor moieties, show in Scheme 1. The presence of two electron-acceptor moieties increases the electron affinity of these materials and improve their efficient electron injection ability [12]. All the advantages mentioned above made the two molecules can be used not only as dopants but also as host emission materials. Their photophysical and electrochemical properties and electroluminescent behaviors as red emitters were studied.

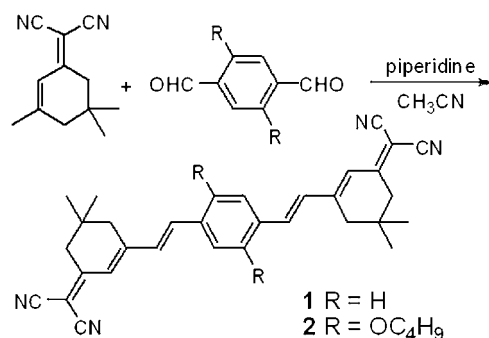
2. Experimental

2.1. General

All the reagents used for the synthesis of the red emitting materials were purchased from Alfa Aesar and used without further purification. Tris(8-hydroxyquinolino)-aluminum (Alq₃), N,N'-bis(1-naphthyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamine

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Scheme 1. Preparation of the presented DCM analogs.

(NPB) and 2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline (BCP) used for EL devices fabrication were purchased from Aldrich and purified by three sublimation. NMR spectra were recorded on a Bruker AV-300 spectrometer (300 MHz). The infrared spectra (IR) were measured as KBr pellets on a Shimadzu Prestige-21 IR spectrometer. Elemental analyses were carried out on an Elemental Pe-2400 using Flash EA 1112 method. The mass spectra were performed on a Shimadzu MALDI AXIMA-CFR spectrometer. The photoluminescence and absorption spectra of emitters were recorded with a Shimadzu RF-5301PC fluorescence spectrometer and a Hitachi UV-3010 UV-visible spectra photometer, respectively. The redox potentials were measured by cyclic voltammetric method on a Potentiostat/Galvanostat (Model 273A), in which a three-electrode single-compartment electrochemical cell was used with a glassy carbon electrode as working electrode, a platinum wires as counter electrode, and an saturated calomel electrode (SCE) as the reference, respectively. A solution (0.1 M) of Bu_4NPF_6 was used as the electrolyte, and was flushed with N_2 prior to the measurements to avoid oxygen contamination. Thermogravimetric analysis (TGA) and Differential scanning calorimetry (DSC) results were obtained using a DTG-60AH (Shimadzu) and a Diamond DSC (PerkinElmer).

2.2. Synthesis

Preparation of the reported DCM analogs is shown as in Scheme 1. Both the dialdehydes [13] and dicyanomethylideneisophorone [14] were synthesized according to the literature. For typical procedures, piperidine (10 mol.%) was added to a mixture of dicyanomethylideneisophorone (1.0 eq.) and dialdehyde (0.5 eq.) in acetonitrile. The mixture was then refluxed for 10 h under nitrogen atmosphere. After cooling to room temperature, the precipitate was filtered followed by silica gel column chromatography eluted by dichloromethane. Recrystallization from acetonitrile provided the product with purity required for OLED applications. All products were confirmed by spectral data and elementary analysis.

2.2.1. 1,4-Bis[2-[3-(1,1-dicyanovinyl)-5,5-dimethyl-cyclohexenyl]vinyl]benzene (**1**)

Yield: 74.6%. ^1H NMR (300 MHz, CDCl_3) δ : 7.52 (s, 4H), 7.03 (s, 4H), 6.86 (s, 2H), 2.60 (s, 4H), 2.46 (s, 4H), 1.08 (s, 12H). ^{13}C NMR (75 MHz, CDCl_3) δ : 168.95, 153.27, 136.93, 135.80, 130.15, 128.15, 124.23, 113.34, 112.60, 79.28, 42.97, 39.21, 32.04, 28.02. IR (cm^{-1} , KBr): 2964, 2926, 2870, 2218, 1645, 1637, 1616, 1562, 1522, 1328, 978. MALDI-TOF-MS: $[\text{M}]^+$: 470.45. Anal. calcd for $\text{C}_{32}\text{H}_{30}\text{N}_4$: C, 81.67; H, 6.43; N, 11.91. Found: C, 81.76; H, 6.52; N, 11.72.

2.2.2. 1,4-Bis[2-[3-(1,1-dicyanovinyl)-5,5-dimethyl-cyclohexenyl]vinyl]-2,5-di-(*n*-butoxy)benzene (**2**)

Yield: 73.5%. ^1H NMR (300 MHz, CDCl_3) δ : 7.44 (d, $J = 16.2$ Hz, 2H), 7.08 (s, 2H), 7.05 (d, $J = 16.2$ Hz, 2H), 6.87 (s, 2H), 4.08 (t, $J = 6.3$ Hz, 4H), 2.61 (s, 4H), 2.47 (s, 4H), 1.90–1.83 (m, 4H), 1.63–1.54 (m, 4H), 1.09 (s, 12H), 1.05 (q, $J = 7.5$ Hz, 6H). ^{13}C NMR (75 MHz, CDCl_3) δ : 169.14, 154.24, 151.82, 131.10, 130.11, 127.33, 123.91, 113.50, 112.88, 110.28, 78.48, 69.13, 43.00, 39.04, 32.05, 31.31, 28.02, 19.43, 13.93. IR (cm^{-1} , KBr): 2955, 2924, 2870, 2218, 1645, 1637, 1616, 1558, 1524, 1466, 1325, 1203, 978. MALDI-TOF-MS, $[\text{M}]^+$: 614.35. Anal. calcd for $\text{C}_{40}\text{H}_{46}\text{N}_4\text{O}_2$: C, 78.14; H, 7.54; N, 9.11. Found: C, 78.32; H, 7.35; N, 9.19.

2.3. Fabrication and testing the electroluminescent devices

The devices were fabrication on indium tin oxide (ITO)-coated glass substrates with sheet resistance of ca. $50 \Omega \text{ square}^{-1}$. The pretreatment of ITO conducting glass included a routine chemical cleaning using detergent and alcohol in sequence, followed by oxygen plasma cleaning. All organic layers were successively deposited onto the ITO conducting glass substrate by thermal evaporation under high vacuum (5×10^{-6} Torr; 1 Torr = 133.322 Pa), and the thickness of each layer was determined by a quartz thickness monitor. The EL devices fabricated in this paper have a configuration of ITO/NPB (60 nm)/Alq₃: red emitting dopant (7.5 nm)/BCP (15 nm)/Alq₃ (45 nm)/Al (300 nm) and ITO/NPB (35 nm)/red emitting material (45 nm)/Al (300 nm). In the two structures, NPB was used as the hole-transporting material, Alq₃ as the host and electron-transporting material and BCP as the hole-blocking layer, respectively. The doped layer of red dopant in Alq₃ was prepared by co-evaporation with the dopant concentration controlled by carefully adjusting the evaporating rates of the dopant and the host. A cathode layer of Al was evaporated onto the Alq₃ layer. The emissive area of the device was $2 \text{ mm} \times 2.5 \text{ mm}$. The I - V characteristics were measured by an electrometer (Model 2400 Source Meter). EL spectra of the devices were recorded on PR-560. These measurements were all carried out in an ambient atmosphere.

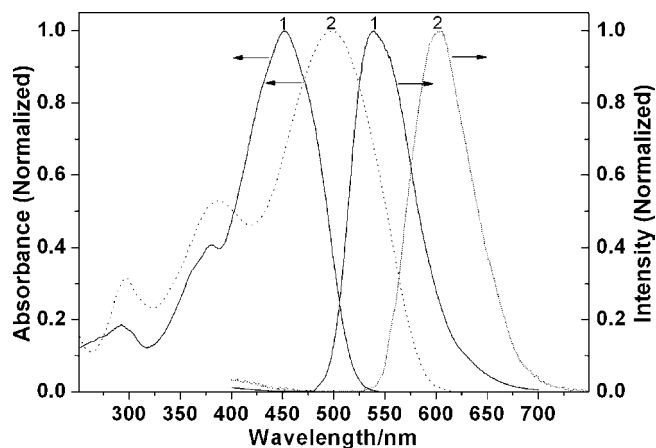
3. Result and discussion

3.1. Absorption and fluorescence spectra

Absorption and photoluminescence spectra data of the reported DCM analogs **1** and **2** in different solvents are collected in Table 1 (solute concentration is 1×10^{-5} M). Both the absorption and fluorescence spectra undergo bathochromic shifts with the increased polarity of the solvents. Further, the Stokes shifts of them also increased accompanied with the polarity of the solvents, which should be resulted from the typical intramolecular charge transfer (ICT) from the aromatic ring as the donor to the divinylmethyleneisophorone moieties as the acceptor. Of the two compounds, **2** exhibits larger Stokes shift than **1**, which indicates that **2** should be more subjective to intramolecular charge transfer than **1**. For the two compounds, three bands could be clearly observed in the UV-vis absorption spectra in dichloromethane between 280 nm and 600 nm (Fig. 1). The absorption in the range from 280 nm to 400 nm could be reasonably attributed to $n \rightarrow \pi^*$ and $\pi \rightarrow \pi^*$ transitions while the bands appeared in 450–500 nm should be resulted from the ICT. From the founding that there is a good overlap between the EL spectrum of Alq₃ and the absorption spectra of **2**, it could be thus expected that an efficient Förster energy transfer from the Alq₃ as host to **2** as the red dopant in EL devices.

Table 1Absorption and emission^a of the reported DCM analogs in different solvents.

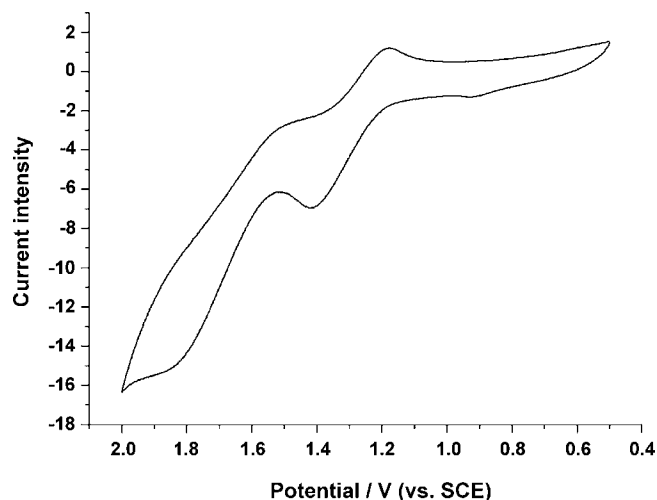
Solvent	1	λ_{em} (nm)	2	λ_{em} (nm)
	$\lambda_{\text{abs}}/\log \epsilon_{\text{max}}$ (nm/M ⁻¹ cm ⁻¹)		$\lambda_{\text{abs}}/\log \epsilon_{\text{max}}$ (nm/M ⁻¹ cm ⁻¹)	
C ₆ H ₆	451/4.76	523	497/4.89	573
CH ₂ Cl ₂	451/4.83	539	499/4.74	603
THF	453/4.83	560	499/4.55	595
DMF	455/4.68	558	505/4.60	623
DMSO	463/4.73	560	514/4.69	634

^a Both the absorption and emission test concentration is 10 μM .**Fig. 1.** Normalized absorption and fluorescence spectra of **1** and **2** in dichloromethane (10 μM).

3.2. Electrochemistry and energy levels

Cyclic voltammetry was carried out on millimolar solutions of **1** and **2** in chloroform. Oxidation wave was not observed for **1**. It is probably because there is no electron donor moiety in structure **1**. The oxidation cyclic voltammogram of **2** is shown in Fig. 2. **2** shows one reversible oxidation wave. The oxidation potential was 1.42 V (vs. SCE).

Both the highest occupied molecular orbital (HOMO) energy level and the lowest unoccupied molecular orbital (LUMO) energy level of compound **2** are calculated according to the data from cyclic voltammetry and the corresponding absorption [15]. The HOMO level of a molecule can be estimated from its onset oxidation poten-

**Fig. 2.** Cyclic voltammogram of **2** in CHCl₃, at a scan rate of 100 mV s⁻¹.**Table 2**Redox properties and energy levels of **1** and **2**.

	E_{ox} (V)	E_{onset} (V)	HOMO (eV)		LUMO (eV)	
			Redox	Quantum	Redox	Quantum
1	–	–	–	5.99	–	3.40
2	1.41	1.19	5.93	5.70	3.83	3.33

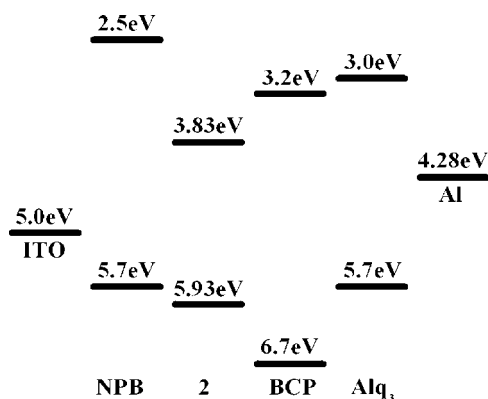
tial versus SCE by adding 4.74 eV (SCE energy level versus vacuum). The onset oxidation potential of **2** was measured to be 1.19 eV. Accordingly, the HOMO energy levels of **2** is calculated to be 5.93 eV and the LUMO energy levels is 3.83 eV calculated by subtracting its optical bandgap from the HOMO energy level (Table 2).

Fig. 3 shows the experimentally estimated HOMO and LUMO energy levels of **2**, along with those of the materials utilized in fabricating the electroluminescence devices, including NPB, BCP, Alq₃, ITO [8], and Al. The introduction of more electron-withdrawing groups can increase the electron affinity of the molecule, and improve its injection and transport properties. Because of the same energy difference between the work function of Al and the LUMO levels of **2**, it can be used as emitting layer as well as an electron injection and transport layer.

3.3. Theoretical calculation

In order to understanding the nature of the photophysical properties of the two red emitting compounds, density functional theory (DFT) was used to calculate their electronic structures. The optimized ground state geometries of all the molecules were obtained using the B3LYP/6-31G* basis set. In this work, we focus our attention on the frontier molecular orbitals (FMO) energy of the compounds. The alkoxy chain length effect was very weak for the FMO energy of these compounds, thus we used methoxy substituting group in the optimization model.

All the two molecules have nearly planar structures that guarantee a large conjugation system, which in turn provides a pathway for the efficient intramolecular electron transfer respon-

**Fig. 3.** Energy level diagram for the materials used in the OLED fabrication.

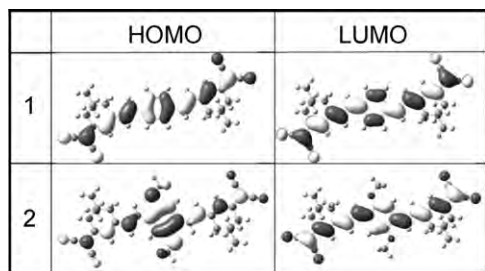


Fig. 4. HOMO and LUMO orbitals in the optimized ground-state structures of **1** and **2**.

sible for the absorption and fluorescence. For the two compounds **1** and **2**, the HOMOs are mainly localized within the electron-donating fraction while the LUMOs are mainly localized within the electron-withdrawing fraction, which indicate the great extent of intramolecular charge transfer upon excitation (Fig. 4). The calculated HOMO/LUMO energy levels of compound **1** and **2** are 5.99/3.40 eV and 5.70/3.33 eV, respectively. There are a little differences between the HOMO and LUMO levels that were theoretically predicted and experimentally estimated for **2**. There is a little differences between the HOMO levels that were theoretically predicted and experimentally estimated for **2** (0.25 eV), but the LUMO levels of obtained by the two approaches are large different (0.5 eV). The differences result from not considering the solvation effect of the molecules in the quantum-chemical calculations. The LUMO levels of **2** is expected to experience a stronger solvation effect, because of the larger dipole moments of LUMO levels than HOMO levels. Consequently, the neglect of the solvation effect will lead to much higher predicted LUMO levels.

3.4. Electroluminescence properties

The thermal properties of **1** and **2** were investigated by thermogravimetric analysis and differential scanning calorimetry. The measure results show that **1** and **2** have good thermal stability. **2** was selected for electroluminescence measurement because of its suitable emission wavelength and energy levels of LUMO. There are two kinds of EL devices were fabricated using **2** as dopant or host emission material. The performances of all the devices were listed in Table 3.

For the devices using **2** as dopant, Alq₃ was chosen as a host material because of good overlap of the emission spectra of Alq₃ and the absorption spectra of **2**. The EL spectra for these devices at different doping concentrations were shown in Fig. 5. It is clear that all the devices achieved good red emission. As the doping concentration increased, the emission maximum is red-shifted. When the doping concentration was 1 wt.%, the EL spectra centered at 636 nm, but there is still a trace of Alq₃ emission at 520 nm, which results in impure red color with CIE coordinates as (0.55, 0.40). When the doping concentration increase to 1.5 wt.% or 3 wt.% the emission of Alq₃ almost disappear, The emission peak red shift to 648 nm and 652 nm with CIE coordinates as (0.62, 0.36) and (0.63, 0.34),

Table 3
EL performances of the OLEDs based on **2**.

Material/method		$\lambda_{\max}$ (nm)	$L_{\max}$ (cd m ⁻²)	$\eta_{\max}$ (lm w ⁻¹)	CIE (x, y)
2^a	1%	636	92	0.031	0.55, 0.40
	1.5%	648	76	0.028	0.62, 0.36
	3%	652	41	0.006	0.63, 0.34
2^b		672	12	0.0005	0.68, 0.32

^a Dopant in host Alq₃.

^b In solid films.

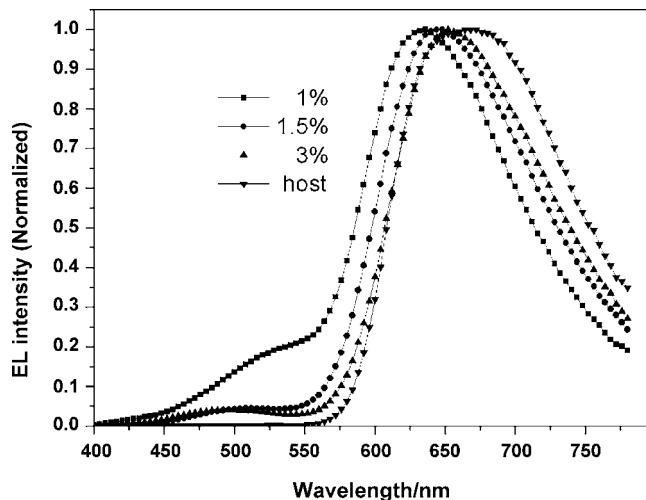


Fig. 5. EL spectra of red emitting devices with the structure ITO/NPB (60 nm)/Alq₃: **2** (7.5 nm)/BCP (15 nm)/Alq₃ (300 nm)/Al and ITO/NPB (35 nm)/**2** (45 nm)/Al (300 nm) (host).

respectively. A typical *I*–*V*–*L* curve of OLEDs device with the doping concentration of 1.5% was shown in Fig. 6, for which the maximum luminance was observed when the drive voltage is 25 V.

Two-layered device was fabricated and examined. **2** was used as an emitting layer as well as an electron injection and transport layer. The turn on voltage is lower than 7 V can be estimated from

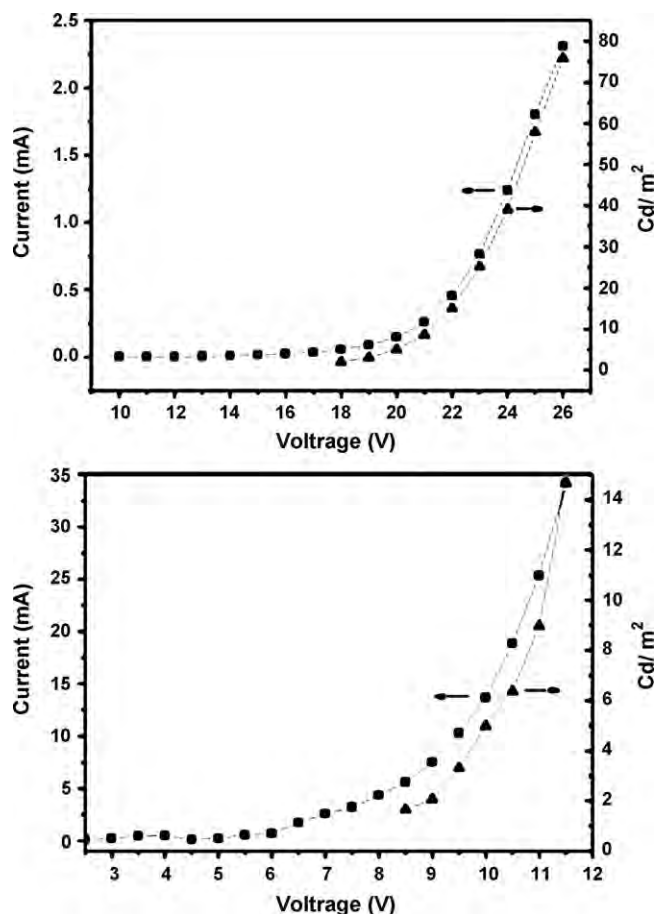


Fig. 6. Current–voltage and luminance–voltage characteristic of devices ITO/NPB/Alq₃: **2** (1.5%)/BCP/Alq₃/Al (up) and ITO/NPB/**2**/Al (down).

Fig. 6. The spectra of the devices are presented in Fig. 5, with the emission peak at 672 nm. The maximum luminance of this device is only 15 cd m^{-2} , but it achieved good color purity with color coordinates as (0.68, 0.32). Optimization of the device configuration to achieve high luminance is required and the experiments are in progress.

4. Conclusion

Two red-emission materials containing alkoxy substituted styryl donor moiety and two 3-(dicyanomethylene)-5,5-dimethylcyclohexene electro-acceptor moieties were synthesized and characterized. The same energy difference between the work function of Al and the LUMO levels of **2** make it can be used as emitting layer as well as an electron injection and transport layer. Two kinds of EL devices were fabricated with the structure of ITO/NPB/Alq₃: **2** dopant/BCP/Alq₃/Al and ITO/NPB/**2**/Al. All the EL devices achieved good color purity emission.

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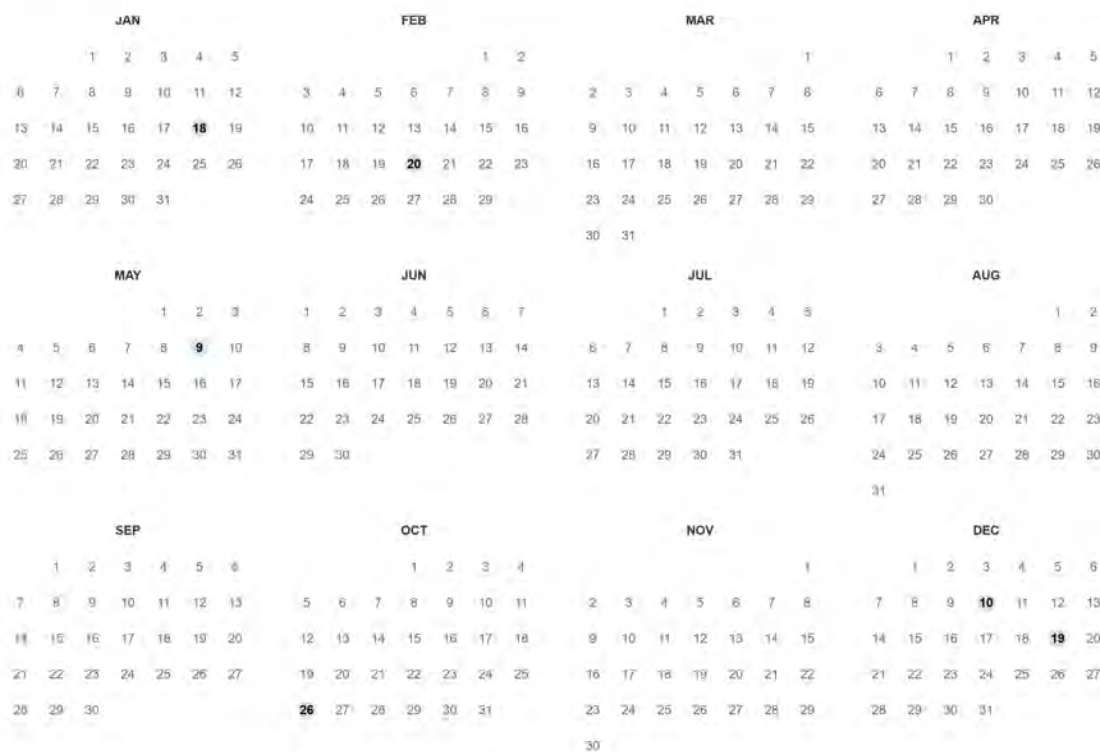
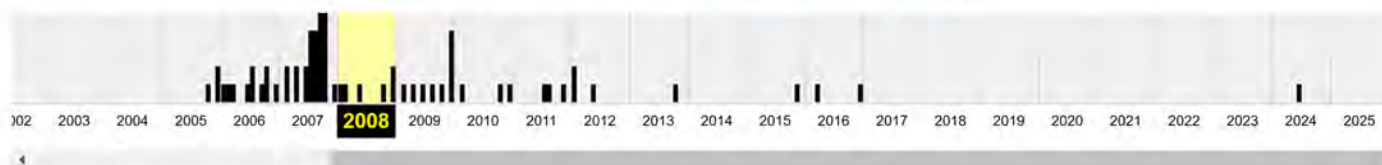
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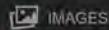
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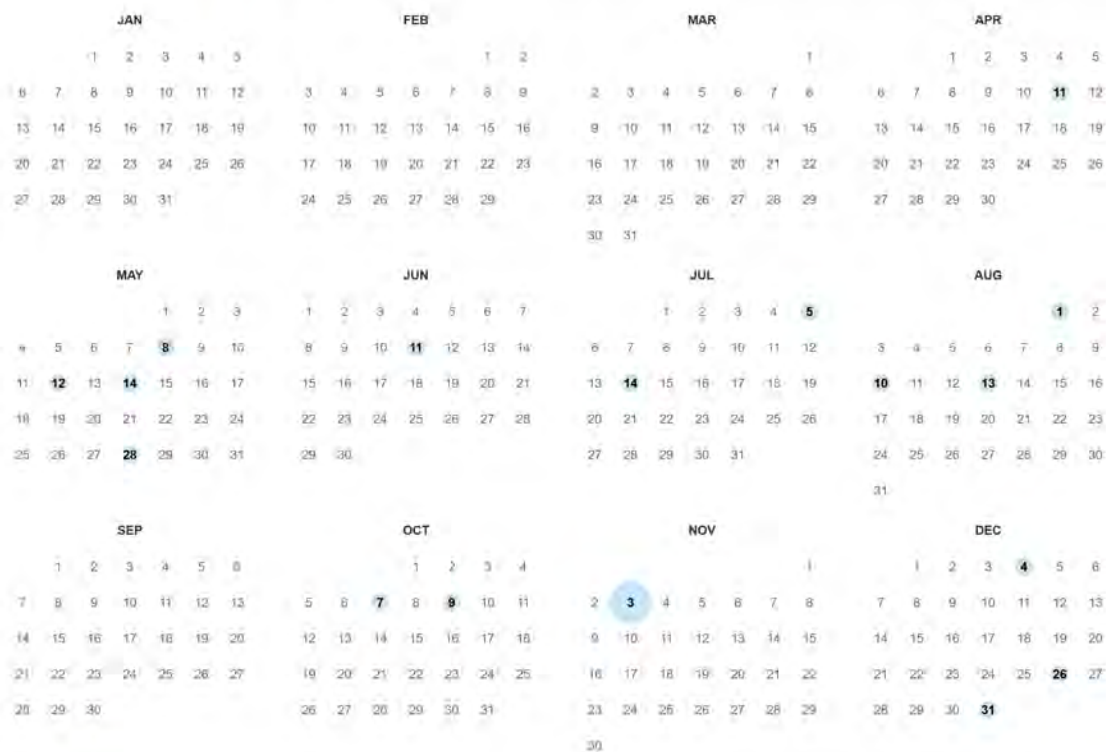
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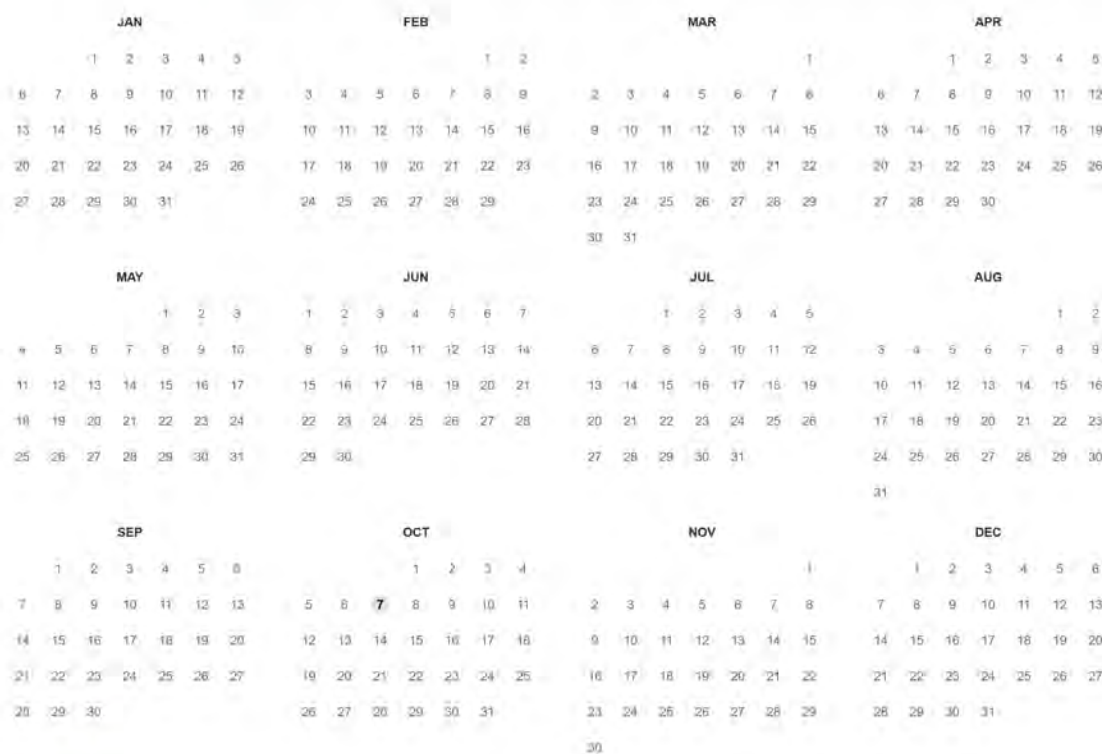
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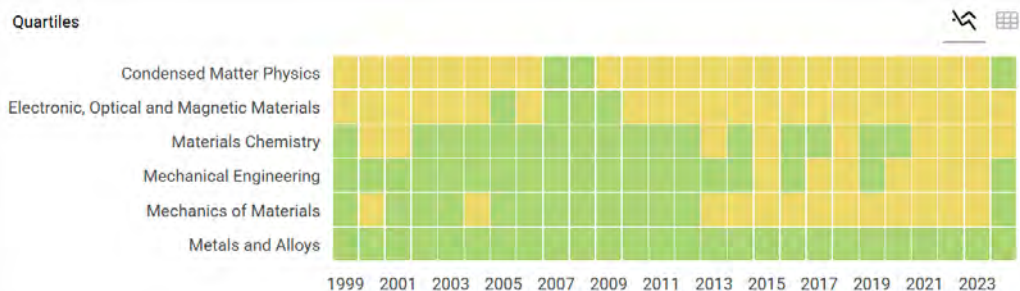
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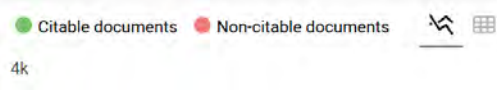
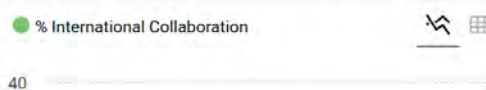
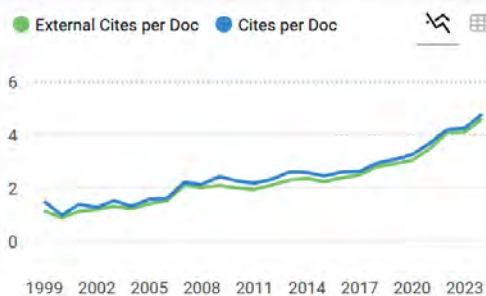
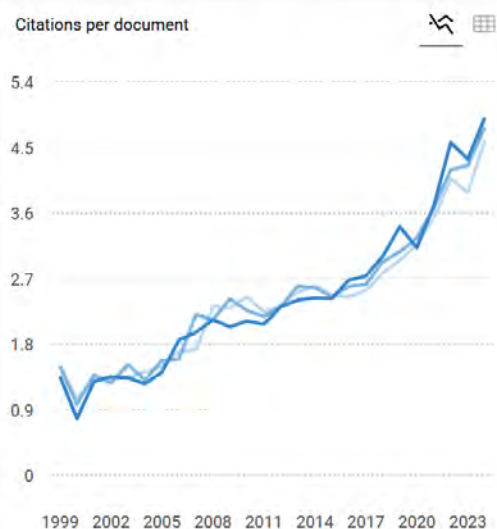
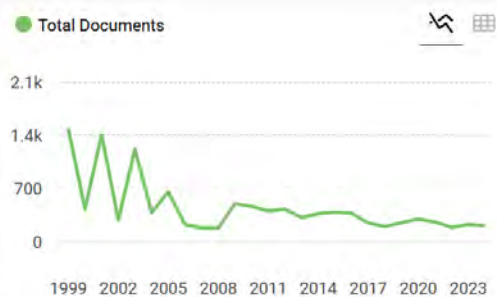
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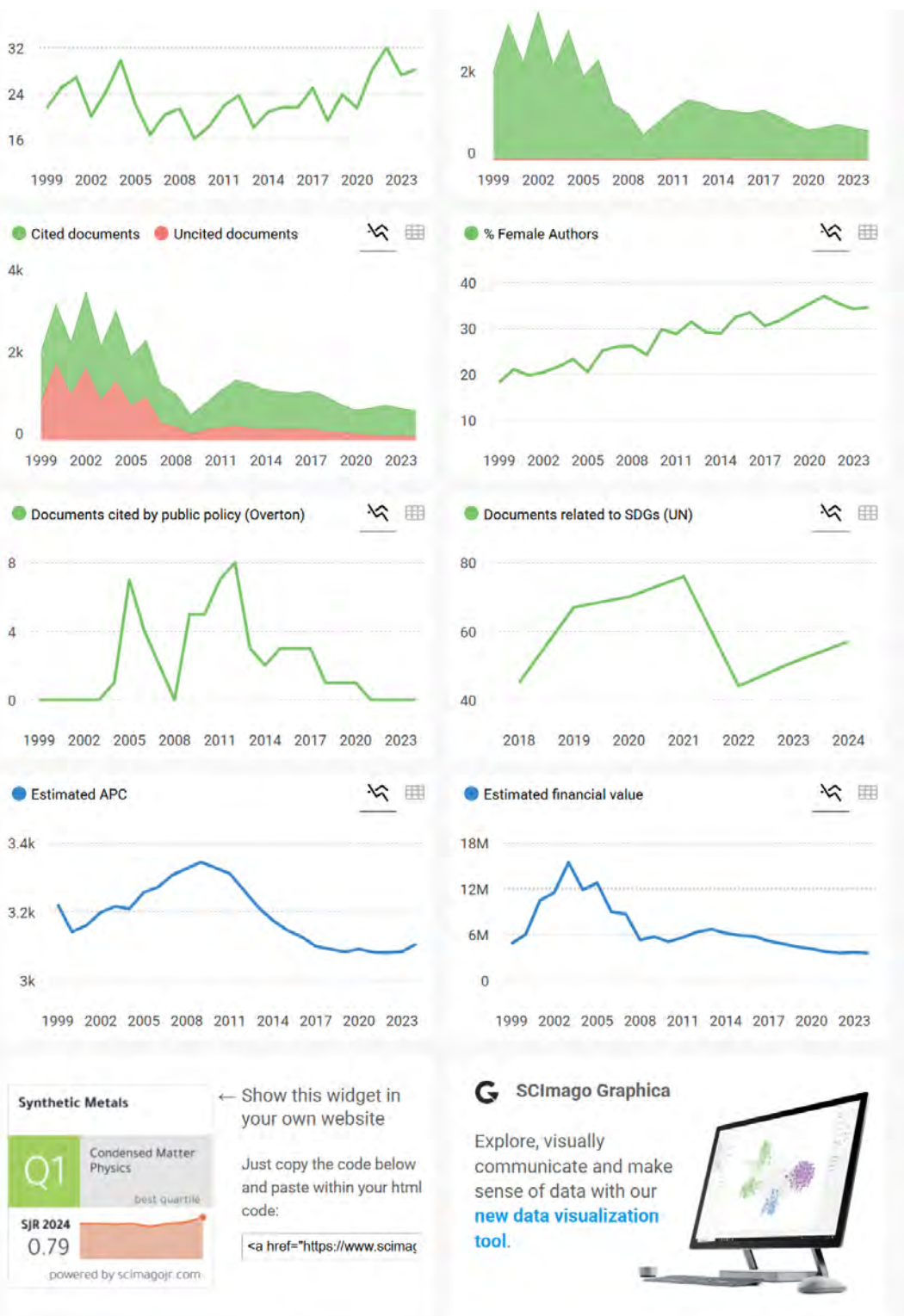
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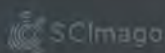


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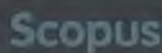
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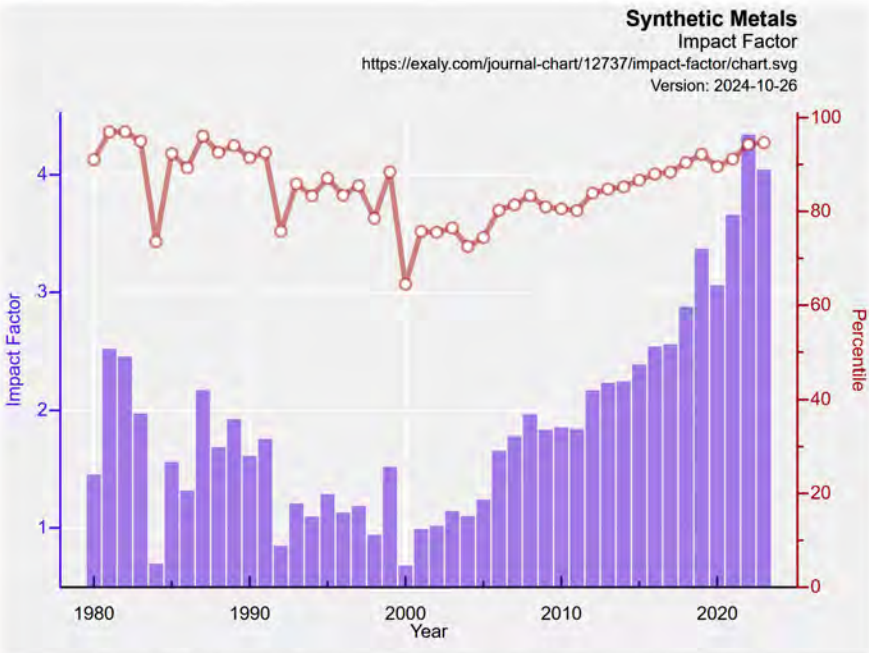
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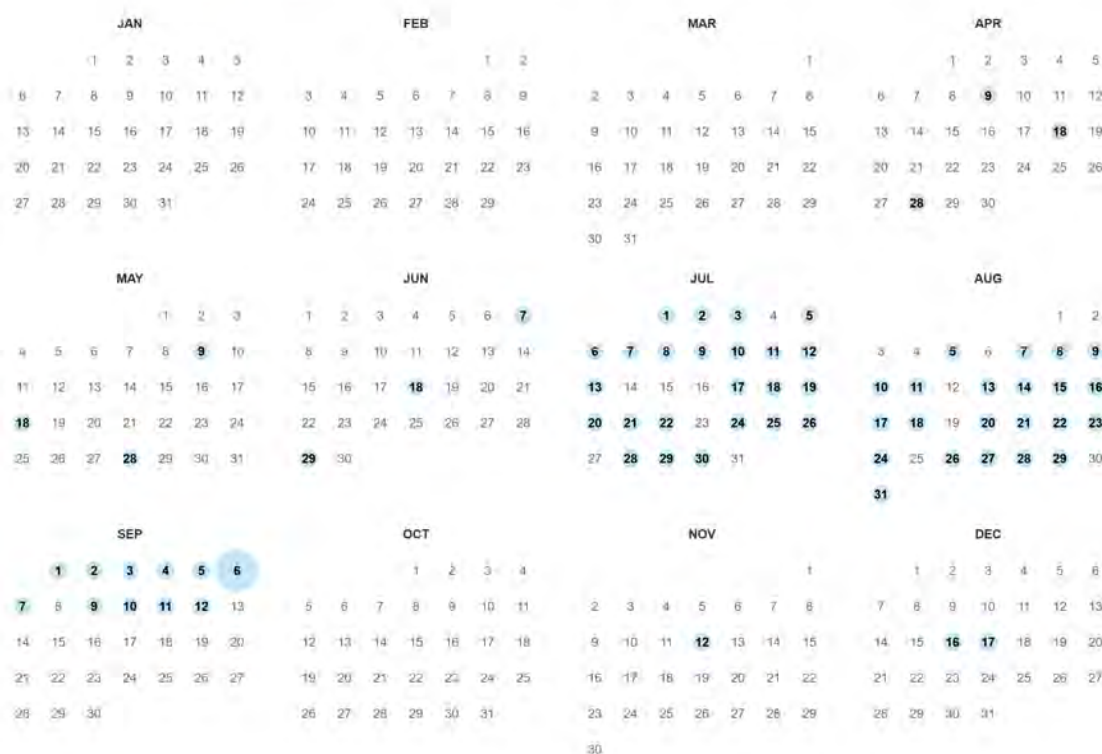
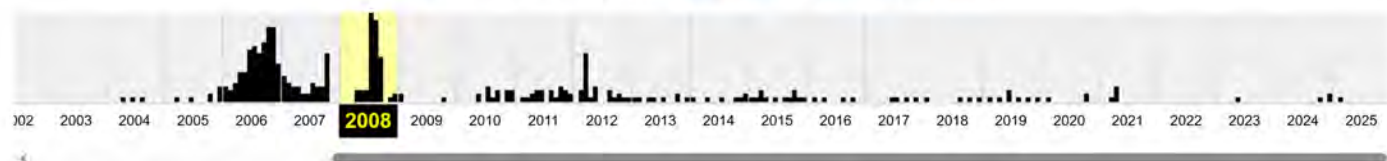
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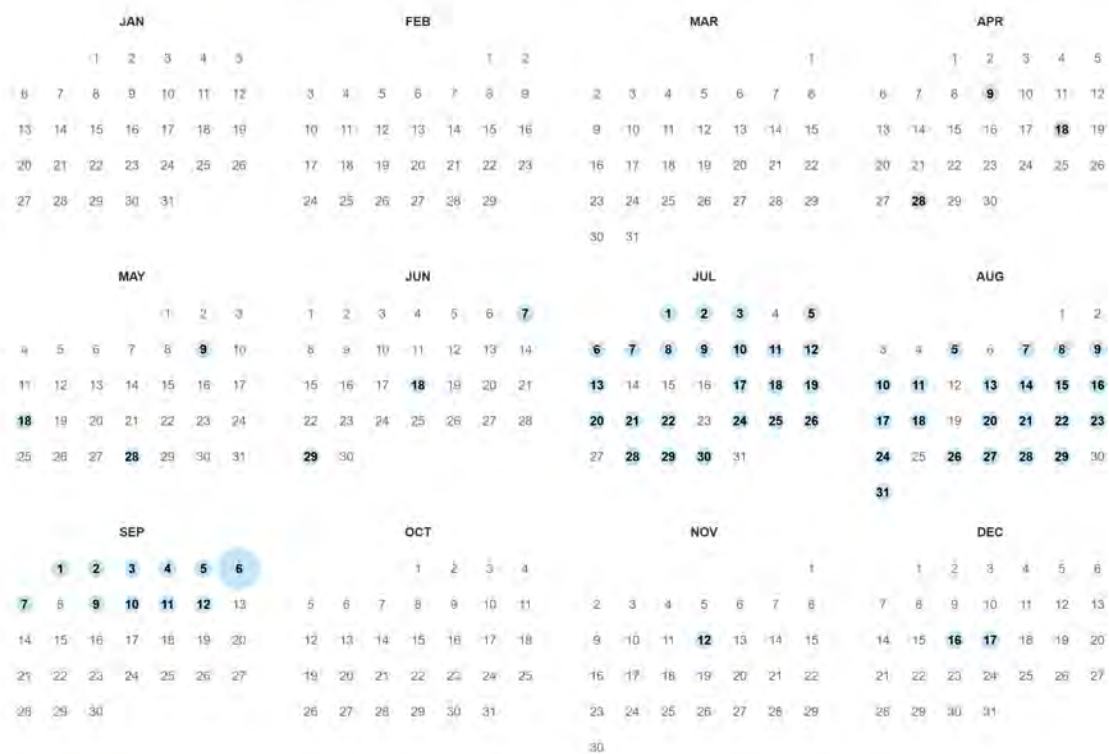
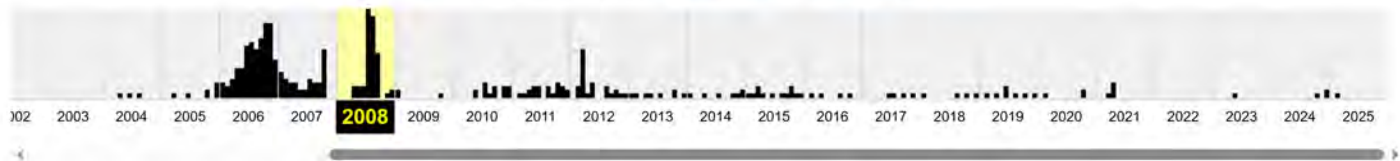
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Research article

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Synthetic Metals, December 2008

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Biosensors and Bioelectronics, 15 September 2008

Fengna Xi, Lijun Liu, ... Xianfu Lin

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Synthesis and characterization of nanocrystalline La₂Mo₂O₉ fast oxide-ion conductor by an in-situ polymerization method

Materials Research Bulletin, 6 May 2008

A. Subramania, T. Saradha, S. Muzhumathi

Research article

The mechanism of conductivity enhancement in poly(3,4-ethylenedioxythiophene)–poly(styrenesulfonic) acid using linear-diol additives: Its effect on electrochromic performance

Thin Solid Films, 1 September 2008

M. Fabretto, C. Hall, ... P. Murphy

Research article ● Open access**Synthesis and Characterization of LiMXFe₁-XPO₄ (M = Cu, Sn; X = 0.02) Cathodes - A study on the Effect of Cation Substitution in LiFePO₄ Material**

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N. Jayaprakash, N. Kalaiselvi, P. Periasamy

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C. S. Spiegel, R. Agarwal, S. Bhansali

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Desalination, 25 January 2008

K. Vijayaraghavan, Desa Ahmad, Ahmad Yuzri Ahmad Yazid

Research article

Electrolytic treatment of Standard Malaysian Rubber process wastewater

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Krishnan Vijayaraghavan, Desa Ahmad, Ahmad Yuzri Ahmad Yazid

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Organic light-emitting diodes based on new n-doped electron transport layer

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Research article

Ionic conductivity of polymeric nanocomposite electrolytes based on poly(ethylene oxide) and organo-clay materials

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Synthesis and characterization of LiFePO₄/(C+Fe₂P) composite cathodes

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Hui Liu, Jingying Xie, Ke Wang

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Farid A. Harraz, M. S. Salem, ... Y. H. Ogata

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Kai Feng, Yao Shen, ... Xun Cai

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Electrical characterization of suspended Pt nanowires grown by EBID with water vapour assistance

Microelectronic Engineering, May-June 2008

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Keiichi Minami, Fuminori Mizuno, ... Masahiro Tatsumisago

Research article

Radiofrequency hepatic ablation with internally cooled electrodes and hybrid applicators with distant saline infusion using an in vivo porcine model

European Journal of Surgical Oncology (EJSO), July 2008

F. Burdío, A. Navarro, ... L. Grande

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A novel method to prepare polymer electrolyte based on thermoplastic polyurethane and its antistatic composites

Journal of Electrostatics, November 2008

Jiliang Wang, Wanqing Yang, Jingxin Lei

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High-throughput studies of Li_{1-x}Mgx/2FePO₄ and LiFe_{1-y}MgyPO₄ and the effect of carbon coating

Journal of Power Sources, 1 May 2008

Matthew R. Roberts, Girts Vitins, John R. Owen

Short communication

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Kangli Wang, Kai Jiang, ... George Z. Chen

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Conductivity of silver paste prepared from nanoparticles

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GaN-based light-emitting diode with ZnO nanotexture layer prepared using hydrogen gas

Applied Surface Science, 15 August 2008

Lung-Chien Chen, Cheng-Ban Chung

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Electrochemistry Communications, March 2008

Raju Khan, Marshal Dhayal

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Fuel Cells Bulletin, October 2008

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Physica E: Low-dimensional Systems and Nanostructures, May 2008

Alberto Ansaldi, Viera Skakalova, ... Siegmund Roth

Research article

Thermal characteristics of heat-treated aluminum high-pressure die-castings

Scripta Materialia, June 2008

R. N. Lumley, I. J. Polmear, ... J. Ferrier

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Synthesis and photoluminescence characterization of Ca₃Si₂O₇:Eu²⁺ as a potential green-emitting white LED phosphor

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SLAS Technology, February 2008

Yamini Yadav, SudhaPrasanna Kumar Padigi, ... Xiaoyu Song

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Electrical and electrochemical properties of the $70\text{Li}_2\text{S}-(30-x)\text{P}_2\text{S}_5-x\text{P}_2\text{O}_5$ glass-ceramic electrolytes

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M. S. B. Darby, T. C. May-Smith, ... K. D. Rogers

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Gas selectivity measurements as a diagnostic tool for fuel cells

Journal of Power Sources, 1 June 2008

Sumit Kundu, Michael W. Fowler, Leonardo C. Simon

Research article

Mechanical behaviors of Al₂O₃ nanoparticles reinforced polyetheretherketone

Materials Science and Engineering: A, 25 September 2008

Pan Guoliang, Guo Qiang, ... He Zhiqiang

Research article

Conductive graphite/polyurethane composite films using amphiphilic reactive dispersant: Synthesis and characterization

Journal of Industrial and Engineering Chemistry, March 2008

Geoffrey Otieno, Ju-Young Kim

Research article

Influences of doping approach on conductivity of composite alkaline solid polymer electrolyte PVA-HA-KOH-H₂O

Electrochimica Acta, 1 June 2008

Shangbin Sang, Qiumei Wu, Zhen Gan

Research article

Performance of Gd-doped Ti-based Sb-SnO₂ anodes for electrochemical destruction of phenol

Chemosphere, February 2008

Yujie Feng, Yuhong Cui, ... Zhengqian Liu

Research article

Joining of highly aluminum-doped lanthanum strontium manganese oxide with tetragonal zirconia by plastic deformation

Solid State Ionics, 30 June 2008

John V. Spirig, Jules L. Routbort, ... Prabir K. Dutta

Research article

Substituting the postproduction treatment for bulk-heterojunction solar cells using chemical additives

Organic Electronics, October 2008

Almantas Pivrikas, Philipp Stadler, ... Niyazi Serdar Sariciftci

Research article

Influence of micro-porous layer and operating conditions on the fluoride release rate and degradation of PEMFC membrane electrode assemblies

Journal of Power Sources, 1 May 2008

Sumit Kundu, Kunal Karan, ... Ela Halliop

Research article

KOH activated lignin based nanostructured carbon exhibiting high hydrogen electrosorption

Research article

Focused ion beam (FIB) etching to investigate aluminium-coated polymer laminates subjected to heat and moisture loads

Surface and Coatings Technology, 15 August 2008

S. Brunner, P. J. Tharian, ... K. Ghazi Wakili

Research article

Surface smoothness and conductivity control of vapor-phase polymerized poly(3,4-ethylenedioxythiophene) thin coating for flexible optoelectronic applications

Thin Solid Films, 31 July 2008

Thuy Le Truong, Dong-Ouk Kim, ... Jae-Do Nam

Research article

Carbon nanotubes increase the electrical conductivity of fibroblast-seeded collagen hydrogels

Acta Biomaterialia, November 2008

Rebecca A. MacDonald, Christopher M. Voge, ... Jan P. Stegemann

Research article

Progress in the US DOE fuel cell subprogram efforts in polymer electrolyte fuel cells

International Journal of Hydrogen Energy, July 2008

Jason Marcinkoski, John P. Kopasz, Thomas G. Benjamin

Research article

Simultaneous improvements in the cryogenic tensile strength, ductility and impact strength of epoxy resins by a hyperbranched polymer

Polymer, 23 June 2008

Jiao-Ping Yang, Zhen-Kun Chen, ... Lin Ye

Research article

Synthesis, structure and electrochemistry of Ag-modified LiMn₂O₄ cathode materials for lithium-ion batteries

Materials Research Bulletin, 4 August–4 September 2008

Wen-Jia Zhou, Ben-Lin He, Hu-Lin Li

Research article

Enhanced sensitivity for Cu(II) by a salicylidine-functionalized polysiloxane carbon paste electrode

Talanta, 15 August 2008

Hazem M. Abu-Shawish, Salman M. Saadeh, Ahmad R. Hussien

Research article

Thin layer in situ XRD of electrodeposited Ag/Sn and Ag/In for low-temperature isothermal diffusion soldering

Intermetallics, August 2008

Bernhard Gollas, Jörg H. Albering, ... Johannes Etzkorn

Research article

Polypyrrole as a protective pigment in organic coatings

Synthetic Metals, December 2008

M. Selvaraj, S. Palraj, ... G. Venkatachari

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Understanding the effect of calcium on the properties of ceria prepared by a mixed fuel process

Solid State Ionics, July 2008

Suparna Banerjee, Parukuttyamma Sujatha Devi

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Solid state double layer capacitor based on a polyether polymer electrolyte blend and nanostructured carbon

black electrode composites

Journal of Power Sources, 1 March 2008

Rodrigo L. Lavall, Raquel S. Borges, ... Glauro G. Silva

Research article

Tailoring the structure of S-PEEK/PDMS proton conductive membranes through applied electric fields

Journal of Membrane Science, 1 September 2008

D. Liu, M. Z. Yates

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Recent advances in isotropic conductive adhesives for electronics packaging applications

International Journal of Adhesion and Adhesives, October 2008

Irfan Mir, D. Kumar

Research article

Synthesis and characterization of new ternary transition metal sulfide anodes for H₂S-powered solid oxide fuel cell

Journal of Power Sources, 15 August 2008

V. Vorontsov, J. L. Luo, ... K. T. Chuang

Research article

Performance and stability of composite nickel and molybdenum sulfide-based anodes for SOFC utilizing H₂S

Journal of Power Sources, 15 April 2008

V. Vorontsov, W. An, ... K. T. Chuang

Research article

High performance nitrile copolymers for polymer electrolyte membrane fuel cells

Journal of Membrane Science, 15 August 2008

Dae Sik Kim, Yu Seung Kim, ... Bryan S. Pivovar

Research article

Favourable influence of hydrophobic surfaces on protein structure in porous organically-modified silica glasses

Biomaterials, June 2008

Bouazid Menaa, Mar Herrera, ... Daryl K. Eggers

Research article

Influence of AlB₂ compound on elimination of incoherent precipitation in artificial aging of wires drawn from redraw rod extruded from billets cast of alloy AA-6101 by vertical direct chill casting

Materials & Design, 2008

Sedat Karabay

Research article

Degradation analysis and modeling of reinforced catalyst coated membranes operated under OCV conditions

Journal of Power Sources, 1 September 2008

Sumit Kundu, Michael W. Fowler, ... Natasha Beydokhti

Research article

Comparison of two accelerated Nafion™ degradation experiments

Polymer Degradation and Stability, January 2008

Sumit Kundu, Leonardo C. Simon, Michael W. Fowler

Review article

Strategies and results of field emission scanning electron microscopy (FE-SEM) in the study of parasitic protozoa

Micron, February 2008

Wanderley de Souza, Loraine Campanati, Marcia Attias

Discussion

Methods for improving electrically and thermally conductive adhesives: Properties of electronic parts can be

enhanced via tweaking adhesive formulations or introducing filler particles

Metal Finishing, 2008

No authors available

Review article

Chapter 7 Polymer Blend Miscibility

Annual Reports on NMR Spectroscopy, 2008

Jeffery L. White, Marcin Wachowicz

Research article

Parameter study of electrospinning of polyamide-6

European Polymer Journal, October 2008

Pirjo Heikkilä, Ali Harlin

Research article

Lithium dynamics in the zeolite-like lithosilicate RUB-29 and its high-temperature structure after dehydration (Cs₁₄Li₄₂Si₇₂O₁₇₂)

Microporous and Mesoporous Materials, 1 February 2008

So-Hyun Park, John B. Parise, ... Carsten Paulmann

Book chapter

7: Specialty fibers from polyesters and polyamides

Polyesters and Polyamides, 2008

M. G. KAMATH, G. S. BHAT

Research article

Effect of hydrogen sulfide on the catalytic activity of Ni-YSZ cermets

Journal of Molecular Catalysis A: Chemical, 3 March 2008

John N. Kuhn, Nandita Lakshminarayanan, Umit S. Ozkan

Book chapter

6: Fuel Cells and Batteries

Fluorinated Ionomers, 2008

Walther Grot

Book chapter

7: Molten carbonate fuel cells

Materials for Fuel Cells, 2008

S McPHAIL, E SIMONETTI, ... R BOVE

Book chapter

4: Polymer electrolyte membrane fuel cells

Materials for Fuel Cells, 2008

C HARTNIG, LJÖRISSEN, ... J SCHOLTA

Book chapter

Chapter 7: Modalities, Methods and Techniques

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Leon Chaitow, Hal Brown, ... Nick Buratovich

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APPENDIX 17



WEB TEXTS VIDEO AUDIO SOFTWARE IMAGES

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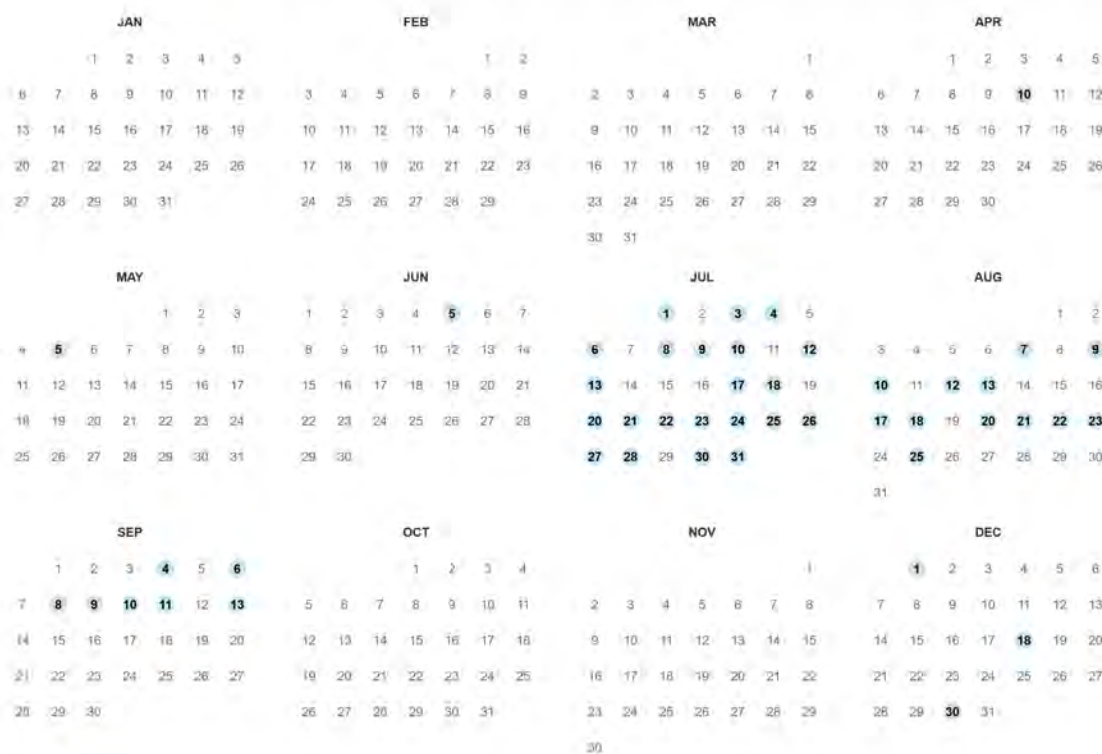


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Use these tips to get the best results from your search. We recommend that first time users of this website print these tips for use as a reference.

The Product Search allows you to search the information about all (about 24,000) Elsevier products that can be acquired. The All Elsevier Sites Search allows you to search the entire Corporate Website, excluding the Product information. In addition you will search through all Elsevier Marketing webpages and the online full texts of Elsevier Products. The News Search allows you to search through all News Items. The Job Search allows you to search through all available jobs at Elsevier.

General search tips

To perform a search, enter your keyword(s) in the box provided and click on the Search button. Use multiple words when possible. The more information you enter, the more specific and accurate your search results will be. You can make use of the Boolean operators **OR**, **AND**, **ANDNOT** between search terms:

▪ **AND** - your search results will contain all of your search terms. If you enter two search terms without any operator, the system will consider this an **AND** relation.

For example: *women AND health* will return results that contain both the words *women* and *health* in the text.

▪ **OR** - your search results will contain at least one of your search terms.

For example: *algebra OR trigonometry* will return results that either contain the word *algebra* or the word *trigonometry* or both in the text.

▪ **ANDNOT** - your search results will contain your first search term but not the latter.

For example: *forensic medicine ANDNOT legal medicine* will return results that contain the word *forensic medicine* in the text but not the word *legal medicine*.

Special operators

You can include various search operators to retrieve results that include specific characters, word roots, suffixes etc.

▪ **Wildcarding *** - The asterisk is a wildcard that can replace zero, one or more letters. Please enter a minimum of three letters of the relevant search term in front of the wildcard; you cannot use this wildcard in the middle of a search term.

For example: *bio** will return results that contain words like biology, biochemist, biomedical...

▪ **Parentheses ()** - Use parentheses to group complex Boolean phrases with more than two search terms.

For example: *(absorption or desorption) and gases* will return results with either the words *absorption of gases* or the words *desorption of gases* or both combinations in the text.

▪ **Quotes " and "** - Use these double quotes around the search terms when you want to search literally on a specific phrase and/or special characters.

For example: *"addictive behaviors"* returns results that contain this specific phrase in the text.

All Elsevier Sites Search

The "All Elsevier Sites Search" allows you to search the **entire Corporate Website**, excluding the Product information. The results will include information about jobs, news & events, the "About Elsevier" pages etc. On top of this, it also includes a search through **all Elsevier marketing webpages** and **all online available full texts** from Elsevier products.

At every page you can choose to use this search option.

The **full text search** results are powered by the scientific search engine Scirus and will be presented in a separate browser window. These results will only be selected from all online available full texts from Elsevier products (mainly journal articles).

Advanced Product Search

At the advanced product search page you are offered the opportunity to perform a more detailed search through the information about approx. 24,000 Elsevier products. You can decide to use one or more of the options offered at this page.

▪ The search box **keyword** allows you to enter one or more keywords or search terms, based on the above mentioned [General search tips](#)

▪ The search box **Publication title** allows you to search through the official **publication titles only**, based on the above mentioned General Search Tips.

For example: *gene* returns results from products that have literally this word in the official title or subtitle.

▪ The search box **Author (books only) or Editor** allows you to search through all the **authors and editors only** of all the book publications and the editors of journals. Note that you only search through the authors of books and not for authors of specific journal articles.

For example: *rassi* returns results about the books Z. El Rassi has been author of, but it will not return the results about the journal articles he has been author of. These journal articles can be found with the full text search powered by [Scirus](#)

▪ The search box **ISBN/ISSN** allows you to search for a publication with a specific ISBN or ISSN.

For example: *0444826165* returns the book Corrosion Atlas from During.

▪ The boxes under the heading **'Publication Date' (for books only)** allows you to limit your search to book products specific period. You can click on the preferred year(s). As only books have specific publication dates, this setting only refers to books.

For example: *'After 1998'* returns results about books published since 1998 up until this moment.

Another Example: *'After December 1999' and 'Before January 2001'* returns results about books published in 2000.

In the second half of the page you can limit your search to one or more specific subject or **scientific areas** and to one or more specific publication or **product types**.

In certain cases, a publication could be cross-disciplinary and therefore logically classified in more than one area. If you are unsure of how the publication you are looking for has been classified we suggest you select **all relevant subject areas** to ensure the best and most complete results. You can do so by making use of the standard windows combination of holding down the Control-key and clicking through the relevant subject areas.

To get the best results from your query we recommend that you refine your search as specifically as possible.

For example: Products about Plant Sciences can be classified under Agricultural and Biological Sciences and/or Chemistry and Chemical Engineering, therefore all of these subject areas should be selected for the most complete results.

The button '**Clear Fields**' allows you to completely start again defining your search query.



Product Search Results

The Product Search Results page presents you with all the available Elsevier products that match your search query.

Under 'You searched for..' your search query is displayed, which allows you to check the search query you entered. In case the search query needs to be amended, you can adapt the search query by clicking at the button '**Search again**' at the right hand side of the screen which brings you to the Advanced Product Search page.

The results page of the search for products only displays **for each hit** in the result listing:

- The title of the product
- The type of publication
- A link to the related page 'Highlight Search Terms', showing the reasons why you have found this product
- For books it displays also if available, the publication date and the Author name (s)
- The number it has in the listing

This result page also offers the opportunity to see (**show**) **only part of the results** based on the publication or product type. By default all products are listed.

And you can also determine the **sorting order of the result listing**.

- The products are displayed (by default) in order of **relevance** to the search query, the product with the highest relevance appearing at the top of the list.
- The **Title** option displays the results alphabetically according to the product titles.
- The **Publication Date (books only)** option sorts the products according to the publication date, the most recent books on top. As publication dates are only relevant for books, this option sorts only the books in the result listing and displays all other publications beneath.
- The **Author (books only), editor** option displays the products alphabetically sorted according to author name (books only) or editor name (journals).

When the result listing becomes too long the row at the bottom, with the words **previous 25** and **next 25**, allows you to navigate to the next or previous page or series of the results, ordered and filtered in the same way as in the page itself.

This mechanism also allows you to jump more than one page or series at a time through the result listing by clicking one of the page numbers indicated.



Job Search

You can [search for jobs](#) at Elsevier by entering a search term in the search box. You will search through all available information about the available jobs.

You can also choose a specific **location of interest** from the list of locations where Elsevier has offices around the world.

For example: entering the word "author" returns job descriptions that contain the word author.

The button '**Clear Fields**' allows you to completely start again, from scratch, re-defining your search query.



Job Search Results

The Job Search Results page presents all job vacancies at Elsevier that match the search query you entered.

For each job vacancy the following pieces of information are displayed in the result listing:

- **Job title:** this is the official title of the job vacancy
- **Date Posted:** this is the official date that the job vacancy was posted on this website
- **Location:** this is the location where the job vacancy is available

The job vacancies listing can be **limited to one specific location**, by choosing the preferred location from the listing under 'Only show jobs at (location)'.

The **sorting order** for job vacancies is, by default, numerically based according to "Date Posted". If you prefer, you can sort the listing alphabetically, according to the official job titles.

Results are presented in clusters of 20. If more than 20 jobs match the search query, the result list is divided into multiple pages of maximum 20 job vacancies. More navigation through the jobs search results is offered by the clickable words **previous 20** and **next 20** at the bottom of the page.

This mechanism at the bottom of the page also allows you to jump immediately more than one page or series at a time through the result listing by clicking one of the page numbers indicated.



News Search

You can search from this page for news items and events about the company, about products, about events, etc.

In the search box **Keywords** you can enter one or more search terms with the help of the [General search tips](#).

You can limit the news search to one or **more specific types of news items**.

If you are unsure where the news item you are looking for has been classified, we suggest you select all **relevant subject areas** to ensure the best and most complete results. You can do so by making use of the standard windows combination of the Control-key and a click at the relevant subject areas.

To get the best results from your query we recommend that you refine your search as specifically as possible.

For example: News items about Plant Sciences can be classified under Agricultural and Biological Sciences and/or Chemistry and Chemical Engineering, therefore all of these subject areas should be selected for the most complete results.

The boxes under the heading 'Searching for news and events from a specific period' allow you to limit your search to **news items published in a specific period**. You can click on the preferred month(s) and year(s).



Dispatch Dates Search

On this page, you can search for Dispatch Dates of journals.

In the search box you can enter one or more search terms with the help of the [General search tips](#).

You can search with (parts of) the **journal title or subtitle** and with the **ISSN** of the relevant journal(s).

For example: 'artificial' offers you the list of journals with 'artificial' in the (sub)title and the relevant Dispatch Dates.

The result listing also allows you to **adapt the sorting order** of the journals. By default, the journals are listed alphabetically based on their title; you can also sort the listing numerically based on the ISSN, lowest number on top.



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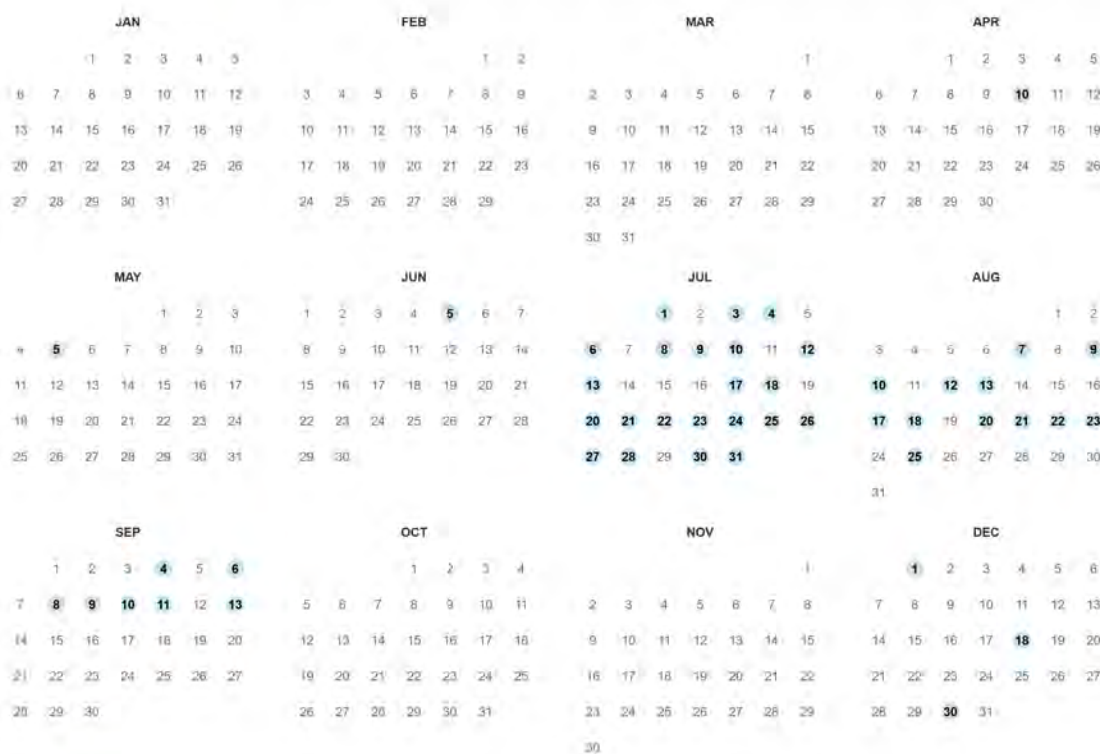


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The button '**Clear Fields**' allows you to completely start again, from scratch, re-defining your search query.



Job Search Results

The Job Search Results page presents all job vacancies at Elsevier that match the search query you entered.

For each job vacancy the following pieces of information are displayed in the result listing:

- **Job title:** this is the official title of the job vacancy
- **Date Posted:** this is the official date that the job vacancy was posted on this website
- **Location:** this is the location where the job vacancy is available

The job vacancies listing can be **limited to one specific location**, by choosing the preferred location from the listing under 'Only show jobs at (location)'.

The **sorting order** for job vacancies is, by default, numerically based according to "Date Posted". If you prefer, you can sort the listing alphabetically, according to the official job titles.

Results are presented in clusters of 20. If more than 20 jobs match the search query, the result list is divided into multiple pages of maximum 20 job vacancies. More navigation through the jobs search results is offered by the clickable words **previous 20** and **next 20** at the bottom of the page.

This mechanism at the bottom of the page also allows you to jump immediately more than one page or series at a time through the result listing by clicking one of the page numbers indicated.



News Search

You can search from this page for news items and events about the company, about products, about events, etc.

In the search box **Keywords** you can enter one or more search terms with the help of the [General search tips](#).

You can limit the news search to one or more **more specific types of news items**.

If you are unsure where the news item you are looking for has been classified, we suggest you select all **relevant subject areas** to ensure the best and most complete results. You can do so by making use of the standard windows combination of the Control-key and a click at the relevant subject areas.

To get the best results from your query we recommend that you refine your search as specifically as possible.

For example: News items about Plant Sciences can be classified under Agricultural and Biological Sciences and/or Chemistry and Chemical Engineering, therefore all of these subject areas should be selected for the most complete results.

The boxes under the heading 'Searching for news and events from a specific period' allow you to limit your search to **news items published in a specific period**. You can click on the preferred month(s) and year(s).



Dispatch Dates Search

On this page, you can search for Dispatch Dates of journals.

In the search box you can enter one or more search terms with the help of the [General search tips](#).

You can search with (parts of) the **journal title or subtitle** and with the **ISSN** of the relevant journal(s).

For example: 'artificial' offers you the list of journals with 'artificial' in the (sub)title and the relevant Dispatch Dates.

The result listing also allows you to **adapt the sorting order** of the journals. By default, the journals are listed alphabetically based on their title; you can also sort the listing numerically based on the ISSN, lowest number on top.



 [Printer-friendly version](#)

APPENDIX 19



WEB TEXTS VIDEO AUDIO SOFTWARE IMAGES

SIGN UP | LOG IN | UPLOAD

Search

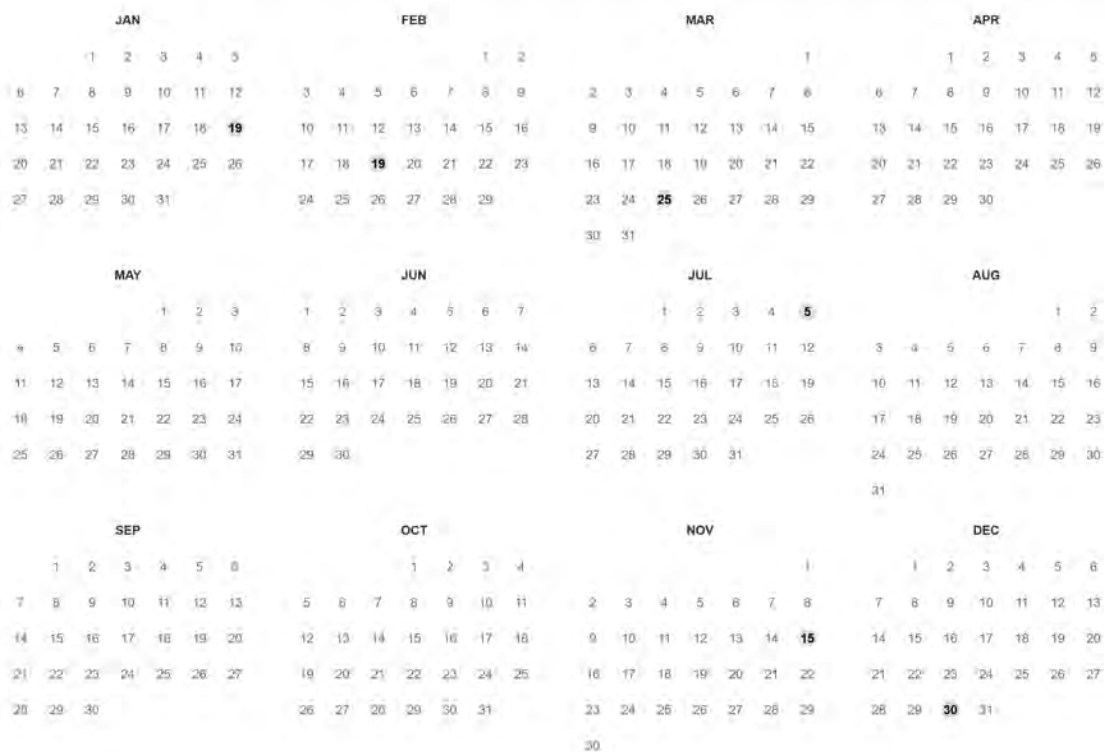
ABOUT BLOG PROJECTS HELP DONATE CONTACT JOBS VOLUNTEER PEOPLE



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Note

This calendar view maps the number of times http://www.libraries.psu.edu/eres/PSU_azdesc.html was crawled by the Wayback Machine, *not* how many times the site was actually updated. More info in the [FAQ](#).

[FAQ](#) | [Contact Us](#) | [Terms of Service](#) (Dec 31, 2014)

The Wayback Machine is an initiative of the Internet Archive, a 501(c)(3) nonprofit building a digital library of Internet sites and other cultural artifacts in digital form. Other projects include Open Library & archive.org.

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Internet Archive Wayback Machine 25 captures 26 Oct 2007 - 31 Jul 2016

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University Libraries Home > Databases

Database Descriptions

Alphabetical List A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

19th Century Newspapers, British Library Collection

The 19th Century British Library Newspapers collection contains full runs of 48 newspapers specially selected by the British Library to best represent nineteenth century Britain. This new collection includes national and regional newspapers, as well as those from both established country or university towns and the new industrial powerhouses of the manufacturing Midlands, as well as Scotland, Ireland and Wales. Special attention was paid to include newspapers that helped lead particular political or social movements such as Reform, Chartism, and Home Rule. The penny papers aimed at the working and clerical classes are also present in the collection. Can be cross-searched with the Burney Collection of 17th and 18th Century newspapers.

[Go to 19th Century Newspapers, British Library Collection](#)

ABELL (Annual Bibliography of English Language and Literature)

Coverage of monographs, periodical articles, critical editions of literary works, book reviews, collections of essays, and doctoral dissertations published anywhere in the world from 1920 onwards. Includes links to the full text of 120 journals.

[Go to ABELL \(Annual Bibliography of English Language and Literature\)](#)

ABI/INFORM Complete

Search a complete database comprising full-text business periodicals and news sources from ABI/INFORM Global, Dateline, and Trade & Industry

[Go to ABI/INFORM Complete](#)

ABSEES (American Bibliography of Slavic and East European Studies)

American Bibliography of Slavic & Eastern European Studies (ABSEES), produced by the University of Illinois at Urbana-Champaign, provides information on East-Central Europe and the former Soviet Union. Some of the many subjects covered include: anthropology, culture & the arts, economics, education, and geography. Sources indexed include journals, books, dissertations, online resources and selected government publications published in the U.S. and Canada.

[Go to ABSEES \(American Bibliography of Slavic and East European Studies\)](#)

ACCESS PA

The ACCESS PA Database is a world wide web-based bibliographic union catalog and resource sharing guide to over 2,500 school, public, academic and special libraries in Pennsylvania. The database contains over 5.6 million unique records from the catalogs of Pennsylvania library collections covering over 35 million Pennsylvania library holdings.

[Go to ACCESS PA](#)

Access Science (McGraw-Hill Encyclopedia of Science & Technology)

Online access to the ninth edition of the McGraw Hill Encyclopedia of Science & Technology plus these special features: New trends and developments in science and technology ("Research Updates") from the McGraw-Hill Yearbooks of Science & Technology ##Access to 110,000+ definitions from The McGraw-Hill Dictionary of Scientific & Technical Terms ##Biographies of scientists ##Links to evaluated related websites ##Image gallery of various scientific phenomena ##Subject areas covered include agriculture, anthropology, astronomy, biomedical science, chemistry, computing and information technology, earth science, engineering, food science, mathematics, military science, paleontology, physics, psychiatry, psychology, and veterinary science.

[Go to Access Science \(McGraw-Hill Encyclopedia of Science & Technology\)](#)

Accessible Archives

Accessible Archives provides access to the full texts of articles from a selection of 18th & 19th century American newspapers (more than 175,000 articles). The newspapers selected are especially useful for researching African American, women's studies, and Pennsylvania topics but can also help with many other types of historical research. ##Keywords: Civil War, colonial, revolution, Revolutionary War, abolition, abolitionists, slavery.

[Go to Accessible Archives](#)

AccessUN

AccessUN is an index to United Nations documents and publications, from 1966 to date. The database is used to access the microfiche collection held in the Social Sciences Library, Second Floor, West Pattee. ##Indexes: ##Working documents of the main UN bodies including the General Assembly, Security Council, Economic and Social Council, commissions, UN conferences, and regional bodies ##Sales publications ##Articles in UN periodicals ##Full text: ##Resolutions from the General Assembly (1981-), the Security Council (1974-), and the Economic and Social Council (1982-). ##Selected meetings containing voting records

[Go to AccessUN](#)

ACM Digital Library

Full text of every article ever published by ACM.

[Go to ACM Digital Library](#)

ACS E-Journals (chemistry)

Provides full text access to over twenty American Chemical Society journals.

[Go to ACS E-Journals \(chemistry\)](#)

Advertising Law Guide

Includes full-text reports of state and federal laws and regulations, industry self-regulating guidelines, and new developments. Also includes explanatory notes to help interpret the law and explanations by authors with expertise in advertising, marketing, and intellectual property issues.

Get Help

ASK! a Librarian
(chat, email, phone)
How Do I?
Tutorials
Site Index
More...



Information and Services

For Students
For Faculty, Instructors, and Staff
For Visitors
For Off-Campus Users
For Persons with Disabilities
For Alumni

Aerospace + High Technology Database

The Aerospace Database provides bibliographic coverage of basic and applied research in aeronautics, astronautics, and space sciences. The database also covers technology development and applications in complementary and supporting fields such as chemistry, geosciences, physics, communications, and electronics. In addition to periodic literature, the database also includes coverage of reports issued by NASA, other U.S. government agencies, international institutions, universities, and private firms. Coverage: 1962-present

 [Go to Aerospace + High Technology Database](#)

African American Poetry

A database of modern and contemporary African American poetry, featuring thousands of poems by some of the most important African American poets of the last century, including Langston Hughes, Jean Toomer, Imamu Amiri Baraka, Audre Lorde and Rita Dove.

 [Go to African American Poetry](#)

AGRICOLA Articles

AGRICOLA contains references for journal articles, book chapters, audiovisuals, and other agricultural resources. These resources encompass all aspects of agriculture such as animal and veterinary sciences including poultry and dairy, entomology, plant sciences such as horticulture, crop and soil science, and plant pathology, forestry, aquaculture and fisheries, farming and farming systems, rural and community development, agricultural economics, extension and education, food and human nutrition, food science, agricultural engineering, and earth and environmental sciences. Also indexes publications from USDA, State Experiment Stations, and State Extension Services.

 [Go to AGRICOLA Articles](#)

AGRICOLA Books

The NAL Online Public Access Catalog (AGRICOLA Books) contains citations to books, audiovisuals, serials, and other materials, most of which are in the USDA's National Agricultural Library in Beltsville, MD. These resources encompass all aspects of agriculture such as animal and veterinary sciences including poultry and dairy, entomology, plant sciences such as horticulture, crop and soil science, and plant pathology, forestry, aquaculture and fisheries, farming and farming systems, rural and community development, agricultural economics, extension and education, food and human nutrition, food science, agricultural engineering, and earth and environmental sciences.

 [Go to AGRICOLA Books](#)

Agropedia (agriculture encyclopedias)

A collection of agriculture encyclopedias, including: Encyclopedia of Animal Science; Encyclopedia of Plant & Crop Science; Encyclopedia of Agricultural, Food, & Biological Engineering; Encyclopedia of Water Science; Encyclopedia of Soil Science; and Encyclopedia of Pest Management.

 [Go to Agropedia \(agriculture encyclopedias\)](#)

AGU E-Journals

The American Geophysical Union (AGU) is devoted to the scientific study of Earth and its environment. The AGU focuses its research in four fundamental areas: atmospheric and ocean sciences; solid-Earth sciences; hydrologic sciences; and space sciences. This resource provides access to the fulltext of six AGU journals: the Journal of Geophysical Research (JGR), Geophysical Research Letters, Global Biogeochemical Cycles, G-Cubed (Geochemistry, Geophysics, Geosystems), Paleoceanography, Reviews of Geophysics, Tectonics, and Water Resources Research. Coverage is from 1994 to date.

 [Go to AGU E-Journals](#)

AIAA Online Publications (aerospace engineering)

This resource provides access to the full text of all articles and technical papers published since 2001 by the American Institute of Aeronautics and Astronautics (AIAA).

 [Go to AIAA Online Publications \(aerospace engineering\)](#)

AIDSearch

AIDSearch (MEDLINE AIDS/HIV Subset, AIDSTRIALS & AIDSDRUGS) A combination of three database files providing information about Acquired immunodeficiency syndrome (AIDS) and related topics. All records must be identified as being derived from NLM databases. --- AIDSDRUGS is a dictionary of chemical and biological agents currently being evaluated in the AIDS clinical trials covered in companion AIDSTRIALS database. ---MEDLINE AIDS/HIV Subset includes citations from journal articles, government reports, letters, technical reports, meeting abstracts/papers, monographs, special publications, theses, books and audiovisuals covering research, clinical aspects and health policy issues related to AIDS. ---AIDSTRIALS includes information about the clinical trials of substances being tested for use against AIDS, HIV infection, and AIDS-related opportunistic diseases.

 [Go to AIDSearch](#)

AIP & APS E-Journals (physics)

Full text access to American Institute of Physics and American Physical Society electronic journals. See also IOP E-Journals (physics) for more full text physics journals.

 [Go to AIP & APS E-Journals \(physics\)](#)

Air University Library's Index to Military Periodicals

A subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The Index contains citations since 1988 and is updated continuously.

 [Go to Air University Library's Index to Military Periodicals](#)

Aluminium Industry Abstracts

Provides coverage of the world's technical literature on aluminum, ranging from ore processing through applications. The Aluminium Industry Abstracts database includes information abstracted from approximately 2,300 scientific and technical journals, government reports, conference proceedings, dissertations, books, and patents. All aspects of the aluminum industry, aside from mining, are covered.

 [Go to Aluminium Industry Abstracts](#)

America: History and Life

Search for articles on all aspects of the history of the United States and Canada from prehistory to the present. Articles from national, state and local historical journals are covered, as well as historical articles in major humanities and social science journals. Also includes citations to reviews, books, and dissertations. ##Keywords: African-American, Afro-American, Black, Hispanic, Latino, Colonial, Pennsylvania, Native Americans, women, gender, revolution, revolutionary war, civil war, Vietnam War, Cold War, World War I, World War II, Immigration, Immigrants, labor, agriculture, culture, society, politics, religion, economic, military, historiography.

 [Go to America: History and Life](#)

American Broadside and Ephemera

Based on the American Antiquarian Society's collection this database offers fully searchable facsimile images of approximately 15,000

broad­sides printed between 1820 and 1900, and 15,000 pieces of ephemera printed between 1760 and 1900. Broad­sides range from con­tem­porary ac­counts of the Civil War, un­usual oc­curences and nat­ural dis­as­ters to of­fi­cial gov­ern­ment pro­clama­tions, tax bills and town meet­ing re­ports. Ephemera in­clude early trade cards, the­ater play­bills, stock cer­ti­fi­cates, men­us and in­vi­ta­tions, pop­u­lar songs and music, and po­etry. American Broad­sides and Ephemera can be searched as a single col­lec­tion, or com­bined with other re­sources in the Archive of Americana.

 [Go to American Broad­sides and Ephemera](#)

American Drama

Con­tain­ing more than 1,500 dramatic works from the early eighteenth cen­tu­ry up to the be­gin­ning of the twen­ti­eth, American Drama 1714-1915 re­flects American dramatic writing in all its rich­ness and di­ver­sity: plays in verse, farces, melodramas, minstrel shows, realist plays, frontier plays, tem­perance dia­logues and a range of other genres are re­pre­sen­ted. Major dramatists in­clude David Belasco, Rachel Crothers, Augustin Daly, Clyde Fitch, Edward Har­ri­gan, James Herne, William Dean Howells and Joaquin Miller.

 [Go to American Drama](#)

American Film Institute Catalog

The online American Film In­sti­tu­te (AFI) Catalog draws its con­tent from six printed vol­u­mes that doc­u­ment every American film from 1893 to 1970, cur­rently ex­clud­ing 1951-1960, which are cur­rently in pro­duc­tion. Search re­cords by key­words: film titles: cast, crew, and char­ac­ter names; sub­ject; genre; re­lease year and more. Most re­cords in­clude ex­ten­sive plot sum­maries.

 [Go to American Film In­sti­tu­te Catalog](#)

American Mathematical Society Journals

The AMS is de­voted to pub­lish­ing re­search mathe­mat­ics of high quality and sig­nif­i­cance in all areas of pure and ap­plied mathe­mat­ics. For jour­nals that ap­pear in dual elec­tronic and print for­mats, ar­ti­cles are posted in­di­vid­u­ally on the Web soon af­ter proof is re­turned from au­thors and be­fore ap­pear­ing in is­sues for the print prod­uct. The AMS also pub­lishes re­fereed elec­tronic-only jour­nals that re­ceive the same tim­ely post­ing that dual-format jour­nals re­ceive. Items in ar­ti­cle bi­bliog­ra­phies are linked to their re­views on MathSciNet when avail­able.

 [Go to American Mathe­mat­ical Society Jour­nals](#)

American Medical Association Journals (including JAMA)

The American Medical As­so­ciation JAMA & Ar­chives Jour­nals Web site in­cludes the full text of all jour­nals from Jan­u­ary 1998 for­ward, ab­stracts from 1975 for­ward, and tables of con­tents from as early as 1962 for­ward.

 [Go to American Medical As­so­ciation Jour­nals \(in­clud­ing JAMA\)](#)

American National Biography Online

The American National Biog­ra­phy Online offers por­trai­ts of more than 17,000 men and women -- from all eras and walks of life -- whose lives have shaped the na­tion. The online ver­sion re­pro­duces the full-text of the orig­inal 24 vol­u­me set pub­lished in 1999, with new and up­dated en­tries added reg­u­larly. The online edi­tion fea­tures thou­sands of il­lus­tra­tions, hyper­linked cross-refer­ences, links to select web sites, and pow­er­ful search ca­pac­i­ties.

 [Go to American Na­tional Biog­ra­phy Online](#)

American Periodicals Series, 1740-1900

Search a se­lec­tion of pe­ri­od­icals that first be­gan pub­lish­ing be­tween 1740 and 1900, in­clud­ing spe­cial in­terest and gen­eral mag­a­zines, lit­erary and pro­fes­sional jour­nals, chil­dren's and women's mag­a­zines, and many other his­tor­i­cally-signif­i­cant pe­ri­od­icals. Con­tains full-text of American mag­a­zines and jour­nals that orig­i­nated be­tween 1741 and 1900. Dig­i­tized page im­ages re­pro­duce the pub­lica­tions as they ap­peared when orig­i­nally pub­lished.

 [Go to American Pe­ri­od­icals Series, 1740-1900](#)

American Poetry

Over 40,000 poems by more than 200 American poets from the Co­lonial Pe­riod to the early twen­ti­eth cen­tu­ry.

 [Go to American Po­etry](#)

America's Historical Newspapers (1690-1922)

Readex's Early American News­pa­pers (1690-1922) is a unique, web­based archive of Americana that pro­vides a fas­ci­nat­ing glimpse into our na­tion's past. The Early American News­pa­per Col­lec­tion will fea­ture the im­ages and full-text con­tent from scores of his­tor­ical pub­lica­tions, per­fectly com­ple­ment­ing the Early American Im­prints series. Based on Clarence Brigham's History and Bi­bliog­ra­phy of American News­pa­pers, 1690-1820, this dig­i­tal col­lec­tion con­cen­trates pri­marily on those pa­pers that be­gan pub­lica­tion be­fore 1820. The core of the Readex col­lec­tion is formed by Isai­ah Thomas' own col­lec­tion of co­lonial and early na­tional pe­riod news­pa­pers and sup­ple­mented by nearly two mil­lion is­sues added by Thomas' suc­cessors at the American An­ti­quarian Society. Nu­merous other in­sti­tu­tions and his­tor­ical societies have con­tributed to the col­lec­tion in­clud­ing: the Boston Athenaeum, the Con­necticut His­tor­ical Society, the Con­necticut State Li­brary, the Li­brary Com­pany of Phila­del­phia, the Li­brary of Con­gress, the li­braries of uni­ver­si­ties such as Brown and Har­vard, and private col­lec­tions. This joint ef­fort led to the cre­ation of a his­tor­ical archive of mo­men­tous breadth and depth. Page im­ages are for­matted to al­low for easy view­ing, mag­ni­fi­ca­tion, print­ing and sav­ing.

 [Go to America's His­tor­ical News­pa­pers \(1690-1922\)](#)

America's News Magazines

America's News Mag­a­zines (NewsBank) pro­vides full-text ar­ti­cles from lead­ing mag­a­zines that pro­vide cov­erage and anal­y­sis of cur­rent events in a range of cat­e­gories in­clud­ing: news, busi­ness, en­ter­tain­ment, life­style, sci­ence and tech­nol­ogy, and sports. One easy-to-search in­ter­face is used for all titles. Paid ad­ver­tisements are ex­cluded.

 [Go to America's News Mag­a­zines](#)

America's Newspapers

Com­plete full-text con­tent of many Knight-Ridder and other news­pa­pers. This in­cludes a wide range of local and re­gional news­pa­pers, in­clud­ing the Centre Daily Times. Use this data­base to lo­cate news­pa­per ar­ti­cles re­lated to com­mu­nity events, schools, po­lit­ics, gov­ern­ment po­licies, cul­tural ac­tiv­ities, local com­pan­ies, state in­dus­tries, and peo­ple in the com­mu­nity. Paid ad­ver­tisements are ex­cluded.

 [Go to America's News­pa­pers](#)

AMS Journals

Search the jour­nals of the American Me­teorological Society (AMS).

 [Go to AMS Jour­nals](#)

Année philologique

L'Année Philologique is an ex­haus­tive in­dex of pe­ri­od­icals, books and es­says in clas­sics and clas­sical stud­ies. It cov­ers Greek and Latin lin­guistics and lit­erature and Greek and Roman ar­chaeol­ogy, his­tory, mythol­ogy, re­ligion, epi­graph­y, numismatics and palaeog­ra­phy. The data­base in­dexes over 1,500 jour­nals from 1969 to the pre­sent.

 [Go to Année philologique](#)

Annual Reviews

Since 1932, Annual Reviews has offered comprehensive, timely collections of critical reviews written by leading scientists. Annual Reviews volumes are published each year for 29 focused disciplines within the Biomedical, Physical, and Social Sciences.

 [Go to Annual Reviews](#)

Anthropology Plus

Anthropology Plus is the world's most comprehensive, focused index of bibliographic materials from the late 1800s to today in the fields of social, cultural, physical, biological, and linguistic anthropology; ethnology, archaeology, folklore, and material culture; and interdisciplinary studies. Beyond these disciplines, researchers and scholars in art history, demography, economics, genetics, geography, geology, history, psychology, religion, or sociology will all find relevant anthropological material. ##Anthropology Plus unites two premier indexes created in two hemispheres. The result is extensive, worldwide coverage of core journals plus local and lesser-known journals. Together, Harvard University's highly respected Anthropological Literature database and the United Kingdom's Anthropological Index (Royal Anthropological Institute) provide a uniquely broad and rich resource for education and research in anthropology and related fields

 [Go to Anthropology Plus](#)

AnthroSource

AnthroSource is a fully integrated information resource. ##Its powerful search engine makes precision research quick and easy. ##AnthroSource is more than a content collection. It is an evolving, interactive repository of research and communications tools designed to bring the most credible and relevant of anthropological scholarship together in one place and to support a strong community of scholars, teachers, and students in the field.

 [Go to AnthroSource](#)

Aquatic Sciences and Fisheries Abstracts (ASFA)

The Aquatic Sciences Collection provides comprehensive information on the science and technology of marine, freshwater, and brackish water organisms and environments from 1971 to the present. It monitors over 5,000 international serial publications, books, reports, conference proceedings, translations and limited distribution literature. The collection contains five files which can be searched individually: ##(1) Biological Sciences and Living Resources (1971 to date) ##(2) Ocean Technology, Policy & Non-Living Resources (1971 to date) ##(3) Aquatic pollution & Environmental Quality (1990 to date) ##(4) Marine Biotechnology Abstracts (1989 to date) ##(5) Aquaculture Abstracts (1984 to date) ##Coverage: 1971 to current. Updates: Monthly

 [Go to Aquatic Sciences and Fisheries Abstracts \(ASFA\)](#)

Archive of Americana

A family of primary source historical collections covering nearly three centuries of American History. The resources can be searched together or separately. Currently includes: American Broad-sides and Ephemera, Series I Broad-sides printed between 1820 and 1900 and ephemera printed between 1760 and 1900. Early American Imprints, Series I: Evans, 1639-1800 Books, pamphlets, broadsides and other imprints from the distinguished bibliography created by Charles Evans. Early American Imprints, Series II: Shaw-Shoemaker, 1801-1819 Bbooks, pamphlets, broadsides and other imprints listed in the distinguished bibliography by Ralph R. Shaw and Richard H. Shoemaker. America's Historical Newspapers Early American newspapers published between 1690 and 1922, including titles from all 50 present states.

 [Go to Archive of Americana](#)

ArchiveGrid

An index produced by the Research Libraries Group to finding aids and other descriptive information about the holdings of manuscript and archival collections in libraries and research institutions throughout the world

 [Go to ArchiveGrid](#)

Archives and Manuscripts - Guides to Archival Collections at Penn State

Annotated alphabetical list of EAD (Encoded Archival Description) finding guides to some of the archival and manuscript collections in the Special Collections Library, The Pennsylvania State University.

 [Go to Archives and Manuscripts - Guides to Archival Collections at Penn State](#)

Archives USA (manuscript collections)

This resource provides access to an integrated database of three major information resources (NUCMC--National Union Catalog of Manuscript Collections, NIDS--National Inventory of Documentary Resources in the United States, and DAMRUS--Directory of Archives and Manuscript Repositories in the United States). ArchivesUSA gives access to holdings and contact information of more than 4,400 repositories, and indexes to nearly 100,000 special collections. ##Coverage: Current edition, Updates: Continuous.

 [Go to Archives USA \(manuscript collections\)](#)

Armed Conflict Database

Covers international and internal conflicts, as well as terrorism. It provides an interactive source of information on 70 armed conflicts including terrorism, refugees, and returnees, Internally Displaced Persons (IDPs), weapons used and their flows, fatalities, costs (\$US), historical backgrounds, annual updates and timelines. Users can generate reports and download data as well as browse through year-by-year analyses and fact sheets online.

 [Go to Armed Conflict Database](#)

Art Abstracts

Indexing of 260 international art publications, including English-language periodicals, yearbooks, and museum bulletins, as well as periodicals published in French, Italian, German, Spanish, Japanese, Dutch, and Swedish.

 [Go to Art Abstracts](#)

Art and Archaeology Technical Abstracts

AATA Online is a comprehensive database of more than 100,000 abstracts of literature related to the preservation and conservation of material cultural heritage.

 [Go to Art and Archaeology Technical Abstracts](#)

Art Index Retrospective (1929-1984)

Indexing of 260 international art publications, including English-language periodicals, yearbooks, and museum bulletins, as well as periodicals published in French, Italian, German, Spanish, Japanese, Dutch, and Swedish.

 [Go to Art Index Retrospective \(1929-1984\)](#)

ARTbibliographies Modern

ARTbibliographies Modern (ABM) provides full abstracts of journal articles, books, essays, exhibition catalogs, PhD dissertations, and exhibition reviews on all forms of modern and contemporary art, with approximately 12-13,000 new entries being added each year. Entries date back as far as the late 1960s. ##ABM is the premier source of information on modern and contemporary arts dating from the late 19th century onwards, and including photography since its invention. It includes abstracts of English and foreign-language material on famous and lesser-known artists, movements, and trends. The coverage of ABM is wide-ranging and includes performance art and installation works, video art, computer and electronic art, body art, graffiti, artists' books, theatre arts, conservation, crafts, ceramic and glass art, ethnic arts, graphic and museum design, fashion, and calligraphy, as well as traditional media including illustration, painting, printmaking, sculpture, and drawing. ##ABM is used by students and researchers around the world to pinpoint publications and writings relevant to

their area of study. Its extensive classification system and comprehensive abstracts make it an ideal source for information on artists, art movements, art history and theory, design, photography, and crafts.

 [Go to ARTbibliographies Modern](#)

ARTFL (French literature)

Full text database ranging from classic works in French literature to nonfiction prose and technical writings. ##Mostly 18th-20th century texts. ##Coverage: about 2000 texts in the French language.

 [Go to ARTFL \(French literature\)](#)

Arts & Humanities Citation Index

Arts & Humanities Citation Index is a multidisciplinary index covering the journal literature of the arts and humanities.

 [Go to Arts & Humanities Citation Index](#)

ARTstor

ARTstor is a database of digital images of works of art and of artifacts of visual culture, intended to support teaching, research and learning in visual culture and related fields. The database contains hundreds of thousands of good-quality images and is growing rapidly. It is comprised of six major collections that may be searched separately or simultaneously:  The Image Gallery: a broad collection intended to support courses in art and architectural history.  The Carnegie Arts and the United States Collection: a collection intended to support teaching of American art and architectural history.  The Museum of Modern Art Architecture and Design Collection: drawings, models, photographs, graphic design materials, and three-dimensional objects documenting 20th-century design.  The Illustrated Bartsch: Old Master European prints from the 15th to the early 19th Centuries.  The Mellon International Dunhuang Archive (MIDA): mural paintings and related art and texts associated with the several hundred Buddhist cave shrines in Dunhuang, China.

 [Go to ARTstor](#)

ASABE Technical Library (formerly ASAE)

All of the recent technical documents published by the American Society of Agricultural Engineers including full text access to journals, standards, technical reports, conference proceedings, and monographs.

 [Go to ASABE Technical Library \(formerly ASAE\)](#)

ASCE Online Journals (civil engineering)

These are the online versions of the journals published by the American Society of Civil Engineers.

 [Go to ASCE Online Journals \(civil engineering\)](#)

ASM Handbooks Online

This resource features extensive engineering and property data for materials of all types. It contains the fulltext of several ASM handbooks including the Metals Handbook and the Engineered Materials Handbook.

 [Go to ASM Handbooks Online](#)

ASME Online Journals (mechanical engineering)

Full text access to the American Society of Mechanical Engineers online journals.

 [Go to ASME Online Journals \(mechanical engineering\)](#)

Association of Religion Data Archives (ARDA)

The Association of Religion Data Archives (ARDA) strives to democratize access to the best data on religion. The targeted audience and the data collection have both greatly expanded since 1998, now including American and international collections and developing features for educators, journalists, religious congregations, and researchers.

 [Go to Association of Religion Data Archives \(ARDA\)](#)

Associations Unlimited

This reference database has information and locations on nearly 144,000 nonprofit membership organizations worldwide: International and U.S. National, Regional, State, and Local. It covers everything from local Chambers of Commerce to the American Medical Association, and beyond. ##Note: In January 1998, the name was changed from Encyclopedia of Associations to Associations Unlimited. ##Current edition. Updates: Continuous.

 [Go to Associations Unlimited](#)

ASTM Standards

This database provides access to the full text versions of all current ASTM standards. ASTM is the American Society for Testing and Materials.

 [Go to ASTM Standards](#)

ATLA Religion Database with ATLASerials

ATLA Religion Database with ATLASerials combines the premier index to journal articles, book reviews, and collections of essays in all fields of religion with ATLA's online collection of major religion and theology journals. The ATLA Religion Database includes more than 488,000 article citations from more than 1,500 journals (506 currently indexed), more than 215,000 essay citations from over 15,700 multi-author works, and more than 446,000 book review citations. This database begins in 1949 although indexing for some journal titles extends back into the nineteenth century. This database is produced by the American Theological Library Association.

 [Go to ATLA Religion Database with ATLASerials](#)

Avery Index to Architectural Periodicals

Contains descriptions of articles on the history and practice of architecture, landscape architecture, city planning, historic preservation, furniture, and interior design and decoration in more than 700 international magazines. Most indexing began with 1934, but some titles are indexed to dates as early as 1741. Updated weekly.

 [Go to Avery Index to Architectural Periodicals](#)

Bartleby

Literature and reference books on the web.

 [Go to Bartleby](#)

Bartlett Quotations

Including over 11,000 quotations, the first new edition of John Bartlett's corpus to be published after his death in 1905 keeps most of his original work intact.

 [Go to Bartlett Quotations](#)

Behrend Beacon

This digital content of the student newspaper of Penn State Erie, the Behrend College, contains the issues from 1948 through 1989. Through the 41 years, the paper has been through many title changes, including Behrend Collegian, Penn State Behrend Collegian, Collegian, The Behrend College Collegian, and currently The Behrend Beacon.

 [Go to Behrend Beacon](#)

Beilstein/Gmelin

Beilstein and Gmelin are handbooks that cover organic chemistry and inorganic/organometallic chemistry respectively back to the late 1700s. They are searchable by property values or by chemical structures using CrossFire software. You must install the software on your workstation in order to access the databases. To obtain the information needed to download the software, please contact njb2@psu.edu and request it. Please use your PSU e-mail account. The contact information will not be sent to a non-PSU e-mail account.

 [Go to Beilstein/Gmelin](#)

Bible in English

The Bible in English contains twenty versions of the Bible, from Old English, through the Middle Ages and Renaissance, and into the twentieth century. In addition to the twelve complete Bibles, there are five New Testament works, two Gospel works and William Tyndale's New Testament, Pentateuch and Jonah translations.

 [Go to Bible in English](#)

Bibliography of Asian Studies

The on-line version of the Bibliography of Asian Studies (BAS) contains records on all subjects (especially in the humanities and the social sciences) pertaining to East, Southeast, and South Asia published worldwide.

 [Go to Bibliography of Asian Studies](#)

Bibliography of the History of Art

Indexing for articles and some books on European and American visual arts from late antiquity to the present. In addition to coverage of 1400 periodicals, selected books, conference proceedings, essays, exhibition catalogues, and some art dealer's catalogues, doctoral dissertations, and microform publications are indexed. Indexing begins with 1973 and is updated 4 times each year.

 [Go to Bibliography of the History of Art](#)

Biography and Genealogy Master Index (BGMI)

An index (not full text resource) to biographical information about influential people worldwide, both living and historical. Lists the contents of readily available current reference books as well as major reference works from the past. It currently has over 10 million references, with about 450,000 new ones added annually. See the Gale Web site for additional information and copyright statement. ##Coverage: Current edition. Updates: Continuous.

 [Go to Biography and Genealogy Master Index \(BGMI\)](#)

Biological Abstracts

Biological Abstracts is the premier database for the biological sciences. BA monitors more than 5,000 international journals to ensure that virtually every life science topic is covered, including agriculture, biochemistry, biology, botany, molecular biology, biotechnology, physiology, microbiology, neurology, pharmacology, public health, toxicology, zoology, and ecology and the environment. ##Coverage is from 1926 to date.

 [Go to Biological Abstracts](#)

BioOne

BioOne is a unique aggregation of high-impact bioscience research journals.

 [Go to BioOne](#)

Black Drama

Includes full texts of plays written from the mid-1800s to the present by more than 100 playwrights from North America, English-speaking Africa, the Caribbean, and other African diaspora countries. The plays are fully searchable and extensively indexed.

 [Go to Black Drama](#)

Blackwell Synergy

Blackwell Synergy is the online journal service from Blackwell Publishing. Synergy was launched in 1999 and has become the state-of-the-art online journals service preferred by both librarians and readers for its simplicity, ease-of-use and special functionality.

 [Go to Blackwell Synergy](#)

BNA Criminal Law Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Criminal Law Reporter provide in-depth news and analysis of criminal law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Criminal Law Reporter](#)

BNA Environment Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Environment Reporter provides in-depth news and analysis of environmental law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Environment Reporter](#)

BNA Family Law Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Family Law Reporter provide in-depth news and analysis of family law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Family Law Reporter](#)

BNA Health Law Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Health Law Reporter provides in-depth news and analysis of health law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Health Law Reporter](#)

BNA Labor and Employment Library

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Labor and Employment Library provides in-depth news and analysis of labor law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Labor and Employment Library](#)

BNA Law Resources

A collection of more than 200 law related news, analysis, and reference products, providing intensive coverage of legal and regulatory developments and case law covering a wide range of topics including Antitrust, Banking, Bankruptcy, Corporate, Criminal Law, Employee Benefits, Employment and Labor, Environment and Safety, Ethics, Family Law, Health Care, Homeland Security, Intellectual Property, International, International Tax, Litigation, Product Liability, Securities, Tax law, Trade, and Commerce.

 [Go to BNA Law Resources](#)

Book Review Index (Gale)

Provides quick access to reviews of books and other media appearing in more than 600 publications. Includes reviews published from 1965 to present. To locate the text of a review select the "Penn State Search" link.

 [Go to Book Review Index \(Gale\)](#)

BookSource: Nonfiction

Fiction readers can find the perfect novel with this reader's advisory service.

 [Go to BookSource: Nonfiction](#)

British Newspapers, 1600-1900

Consists of two major newspaper collection collections from the British Library which span three hundred years of newspaper publishing in the U.K. Includes the 17th and 18th Century Burney Collection Newspapers and 19th Century Newspapers. The two collections combined contain nearly 3 million pages and 40 million articles.

 [Go to British Newspapers, 1600-1900](#)

British Periodicals

Full texts of hundreds of journals from the late seventeenth to the early twentieth centuries. Includes some of the major magazines as well as specialized titles in literature, philosophy, history, science, the fine arts and the social sciences.

 [Go to British Periodicals](#)

Brown University Women Writers Project

The Brown University Women Writers Project is a long-term research project devoted to early modern women's writing and electronic text encoding. Our goal is to bring texts by pre-Victorian women writers (pre 1830 in England) out of the archive and make them accessible to a wide audience of teachers, students, scholars, and the general reader. We support research on women's writing, text encoding, and the role of electronic texts in teaching and scholarship.

 [Go to Brown University Women Writers Project](#)

Burney Collection 17th-18th Century Newspapers

The newspapers, pamphlets, and books gathered by the Reverend Charles Burney (1757-1817) represent the largest and most comprehensive collection of early English news media. The present digital collection, totals almost 1 million pages and over 1,000 titles from London, the British Isles, and the colonies.

 [Go to Burney Collection 17th-18th Century Newspapers](#)

Business Cycle Indicators - U.S. Indicators

The Business Cycle Indicators - U.S. Indicators database provides economic indicators that have proven to be most useful in determining current conditions and predicting the future direction of the United States economy. A common spreadsheet-type format is used, allowing the BCI series to be easily imported into numerous software programs (including EXCEL, LOTUS-123, FREELANCE, EViews, TSP, and SAS). More than 250 economic series are in the U.S. BCI dataset, with many series beginning in 1945.

 [Go to Business Cycle Indicators - U.S. Indicators](#)

CAB Abstracts (agriculture, nutrition and global health)

CAB DIRECT contains 4 sections, CAB Abstracts, CAB Abstracts Archive, Global Health and Global Health Archive with over 7.5 million records. CAB contains many records from research conducted worldwide. CAB Abstracts (1973 - Current) and CAB Abstracts Archive (1910-1973) cover all areas of agriculture including animal production, breeding, nutrition and welfare (equine, dairy, cattle, poultry), dairy science, horticulture, (fruits, nuts, vegetables ornamentals, flowers) crop science (field crops, grains, forages) and plant breeding and pathology. Also included are applied economics and rural sociology, agricultural engineering, soils and fertilizers, entomology, medical and veterinary mycology, aquaculture and veterinary medicine, human nutrition, forestry, forest products, and the management and conservation of natural resources, leisure and tourism, parasitology, and nematology. Global Health (1973-current) and Global Health Archive (1910-1983) covers international and public health, and is derived from over 3500 journals, plus reports, books and conferences, with over 1.1 million scientific records. Publications from over 125 countries in 50 languages are abstracted, and all relevant non-English language papers are translated to give access to research not available through any other database. Subjects included are bacterial, viral and prion diseases, mycology, parasitology, disease vectors, zoonotic diseases, nutrition and food safety, medicinal plants, toxicology and public and rural health.

 [Go to CAB Abstracts \(agriculture, nutrition and global health\)](#)

Cabell's Directory (Business; Education; Psychology)

Cabell's Directories helps identify journals that are most likely to publish a manuscript, by giving the topic areas emphasized, the type of review process, number of external reviewers, acceptance rate, time required for review, availability of reviewers' comments, and if fees charged to review or publish the manuscript. Directories are available for Accounting; Economics and Finance; Management; Marketing; Educational Curriculum and Methods; Educational Psychology and Administration; and Psychology.

 [Go to Cabell's Directory \(Business; Education; Psychology\)](#)

Cambridge University Press Journals

Access to electronic editions of journals to which the Penn State University Libraries subscribe. Cambridge University Press is the publisher.

 [Go to Cambridge University Press Journals](#)

CAMIO (Catalog of Art Museum Images Online)

CAMIO (Catalog of Art Museum Images Online) offers rights-cleared, high-quality art images for class projects, art history and studio art programs, course Web sites, lectures, presentations, and research resources. Authorized uses of these images include: 1. Classroom instruction and related activities; 2. student assignments; 3. public display or public performance in a university museum, gallery or similar facility including use in exhibit labels and other components of the exhibit; 4. public display or public performance as part of a professional presentation at a seminar, conference, or workshop; 5. use in a student or faculty portfolio, including non-public display thereof; and 6. use in a dissertation, including reproductions of the dissertation for personal use and library deposit. Coverage: Updated annually.

 [Go to CAMIO \(Catalog of Art Museum Images Online\)](#)

Canadian Poetry

Created in partnership with the Electronic Text Centre at the University of New Brunswick Libraries, this unique collection contains the full text of more than 19,000 poems by 177 poets including Bliss Carman, Isabella Valancy Crawford, Archibald Lampman, Charles G. D. Roberts and Duncan Campbell Scott, offering a comprehensive survey of Canadian poetry from the eighteenth century to the early twentieth.

 [Go to Canadian Poetry](#)

Capitolwire.com

Capitolwire.com provides current news related to policy and government in the state of Pennsylvania. Besides information on key issues it also provides: online Calendar of Record for public affairs in the capitol and around the state; briefing on the day's political and economic headlines; access to many of the latest memos, press releases, speeches, position papers, legislative committee testimony and correspondence to and from executive agencies, lawmakers, lobbyists and interest groups; and various tools to follow changes in regulation and legislation.

 [Go to Capitolwire.com](#)

Catalog of U.S. Government Publications

The Catalog of U.S. Government Publications (CGP) is the finding tool for electronic and print publications from the legislative, executive, and judicial branches of the U.S. government. These publications make up the National Bibliography of U.S. Government Publications. The CGP contains descriptive records for historical and current publications and provides direct links to those that are available online. The CGP is the online counterpart of the Monthly Catalog of United States Government Publications, which dates from the passage of the Printing Act of 1895. At present the Monthly Catalog should be consulted for pre-1976 indexing. The Monthly Catalog and many of the publications indexed in it were distributed through the Federal Depository Library Program.

 [Go to Catalog of U.S. Government Publications](#)

Catholic Periodical & Literature Index

The Catholic Periodical and Literature Index (CPLI) Online is the product of a partnership between ATLA and the Catholic Library Association. The database covers all aspects of the Catholic faith and lifestyle, and includes over 380,000 index citations of articles and reviews published in Roman Catholic periodicals, Papal documents, church promulgations, and books about the Catholic faith that are authored by Catholics and/or produced by Catholic publishers.

 [Go to Catholic Periodical & Literature Index](#)

CCH Business and Finance Network

CCH Business and Finance Network provides primary research materials on mergers and acquisitions, product liability and safety, corporate governance, banking, international business, securities, intellectual property, and antitrust and trade regulation. Full text materials include statutes, judicial opinions, regulations, newsletters, foreign laws and rules, and forms.

 [Go to CCH Business and Finance Network](#)

CCH Health and Human Resources Network

CCH Health and Human Resources Network provides federal and state research materials on topics such as labor and employment, pensions, benefits, health care compliance and reimbursement, and safety compliance. Full-text materials include statutes, regulations, agency directives and letters, judicial opinions, and forms.

 [Go to CCH Health and Human Resources Network](#)

CCH Tax Research Network

Comprehensive tax service providing federal, state, and international tax research source materials, including full-text statutes, regulations, administrative and judicial opinions, commentary, and citations.

 [Go to CCH Tax Research Network](#)

CE Database (ASCE)

The Civil Engineering Database (CEDB) is designed to provide easy bibliographic access to all ASCE publications. The database covers ASCE documents published since 1970. It provides access to all the journals, conference proceedings, books, standards, manuals, magazines, and newspapers.

 [Go to CE Database \(ASCE\)](#)

CenStats

CenStats is a Web-based subscription service that provides interactive search-and-display access to the following databases: Annual Survey of Manufactures Building Permit Data Census Tract Street Locator Consolidated Federal Funds Report County Business Patterns International Trade Data Occupation by Race and Sex USA Counties Zip Business Patterns Note: This database is available to all users; it is not restricted to Penn State users only.

 [Go to CenStats](#)

Center for Research Libraries Catalog

The Center for Research Libraries (CRL) is a consortium of North American universities, colleges, and independent research libraries. The consortium acquires and preserves newspapers, journals, documents, archives, and other traditional and digital resources for research and teaching and makes them available to member institutions through interlibrary loan and electronic delivery.

 [Go to Center for Research Libraries Catalog](#)

Centre Daily Times (1996 - present)

The Centre Daily Times, four years straight winner of the top newspaper in its circulation category, is committed to providing the best local news coverage in the area. The Daily Times covers many businesses headquartered in the region such as AccuWeather, Rathcon, Uni-Marts Inc. and Corning Asahi. Particular emphasis is placed on Penn State University as a result of its proximity. Coverage: 9/28/1995 - present

 [Go to Centre Daily Times \(1996 - present\)](#)

Centre Daily Times Index

This selective database, created at Penn State, primarily indexes local news articles. National and state news items are not indexed unless they are relevant to local persons, places or events. The Sports section is not indexed unless an article relates to another larger issue such as Title IX, gender equity, medicine, etc. Friday's Weekender section is not indexed either. The following topics are indexed: Local news articles Selected Editorials Theater Music Visual arts Book reviews Obituaries (beginning in 1990) Coverage: 1981-2002.

 [Go to Centre Daily Times Index](#)

Ceramic Abstracts

This is a database for the ceramics industry, providing international coverage on the manufacture, processing, applications, properties and testing of traditional and advanced ceramics. Source materials include over 300 journals, conference proceedings, books, patents, standards and company product literature. Coverage: 1975-date

 [Go to Ceramic Abstracts](#)

CHANT (Chinese Ancient Texts)

Chinese Ancient Text (CHANT) is a comprehensive full-text database of ancient Chinese texts. The database contains five components: pre-

 [Go to CHANT \(Chinese Ancient Texts\)](#)

 [Go to Chemical Abstracts](#)

 [Go to CHEMnetBASE \(chemistry, physics, polymers\)](#)

 [Go to Child Abuse, Child Welfare, and Adoption](#)

 [Go to Children's Literature Comprehensive Database](#)

 Go to Chinese Journals Fulltext Database (CNKI)

 [Go to ChoiceReviews online](#)

 [Go to CIAO \(Columbia International Affairs Online\)](#)

 Go to CINAHL (Cumulative Index for Nursing and Allied Health)

 [Go to Civil War Letters and Diaries \(U.S. Civil War\)](#)

 [Go to Cochrane Library](#)

 [Go to CollegeSource](#)

 [Go to Columbia Encyclopedia](#)

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anthologies. Though the emphasis is on poems written in or translated into English, works in a number of other languages are included.

Poems may be searched by authors, subjects, titles, first lines, last lines, or full texts.

 [Go to Columbia Granger's World of Poetry](#)

Communication & Mass Media Complete

CMMC incorporates CommSearch (formerly produced by the National Communication Association) and Mass Media Articles Index (formerly produced by Penn State) along with numerous other journals to create a research and reference resource of unprecedented scope and depth in the communication and mass media fields.

 [Go to Communication & Mass Media Complete](#)

Communication Abstracts

Communication Abstracts, edited by Tom Gordon at Temple University and published by SAGE Publications, is a comprehensive source of information about communication-related publications on a world-wide scale. Communication Abstracts covers communication-related articles, reports, papers, and books from a variety of publishers, research institutions, and information sources.

 [Go to Communication Abstracts](#)

Community Health Database (Southeastern PA Household Health Survey)

The Community Health Data Base (CHDB) is provided by the Philadelphia Health Management Corporation (PHMC). The CHDB contains statistical information from the Southeastern Pennsylvania Household Health Survey, which is administered every two years. The CHDB also maintains U.S. Census and vital statistics data. The Community Health Data Base has become a unique, critical resource for area health and social service agencies. It provides: Local data, not extrapolations based on national or state data Data that are community-based rather than resource-based Data that can be examined by different levels of geography, including census tract, health district, Minor Civil Division, and ZIP code, as well as by county and region Longitudinal data that can be used as a baseline to measure changes in health, social status and access to care over time

 [Go to Community Health Database \(Southeastern PA Household Health Survey\)](#)

Community of Science

The Community of Science (COS) home page, a venture funded by Johns Hopkins University, contains multiple resources which members of Penn State can access. Databases we have access to are: ##GeoRef ##U.S. Patents ##Scientific Journals ##Federally Funded Research in the U.S. (the full grants database of the NIH, NSF, USDA, SBIR, and Advanced Technology Program) ##The are additional choices on the COS home page which, are not available to Penn State users. They are: ##MEDLINE, Compendex, Federal Register and Commerce Business Daily. ##However, you can access MEDLINE and Compendex from the LIAS Fast Track.

 [Go to Community of Science](#)

Compendex (EI Village 2)

Compendex is the most comprehensive interdisciplinary engineering database in the world with over 9 million records referencing 5,000 engineering journals and conference materials dating from 1884.

 [Go to Compendex \(EI Village 2\)](#)

Conference Board's Research Online Collection

Full-text research reports (from 1998 on) on recent issues in business and economics. Subscription also includes access to "Straight Talk" (brief analyses of economic issues), "Across the Board" (the Board's magazine), the "Executive Action Series" (brief reports addressing topics of interest to senior executives), and the Board's economic working papers.

 [Go to Conference Board's Research Online Collection](#)

Conference Papers Index

Conference Papers provides citations to papers and poster sessions presented at major scientific meetings around the world. Subject emphasis since 1995 has been in the life sciences, environmental sciences and the aquatic sciences, while older material also covers physics, engineering and materials science. Information is derived from final programs, abstracts booklets and published proceedings, as well as from questionnaire responses. Records include complete ordering information to obtain preprints, abstracts, proceedings and other publications derived from the conference, together with title and author information needed to track the specific papers.

 [Go to Conference Papers Index](#)

Congressional Research Service Reports (LexisNexis)

Research papers written by the Library of Congress for the use of Congress. Provide objective, non-partisan analysis of public policy issues before the legislature. Full text PDF of reports.

 [Go to Congressional Research Service Reports \(LexisNexis\)](#)

Constitutions of the Countries of the World Online

 [Go to Constitutions of the Countries of the World Online](#)

Consumer Health (Medline Plus)

MedlinePlus brings together authoritative information on over 700 diseases and conditions from the National Library of Medicine, the National Institutes of Health (NIH), and other government agencies and health-related organizations. There are also lists of hospitals and physicians, an illustrated medical encyclopedia, a medical dictionary, interactive patient tutorials, health information in Spanish, extensive information on prescription and nonprescription drugs, health information from the media, and links to thousands of clinical trials. Pre-formulated MEDLINE searches are included in MedlinePlus and give easy access to medical journal articles. MedlinePlus is updated daily. This resource is designed for educational use only and not intended to replace advice from a health professional. Learn more about MedlinePlus at <http://www.nlm.nih.gov/pub/factsheets/medlineplus.htm>

 [Go to Consumer Health \(Medline Plus\)](#)

Contemporary Authors

Provides brief biographical information and lists of publications by and about over 90,000 current authors of fiction, nonfiction, poetry, journalism, drama, media, etc., active in the U. S. and internationally. ##Coverage: Current edition. Updates: Continuous.

 [Go to Contemporary Authors](#)

Contemporary Women's Issues

This database provides access to full text sources covering global information on women. The sources include periodicals, newsletters, reports, fact sheets, and pamphlets. Topics covered range from human rights to health and reproductive issues to legal information.

##Coverage: 1992 to date. Includes nearly 1500 titles. Updates: Weekly

 [Go to Contemporary Women's Issues](#)

Copper Data Center

The Copper Data Center Database (CDC) provides an online bibliographic database of the world's literature on copper, copper alloys and copper technology since 1965. The Copper Data Center Database covers copper technology from smelting and hydrometallurgy through the

performance of copper and copper alloys in their end-use applications and service environments. It references data on the properties and performance of copper and copper alloys and on applications of the copper metals. Over 52,000 documents have been indexed into this database, including 5582 documents published between 1863 and 1964.

 [Go to Copper Data Center](#)

Corpus of Middle English Prose and Verse

This is a collection of Middle English texts assembled from works contributed by University of Michigan faculty and from the Oxford Text Archive.

 [Go to Corpus of Middle English Prose and Verse](#)

Corrosion Abstracts

Corrosion Abstracts provides the world's most complete source of bibliographic information in the area of corrosion science and engineering. International sources of literature are scanned and abstracted in the areas of general corrosion, testing, corrosion characteristics, preventive measures, materials construction and performance, and equipment for many industries.

 [Go to Corrosion Abstracts](#)

CQ Congress Collection

CQ Congress Collection is a dynamic research and reference tool allowing historical analysis of members of Congress, their legislative voting behavior, interest groups, and their interactions in crafting public policy.

 [Go to CQ Congress Collection](#)

CQ Electronic Library

A reference source for research in American government, politics, history, public policy, and current affairs. The suite includes the online version of --CQ Weekly --CQ Researcher --CQ Congress Collection, --CQ Voting and Elections Collection --CQ Historic Documents Online

 [Go to CQ Electronic Library](#)

CQ Historic Documents Series Online

Historic Documents Series Online Edition collects more than 2,500 primary sources covering current events around the world from 1972 to present. Each source document is preceded by an introductory essay giving context to the source. Users can search by keyword, or browse by topic or date. Topics range from presidential speeches to statements by sports figures such as Magic Johnson on his retirement from the NBA.

 [Go to CQ Historic Documents Series Online](#)

CQ Researcher Online

The CQ Researcher is a collection of reports covering political and social issues, with regular reports on topics in health, international affairs, education, the environment, technology and the U.S. economy. ##Keywords: hot topics, current events, social issues, social trends, archive, English 15, CAS 100, background information, general interest, contemporary issues, overviews

 [Go to CQ Researcher Online](#)

CQ Supreme Court Collection

CQ Supreme Court Collection contains summaries and analysis of more than four thousand major decisions, historical and contemporary, including all cases in which the Burger and Rehnquist Courts (October 1969 to the present) issued a written opinion. Includes links to the full text of the cases. The collection can be searched by topic, justice, and case name. Includes tools to research justices' voting records and opinion alignments.

 [Go to CQ Supreme Court Collection](#)

CQ Voting & Elections Collection

Expert analysis, demographics, and data of elections-related information.

 [Go to CQ Voting & Elections Collection](#)

CQ Weekly

Each issue of CQ Weekly contains an unbiased, objective and comprehensive roundup of virtually all Capitol Hill activity from the previous week.

 [Go to CQ Weekly](#)

Criminal Justice Abstracts

Provides abstracts of articles from the major journals in criminology and related disciplines, as well as books and reports from government and nongovernmental agencies. For each document, an informative summary of the findings, methodology, and conclusions is provided. Topics include crime trends, prevention projects, corrections, juvenile delinquency, police, courts, offenders, victims, and sentencing

 [Go to Criminal Justice Abstracts](#)

Criminal Justice: National Criminal Justice Reference Service (NCJRS)

The National Criminal Justice Reference Service Abstracts Database contains summaries of more than 150,000 publications on criminal justice, including Federal, state, and local government reports, books, research reports, journal articles, and unpublished research. Subject areas include corrections, courts, drugs and crime, law enforcement, juvenile justice, crime statistics, and victims of crime. ##Coverage: The time period covered is from the early 1970's to the present.

 [Go to Criminal Justice: National Criminal Justice Reference Service \(NCJRS\)](#)

CumInCAD (Computer-Aided Architectural Design)

CumInCAD is a cumulative index of publications about computer aided architectural design. It provides abstracts to thousands of papers in journals and conferences and it provides the full text and illustrations for more than half of the papers. When asked to logon, create your own ID and password.

 [Go to CumInCAD \(Computer-Aided Architectural Design\)](#)

Current Index to (mathematical) Statistics

The Current Index to Statistics is a bibliographic index to publications in mathematical statistics and related fields. The CIS Extended Database includes cover-to-cover coverage of 100 "core journals", selected articles from 900 additional related journals, and about 8,000 books since 1974.

 [Go to Current Index to \(mathematical\) Statistics](#)

Daily Collegian (1887-1987) (Digital Archive)

The Daily Collegian and its predecessors, serve as an important source for documenting student life at the Pennsylvania State University. Newspapers, and specifically, student-run newspapers, such as the Daily Collegian, often document university life better than any other source. Through their pictures, their editorials, and their reports on student activities and interests. The Daily Collegian as we know it

today was preceded by: [AgAeAg Free Lance \(monthly\)](#) - April 1887 to April 1904 [AgAeAg State Collegian \(weekly\)](#) - September 28, 1904 to June 10, 1911 [AgAeAg Penn State Collegian \(weekly\)](#) - September 28, 1911 to August 2, 1940 (also had Summer Collegian issues for some dates during this time period). The Historical Digital Collegian provides access to all words, photographs, and advertisements as well as an exact page image of the newspaper page containing the article. For those readers who prefer to see the newspaper intact, each issue can be browsed page-by-page. Thus, the Historical Digital Collegian allows researchers greater flexibility in locating articles of interest and in allowing greater access for those researchers not able to visit The University Libraries.

 [Go to Daily Collegian \(1887-1987\) \(Digital Archive\)](#)

Daily Collegian Index 1992-2002

This selective database, created at Penn State, is an index of news articles pertaining largely to Penn State and, to a lesser extent, the surrounding communities. National and state news items are not indexed unless they relate to persons, places or events associated with either Penn State or its surrounding communities. **##The Sports section is not indexed unless an article relates to a larger issue such as Title IX, gender equity, medicine, etc. Friday's Weekender section is not indexed either. ## ##The following topics are indexed: ## ##Local news articles ##Selected Editorials ##Theater ##Music ##Visual arts ##Book reviews**

 [Go to Daily Collegian Index 1992-2002](#)

Datasets for Research

This web site is primarily intended to function as a guide to the acquisition and use of secondary datasets which are available for research. In addition, it also contains information on sources for locating summary statistics. **## ##At this time, the resources on this web site pertain primarily to the health, social sciences, maps/ geography disciplines. Other disciplines will be added in the future.**

 [Go to Datasets for Research](#)

Declassified Documents Reference System

The Declassified Documents Reference System provides online access to over 500,000 pages of previously classified government documents. Covering major international events from the Cold War to the Vietnam War and beyond, this single source enables users to locate key information underpinning studies in international relations, American studies, United States foreign and domestic policy studies, journalism and more.

 [Go to Declassified Documents Reference System](#)

Dictionary of Literary Biography

This new and growing database covers authors from all genres and time periods. Entries provide a good starting point for students by providing a general essay and biographical information. In addition to the essay there are references to primary and further critical information. All entries are written by scholars and academic specialists.

 [Go to Dictionary of Literary Biography](#)

Dictionary of Old English

Covers the vocabulary of the English language between the years 600-1150 A.D., giving definitions, examples of use, variations in spelling, and references to contemporary texts. The Dictionary is being compiled incrementally; as of 2008, the editors had reached the letter G.

 [Go to Dictionary of Old English](#)

Digital Library of Classic Protestant Texts

The Digital Library of Classic Protestant Texts is an exhaustive resource for historians, theologians, political scientists, and sociologists studying the religious and social upheavals of the 16th and 17th centuries. DLCPT gives researchers immediate, Web-based access to an extensive range of seminal works from the Reformation and post-Reformation eras. With new content uploads occurring on a weekly basis, the database offers a constantly growing treasury of theological writings, biblical commentaries, confessional documents, and polemical treatises written by more than 300 Protestant authors.

 [Go to Digital Library of Classic Protestant Texts](#)

Digital Library of the Catholic Reformation

A uniquely exhaustive resource for historians, theologians, political scientists, and sociologists studying the religious and social upheavals of the 16th and 17th centuries, the Digital Library of the Catholic Reformation gives researchers immediate, Web-based access to an extensive range of seminal works from the Reformation and post-Reformation eras.

 [Go to Digital Library of the Catholic Reformation](#)

DigiZeitschriften: The German Digital Journal Archive

DigiZeitschriften is a research service giving scholars access the core German research journals. Coverage includes over one hundred full-text international journals in Arts, Economics, Education, Geology, History, Language, Law, Librarianship, Literature, Mathematics, Music, Philology, Religion, Sciences, and Sociology.

 [Go to DigiZeitschriften: The German Digital Journal Archive](#)

Directory of Open Access Journals

Search journal articles at the 'one stop shop for users to Open Access Journals'.

 [Go to Directory of Open Access Journals](#)

Directory of Published Proceedings

Contains material from 280,000+ conferences, congresses, meetings & symposia in the areas of Science/Engineering/Technology Medical / Life Sciences Pollution Control / Ecology Social Sciences / Humanities

 [Go to Directory of Published Proceedings](#)

Dissertations & Theses

With more than 2 million entries, PQD&T, is the single, central, authoritative resource for information about doctoral dissertations and master's theses.

 [Go to Dissertations & Theses](#)

DOE Information Bridge (technical reports)

Includes the full text and bibliographic records of DOE (Department of Energy)-sponsored technical reports published since 1996.

##Coverage: DOE technical reports issued since 1996

 [Go to DOE Information Bridge \(technical reports\)](#)

DYABOLA

DYABOLA contains electronic subject catalogs of publications on the history of art and the ancient world. It includes the subject catalogs of the German Archaeological Institute in Rome, the Bibliography of Iberian Archaeology from the German Archaeological Institute in Madrid, and the Archaeology of Roman Provinces from RGK Frankfurt.

 [Go to DYABOLA](#)

Early American Fiction 1789 - 1875

Early American Fiction 1789-1875 offers the full text of more than 700 first editions of American novels and short stories by such authors as Louisa May Alcott, Herman Melville, Harriet Beecher Stowe and Mark Twain, as well as a host of minor writers of the period.

 [Go to Early American Fiction 1789 - 1875](#)

Early American Imprints, Series I, Evans

Evans Digital Edition (1639-1800) consists of digitized facsimiles of publications produced in the American colonies and the early United States. Derived from entries listed in Charles Evans's American Bibliography, and supplemented from other sources, it includes books, pamphlets, and broadsides on many topics, and is a fundamental resource for early American history, literature, philosophy, and religion.

 [Go to Early American Imprints, Series I, Evans](#)

Early American Imprints Series II, Shaw-Shoemaker, 1801-1819

Early American Imprints, Series II (1801-1819) provides full-text access to some 36,000 American books, pamphlets and broadsides published in the early nineteenth century. The works cover all aspects of American life, including scientific thought, religion, politics, arts and literature, economics, Indian relations, military affairs, Westward expansion and more. The database is based on the authoritative bibliography by Ralph R. Shaw and Richard H. Shoemaker, supplemented by thousands of newly identified items. The database continues the Early American Imprints: Series I, 1639-1800.

 [Go to Early American Imprints Series II, Shaw-Shoemaker, 1801-1819](#)

Early American Imprints Text Creation Partnership

A selection of digitized and encoded texts selected from the titles in the Evans Early American Imprints collection. Includes materials printed in the American colonies and United States before 1820.

 [Go to Early American Imprints Text Creation Partnership](#)

Early English Books Online

Early English Books Online contains over 125,000 titles listed in Pollard's and Redgrave's Short-Title Catalogue (1475-1640), Wing's Short-Title Catalogue (1641-1700), and the Thomason Tracts (1640-1661). Coverage includes the first book printed in English by William Caxton and features works by Malory, Bacon, More, Erasmus, Boyle, Newton, and Galileo. Novels, prayer books, pamphlets, almanacs, calendars, and many other types of primary sources are included. The works are presented as images that can be viewed online or downloaded in PDF format for viewing off-line.

 [Go to Early English Books Online](#)

Early English Books Online - text creation partnership

A selection of digitized and encoded texts chosen from images in the Early English Books Online Project (works printed in the British Isles or in English from 1473 to 1700). Works chosen must be associated with an author whose name appears in the New Cambridge Bibliography of English Literature, or be named by title in the Bibliography.

 [Go to Early English Books Online - text creation partnership](#)

Early English Prose Fiction

A collection of more than 200 works from the period 1500-1700, exploring the rich diversity of prose fiction in English in the period preceding the emergence of the realist novel as its dominant form. Early English Prose Fiction offers the full text of works by key writers such as John Bunyan, Sir Philip Sidney, Thomas Nashe and Aphra Behn, and has been produced in association with the Salzburg Centre for Research on the Early English Novel (SCREEN).

 [Go to Early English Prose Fiction](#)

Ecology Abstracts

Ecology Abstracts focuses on how organisms of all kinds - microbes, plants, and animals - interact with their environments and with other organisms. Also includes works on the impacts of environmental change. Coverage is from 1982 to date.

 [Go to Ecology Abstracts](#)

EconLit

EconLit provides citations, with selected abstracts, to the international publications on economics since 1989. EconLit covers a broad range of document types, including journal articles, books, dissertations, and articles in collective works.

 [Go to EconLit](#)

Editions and Adaptations of Shakespeare

Contains the following: eleven major editions from the first folio of 1623 to the Cambridge edition of 1853-6; twenty-eight separate contemporary printings of individual plays and poems; selected apocrypha and related works; more than one hundred adaptations, sequels and burlesques from the seventeenth, eighteenth, and nineteenth centuries, including the whole of Bell's acting edition of Shakespeare's plays (1774).

 [Go to Editions and Adaptations of Shakespeare](#)

Education Abstracts Full Text

Education Abstracts Full Text contains abstracting and indexing coverage for over 475 periodicals included in Education Index as well as the full text of over 150 periodicals, offering instant access to information.

 [Go to Education Abstracts Full Text](#)

eHRAF Collection of Archaeology

The Human Relations Area Files are designed to facilitate the cross-cultural study of human society, culture, and behavior. Two HRAF databases are available: Ethnography Collection and Archaeology Collection. They provide full-text access to source material on a wide variety of cultures around the world, as well as a cultural summary and bibliography for each culture covered.

 [Go to eHRAF Collection of Archaeology](#)

eHRAF World Cultures (formerly Collection of Ethnography)

The Human Relations Area Files are designed to facilitate the cross-cultural study of human society, culture, and behavior. Two HRAF databases are available: Ethnography Collection and Archaeology Collection. They provide full-text access to source material on a wide variety of cultures around the world, as well as a cultural summary and bibliography for each culture covered.

 [Go to eHRAF World Cultures \(formerly Collection of Ethnography\)](#)

Eighteenth - Century Fiction

A collection of 96 complete works of English prose from the period 1700-1780 by writers from the British Isles. Key figures covered include Daniel Defoe, Henry Fielding, Eliza Haywood, Samuel Richardson, Tobias Smollett, Laurence Sterne and Jonathan Swift. In addition to a scanned version of Sterne's Tristram Shandy, the collection also contains two different editions of Richardson's Clarissa and Pamela, and of Swift's Gulliver's Travels.

 [Go to Eighteenth - Century Fiction](#)

Eighteenth Century Collections Online (ECCO)

Full texts and images of nearly 150,000 titles and editions printed in the British Isles and the Americas between 1701 and 1800, including materials in foreign languages as well as in English.

 [Go to Eighteenth Century Collections Online \(ECCO\)](#)

Eighteenth Century Collections Online Text Creation Partnership

A selection of digitized and encoded texts selected from titles in Eighteenth Century Collections Online.

 [Go to Eighteenth Century Collections Online Text Creation Partnership](#)

Eighteenth Century Journals Online II

A collection of digitized newspapers and periodicals from 1699 to 1812 selected from the Humanities Research Center at the University of Texas. Searchable by date, publisher, location, and full text. Supplements "Eighteenth Century Journals from the Hope Collection at the Bodleian Library, Oxford," available in the University Park News and Microforms Library.

 [Go to Eighteenth Century Journals Online II](#)

Electronic Reserves

 [Go to Electronic Reserves](#)

Electronic Theses and Dissertations Resources

Provides information concerning electronic theses and dissertations resources across the country.

 [Go to Electronic Theses and Dissertations Resources](#)

Elsevier ScienceDirect (full text journal articles)

This system provides access to the electronic versions of the Elsevier journals that we subscribe to. Current issues and back files are included. Currently, it includes more than 1,200 journals. The full text collection contains over 1.5 million articles from 1995 to present across all fields of science.

 [Go to Elsevier ScienceDirect \(full text journal articles\)](#)

Empire Online, 1492-1969

This project brings together approximately 60,000 images of original sources, both manuscript and printed materials, documenting the history of exploration, cultural contact, and colonialism. Thematic essays introduce the material and place the documents within a broad historical, literary and cultural context. Topics include race, class and empire, religion, art, and economic aspects of empire.

 [Go to Empire Online, 1492-1969](#)

Encyclopaedia of Islam

The Encyclopaedia of Islam (New Edition) sets out the present state of our knowledge of the Islamic World. It is a unique and invaluable reference tool, an essential key to understanding the world of Islam, and the authoritative source not only on the religion, but also on the believers and the countries in which they live. It embraces articles on distinguished Muslims of every era and origin, on tribes and dynasties, on crafts and sciences, on political and religious institutions, on the geography, ethnography, flora and fauna of the various countries and on the history, topography and monuments of the major towns and cities. In its geographical and historical scope it encompasses the old Arabo-Islamic empire, the Islamic countries of Iran, Central Asia, the Indian sub-continent and Indonesia, as well as the Ottoman Empire and all other Islamic countries. The Encyclopaedia of Islam is the most important reference tool on Islam presently available.

 [Go to Encyclopaedia of Islam](#)

Encyclopedia of American Studies

The Encyclopedia of American Studies provides interdisciplinary coverage of the American experience, from pre-colonial days to the present. Over 660 articles cover areas such as history, literature, art, photography, film, architecture, urban studies, ethnicity, race, gender, economics, politics, wars, consumer culture, and global America.

 [Go to Encyclopedia of American Studies](#)

Encyclopedia of International Media and Communications

The Encyclopedia of International Media and Communications (EIMC) seeks to provide "clear knowledge of the workings of the media and communications worldwide" and to outline possible futures. "Communications" is restricted to communications technology. EIMC's international authorship consists mainly of academics, a quarter of whom are from 26 countries outside the US—a globally diverse pool. An outline of section headings and glossary preface each article, and black-and-white figures, tables, and occasional photographs appear throughout. The editor defines the audience for EIMC broadly—professors, students, "scholars and researchers ... journalists and other writers, librarians and historians, educators and executives of multinational corporations—in fact, anyone who needs information" related to media and communications. —Choice Review, Nov. 2003.

 [Go to Encyclopedia of International Media and Communications](#)

Energy Citations (DOE)

The Energy Citations Database (ECD) contains bibliographic records for energy and energy-related STI from the Department of Energy (DOE) and its predecessor agencies, the Energy Research & Development Administration (ERDA) and the Atomic Energy Commission (AEC). The Database provides access to DOE publicly available citations from 1948 through the present, with continued growth through regular updates.

 [Go to Energy Citations \(DOE\)](#)

Engineered Materials

The growing importance of polymers, ceramics, and composites in a variety of structural and other advanced applications requires the in-depth coverage provided by Engineered Materials Abstracts (EMA). Citations regarding the research, manufacturing practices, properties and applications of these materials have been taken from 1,300 journals, plus dissertations, government reports, conference proceedings, and books indexed by expert editors from Materials Information. Begun in 1986, Engineered Materials Abstracts is an electronic database containing Ceramics, Composites and Polymers subfiles. EMA is specifically designed to serve materials sciences researchers, engineers and scientists.

 [Go to Engineered Materials](#)

English Drama (1280-1915)

A unique collection of more than 3,900 plays in verse and prose tracing the development of drama in English from the medieval mystery cycles to the comedies of Oscar Wilde.

 [Go to English Drama \(1280-1915\)](#)

English Poetry, Second Edition

Provides complete texts of the works of over 2,700 poets from the 8th to early 20th century—in all, more than 183,000 poems. Based on the

New Cambridge Bibliography of English Literature, but also includes English language poets from Ireland, Australia, and New Zealand. Generally includes original texts published during the authors' lifetimes.

 [Go to English Poetry, Second Edition](#)

English Short Title Catalogue

The ESTC is a comprehensive bibliographic record of works printed in Britain and North America or in the English language anywhere else in the world between 1473 and 1800. It includes books, serials, pamphlets, and single-sheet items, and notes the location of copies in some 2,000 contributing libraries worldwide.

 [Go to English Short Title Catalogue](#)

ENGnetBASE

A collection of over 100 handbooks covering all fields of engineering.

 [Go to ENGnetBASE](#)

Environmental Engineering Abstracts

Environmental Engineering Abstracts covers the world literature pertaining to technological and engineering aspects of air and water quality, environmental safety, and energy production. More than 700 primary journals are thoroughly indexed and abstracted. Over 2,500 additional sources, including monographs and conference proceedings, are also monitored for relevant articles. ##### ##Subject Coverage##Major areas of coverage include: ##Agricultural equipment and methods ##Arctic and tropical engineering ##Coastal engineering ##Environmental impact and protection ##Hazardous materials ##Heat exchangers ##Hydroelectric power ##Internal combustion engines ##Mines and quarry equipment ##Nuclear power plants ##Pipes and pipelines ##Sources and control of air pollution ##Steam power ##Thermoelectric energy ##Tidal and wind power ##Treatment of sewage and industrial wastes ##Turbines ##Water analysis and treatment techniques ## ##Dates of Coverage##Approximately 1990-current. The oldest record in the database has a publication date of 1973; about 50% of its records have publication dates of 1997 or later.

 [Go to Environmental Engineering Abstracts](#)

Environmental Sciences and Pollution Management

The Environmental Sciences Collection provides abstracts and references to the literature covering all areas of air, land, water, and noise pollution as well as bacteriology, ecology, toxicology, risk assessment, environmental engineering, environmental biotechnology, waste management, and water resources from 1967 to the present. Abstracts and citations are drawn from over 4000 scientific journals and thousands of other sources including conference proceedings, reports, monographs, books and government publications. The collection consists of thirteen files which can be searched individually:##(1) Agricultural & Environmental Biotechnology Abstracts (1993 to date)##(2) Aquatic Pollution & Environmental Quality (1990 to date)##(3) Ecology Abstracts (1982 to date) ##(4) Environmental Engineering Abstracts (1981 to date)## (5) Health & Safety Science Abstracts (1981 to date)##(6) Human Population & Natural Resource Management (1995 to date) ##(7) Microbiology Abstracts Section A: Industrial & Applied Microbiology (1982 to date)##(8) Microbiology Abstracts Section B: Bacteriology, also called Bacteriology Abstracts (1982 to date) ##(9) Pollution Abstracts (1981 to date)##(10) Risk Abstracts (1990 to date)## (11) Sustainability Science Abstracts (2003 to date)##(12) Toxicology Abstracts (1981 to date)##(13) Water Resources Abstracts (1967 to date)##Coverage: 1967 to current. Updates: Monthly.####N.B. The file called Digests of Environmental Impact Statements, which used to be included in this collection, is now a separate index.

 [Go to Environmental Sciences and Pollution Management](#)

ERIC

The ERIC (Educational Resources Information Center) database is sponsored by the U.S. Department of Education to provide extensive access to educational-related literature. The ERIC database corresponds to two printed journals: Resources in Education (RIE) and Current Index to Journals in Education (CIJE). Both journals provide access to some 14,000 documents and over 20,000 journal articles per year.

 [Go to ERIC](#)

ERIC (USDE)

The Education Resources Information Center (ERIC) is a digital library of education-related resources.

 [Go to ERIC \(USDE\)](#)

esp@cenet - European Patent Office Database

"Over 30.5 million documents including the most recent 24##months of publications from the European Patent Office.##recent 24 months of PCT-publications from World Intellectual##Property Organization (WIPO), the EPODOC database for##"worldwide documents" where coverage varies by country (with##US Patents from 1836 to present), or Japanese Documents -##PAJ (Patent Abstracts of Japan) bibliographic database since##1976."

 [Go to esp@cenet - European Patent Office Database](#)

E-STAT

E-STAT is Statistics Canada's dynamic interactive teaching and learning tool available on the Internet. It is designed to bring an enormous warehouse of timely, reliable and accurate data about Canada and its ever-changing people to educational institutions, using current Canadian Socio-economic Information Management System(CANSIM) multidimensional tables, and the most recent census data, as well as historical data. E-STAT lets you bring the columns of data to life by presenting them as colourful graphs and maps, which immediately reveal the tren

 [Go to E-STAT](#)

Ethnic NewsWatch

Ethnic NewsWatch (ENW) is a comprehensive full text database of the newspapers, magazines and journals of the ethnic, minority and native press. Continuously growing since 1991, with archival material back to 1985, Ethnic NewsWatch is now a collection of more than 470,000 full-text articles from over 200 publications. Searchable in both English and Spanish, with titles in both languages and more than 100,000 articles in Spanish, ENW offers in-depth coverage of a wide range of current and retrospective topics easily accessed using free text and fielded searching. An average of 7,500 new articles is added each month.

 [Go to Ethnic NewsWatch](#)

E-ZBorrow (Pennsylvania Academic Library Consortium)

PALCI stands for the Pennsylvania Academic Libraries Connection Initiative. In addition, to Penn State, other participating libraries include: Indiana University of Pennsylvania (currently search only), Lafayette College, Lehigh University, and University of Pittsburgh. A full implementation of the system will provide access to the catalogs of 38 academic libraries in Pennsylvania. ##Access to this system is guaranteed through the fall semester. Continued availability will depend on the purchasing decision of the consortium.

 [Go to E-ZBorrow \(Pennsylvania Academic Library Consortium\)](#)

FBIS Full Text (Foreign Broadcast Information Service)

Translations of broadcasts, news agency transmissions, newspapers, periodicals, and government statements from nations around the world are the sources of this information.##Full text is currently available for selected areas only. For access to all FBIS reports use the A-Z link for the FBIS Index. All reports are available on microfiche in the Social Sciences Library 2nd floor Paterno.

 [Go to FBIS Full Text \(Foreign Broadcast Information Service\)](#)

FBIS Index (Foreign Broadcast Information Service)

An index to the microfiche collection FBIS Daily Reports, which include translations of broadcasts, news agency transmissions, newspapers, periodicals, and government statements from nations around the world are the sources of this information. Microfiche of full reports are available in the Social Sciences Library, 2nd floor Paterno.

 [Go to FBIS Index \(Foreign Broadcast Information Service\)](#)

Federal News Service

Search Federal News Service transcripts.

 [Go to Federal News Service](#)

Federal R&D; Project Summaries (grants)

This database provides information on research grants awarded by the U.S. Department of Energy, the National Institutes of Health, and the National Science Foundation. The database includes current grants, and several years of retrospective information.

 [Go to Federal R&D; Project Summaries \(grants\)](#)

Feminae: Medieval Women and Gender Index (formerly Medieval Feminist Index)

The Medieval Feminist Index covers journal articles, book reviews, and essays in books about women, sexuality, and gender during the Middle Ages. Librarians and scholars began compiling the index (MFI) in July 1996. Books written by a single author are not included. To locate these, search The CAT.

 [Go to Feminae: Medieval Women and Gender Index \(formerly Medieval Feminist Index\)](#)

FIAF International FilmArchive Database

FIAF (International Federation of Film Archives) International FilmArchive Database contains information from the following print resources: The International Index to Film Periodicals 1972-9/2002; The International Index to TV Periodicals 1979-9/2002; List of periodicals indexed; Treasures from the Film Archives; Film/TV Documentation Collections and FIAF member publications.

 [Go to FIAF International FilmArchive Database](#)

FIAF Members Publications

Full annotated bibliographic citations to books, pamphlets, programmes, and other materials published since 1966 by FIAF archives.

 [Go to FIAF Members Publications](#)

Film & Television Literature Index

Film & Television Literature Index is a comprehensive bibliographic database covering the entire spectrum of television and film writing, including theory, preservation and restoration; writing, production, cinematography; production and film and television reviews. It has been designed for use by a diverse audience including film scholars, college students, and general viewers. Publications include Film Journal International, Journal of British Cinema & Television, Film Criticism, Post Script, Variety, and more as well as technical publications such as SMPTE. Mirroring the international film & television industries and cultures, FTLI also includes publications such as Cahiers du Cinema, Filmihullu, SegnoCinema, and Kinetoscopio. Subject coverage includes film & television theory, preservation & restoration, writing, production, cinematography, technical aspects, and reviews.

 [Go to Film & Television Literature Index](#)

Film Literature Index

The Film Literature Index (FLI) annually indexes 150 film and television periodicals from 30 countries cover-to-cover and 200 other periodicals selectively for articles on film and television. The periodicals range from the scholarly to the popular. More than 2,000 subject headings provide detailed analysis of the articles. ##The National Endowment for the Humanities awarded Indiana University a grant to convert the print version of the Film Literature Index (FLI) to electronic form. The FLI Online contains approximately 700,000 citations to articles, film reviews and book reviews published between 1976-2001.

 [Go to Film Literature Index](#)

Film/TV Collections

The International Directory of Film and TV Documentation Collections contains information about collections of paper archives, scripts, press materials, stills, posters, and all other film documentation held in more than 145 of the world's foremost film archives, libraries, and educational institutions in fifty-four countries. Entries include contact information, descriptions of each collection's scope and contents, and access guidelines.

 [Go to Film/TV Collections](#)

Firstgov.gov

FirstGov.gov is the official U.S. gateway to all government information.

 [Go to Firstgov.gov](#)

Food Science Technology Abstracts (FSTA)

FSTA contains comprehensive coverage of all aspects of food science, food technology and food-related human and pet nutrition, including: raw materials and ingredients; manufacturing & distribution; food safety; product development & consumer issues; food biotechnology; functional and novel foods; food additives, nutrition and packaging. The database contains information from scientific journals, patents, books, conference proceedings, reports, theses, standards, legislation and more. Coverage: 1969 ÅçÀÊÀ~ Present.

 [Go to Food Science Technology Abstracts \(FSTA\)](#)

Foreign Law Guide

Foreign Law Guide is a comprehensive resource which provides essential information on primary and secondary sources of law for many foreign jurisdictions. It provides the researcher with complete bibliographic citations to legislation, the existence of English translations whenever possible, and selected references to secondary sources in English. It is arranged by country and includes an introduction to the legal system of that country and lists the codes, session laws, and court reports available in print and on the Internet. Each country also contains a section arranged by subject that outlines the major laws for the subject and provides references to English translations, when available.

 [Go to Foreign Law Guide](#)

FRANCIS

A multilingual, multidisciplinary database covering the humanities and social sciences. Its broad subject areas and international scope include topics such as archaeology, geography, linguistics, philosophy, religion, and sociology. Most of the indexing is for journal articles (from roughly 4000 journals) but some conference papers and books are also covered. Indexing began in 1984 and is updated monthly.

 [Go to FRANCIS](#)

Fred Waring Collection

Bandleader, choral conductor, glee club pioneer, music educator, entrepreneur and renaissance man Fred Waring was a pioneer in every field of show business as well as music education and manufacturing. As the guiding force behind his large musical organization, he and his musicians earned accolades from listeners and critics alike throughout a career that spanned almost the entire 20th century.

 [Go to Fred Waring Collection](#)

Gale Virtual Reference Library

A collection of over 400 reference resources covering **A-Z** Abbreviations, Africa, African Americans, Aging, AIDS, Alcohol, Almanacs, America, American, Animals, Anthropology, Arts, Asia, Authors, Biodiversity, Bioethics, Biographies, Biography, Biology, Bisexual, Bisexuals, Bisexuality, Black, Blacks, Buddhism, Business plans, Cancer, Careers, Catholic, Chemistry, Children's Literature, Cinema, Cities, Civil Rights, Civilization, Clothing, Colleges, Communication, Companies, Company History, Computer Science, Conflicts, Congress, Constitution, Correctional Systems, Countries, Crime, Culture, Cultures, Data, Death, Decades, Dictionaries, Dictionary, Directories, Directory, Disorders, Distribution, Drama, Drugs, Earth Science, Eating Disorders, Economics, Education, Encyclopedias, Endangered Species, Energy, Environment, Ethics, Europe, Family, Fashion, Fellowships, Feminism, Film, Finance, Food, Forensics, Gay, Gender, Genetics, Genocide, Geographical, Geography, Government, Depression, Health, History, Holocaust, Humanities, Immigration, India, Industries, Islam, Justice, Knowledge Management, Labor, Law, Leisure, Lesbian, Literary, Literature, Loans, Management, Manufacturing, Marriage, Mathematics, Medicine, Middle East, Military, Labor, Movies, Multicultural, Musicians, Nations, Newsmakers, Novels, Nursing, Obesity, Occupations, Patients, Philosophy, Physics, Poetry, Poets, Policy, Politics, Pollution, Population, Poverty, Presidents, Primary Sources, Prisons, Psychoanalysis, Psychology, Public Health, Punishment, Recreation, Reference, Religion, Renaissance, Revolution, Scholarships, Science, Security, Sex, Sexuality, Short stories, Social Trends, Society, Sociology, Space Exploration, Sports, States, Statistics, Technologies, Technology, Telecommunications, Television, Terrorism, Theatre, Tobacco, Trade Unions, Virtual, War, Water, Weather, Women, World, Writers, Yearbook.

 [Go to Gale Virtual Reference Library](#)

Gallery Watch (Federal Budget and Bill Tracking)

Provides comprehensive bill histories for legislation since the 105th Congress. Also includes Line item budget information for FY 1978-Current

 [Go to Gallery Watch \(Federal Budget and Bill Tracking\)](#)

Gallup Brain

The Gallup Brain is a searchable, living record of 70 years of public opinion. Inside, you'll find answers to more than 136,000 questions, and responses from more than 3.5 million people interviewed by The Gallup Poll since 1935. This unparalleled public opinion database also houses Gallup Poll News Service articles, Gallup Poll Tuesday Briefing articles, and Gallup Management Journal articles that feature in-depth public opinion and management data analyses. Replicas of historical news stories and press releases are available as well.

 [Go to Gallup Brain](#)

Gartner Reports (Information Technology)

A comprehensive collection of current research reports on business-related aspects of Information Technology.

 [Go to Gartner Reports \(Information Technology\)](#)

GDF Online (Global Development Finance Online)

Global Development Finance (GDF) is the World Bank's annual report on external financing prospects for developing and transition countries. It tracks the yearly movement of international capital flows to developing countries, and analyzes policy issues for developing countries. GDF provides statistical data for 137 countries. Data may be displayed as charts or maps and exported.

 [Go to GDF Online \(Global Development Finance Online\)](#)

GEOBASE

GEOBASE contains citations and abstracts to worldwide literature on geography, geology, ecology, international development, energy, hydrology and related disciplines. Coverage: 1980 to the present. Updates: monthly

 [Go to GEOBASE](#)

GEOBIB (Online Geographical Bibliography)

Indexes geographical publications (books, periodical articles, pamphlets, government documents, maps and atlases) from 1984-present. Replaces the paper title, Current Geographical Publications, produced by the American Geographical Society Library, UW-Milwaukee.

 [Go to GEOBIB \(Online Geographical Bibliography\)](#)

Geological Society of America journals online

Full-text of journals published by the Geological Society of America, from 1988-date.

 [Go to Geological Society of America journals online](#)

GeoRef

GeoRef contains over 2 million references to geoscience journal articles, books, maps, conference papers, reports, theses and dissertations. Covers the geology of North America from 1785 to the present and the geology of the rest of the world from 1933 to the present. The database includes references to all publications of the U.S. Geological Survey, and US Canadian theses in the geosciences.

 [Go to GeoRef](#)

GeoScienceWorld (GSW)

A comprehensive Internet resource for research and communications in the geosciences, built on a core database aggregation of peer-reviewed journals indexed, linked, and inter-operable with GeoRef.

 [Go to GeoScienceWorld \(GSW\)](#)

GPO Access via Firstgov

The U.S. Government Printing Office disseminates official information from all three branches of the Federal Government.

 [Go to GPO Access via Firstgov](#)

GrayLIT Network (technical reports)

This resource contains recent full-text technical reports from the U.S. Departments of Energy and Defense, several NASA labs, and the Environmental Protection Agency. Coverage varies, but usually includes reports from the mid-1990s to the present.

 [Go to GrayLIT Network \(technical reports\)](#)

Grove Art Online (Dictionary of Art)

Grove Art Online provides Web access to the entire text of The Dictionary of Art with quarterly additions of new material and updates to the text, plus extensive image links and all the sophisticated search advantages possible with an online reference source.

 [Go to Grove Art Online \(Dictionary of Art\)](#)

Grove Music Online (New Grove Dictionary of Music)

Grove Music Online offers a dynamic research tool combining the full text of the 29-volume print edition with the added benefit of sophisticated search capabilities, one-click cross-referencing, and an ever increasing network of web-links to musical sites around the world.

 [Go to Grove Music Online \(New Grove Dictionary of Music\)](#)

Guide to Computing Literature

The [ACM] Guide to Computing Literature consists initially of more than 350,000 citations of core works in computing covering the last fifteen years, with a mid-term growth goal of one million works. These works are of all types (journal articles, proceeding papers, books, technical reports, dissertations, among others), and are from all the major publishers in the discipline. A wide search of the world's computing literature is made possible by the "Online Guide", which also includes reference linking.

 [Go to Guide to Computing Literature](#)

Guides to Microforms (Lexis Nexis)

Guides to Microforms, one of the History Universe products from Lexis Nexis, allows users to search the guides for 195 of the most popular microform collections from University Publications of America (UPA) via the WEB. Coverage will expand with some 50 more titles each year including new titles, backlist titles, and widely-held titles from other microform publishers. ##This source includes the guides for many collections owned by the Penn State University Libraries, including the Papers of the NAACP; Black Workers in the Era of the Great Migration, 1916-1929; the Papers of Eleanor Roosevelt, 1933-1945; and Records of the Southern Christian Leadership Conference, 1954-1970. ## ##NOTE: The Libraries does not own every collection indexed in the Guides to Microforms, and in some cases, the Libraries only owns pieces of a collection. To determine exactly what the Libraries owns, PLEASE search the CAT or go to MicrofinderIndex of Collections available in Microforms.

 [Go to Guides to Microforms \(Lexis Nexis\)](#)

Gutenberg-e

The Gutenberg-e titles combine distinguished and innovative scholarship with creative and thoughtful use of digital technology. The e-books are selected by the American Historical Association and produced by the electronic publishing staff at Columbia University Press. The electronic versions offer elements that cannot be conveyed in print: extensive documentation, hyperlinks to supplementary literature, images, music, video, and links to related web sites.

 [Go to Gutenberg-e](#)

Handbook of Latin American Studies

The Handbook is a bibliography on Latin America consisting of works selected and annotated by scholars. Edited by the Hispanic Division of the Library of Congress, the multidisciplinary Handbook alternates annually between the social sciences and the humanities. Each year, more than 130 academics from around the world choose over 5,000 works for inclusion in the Handbook. Continuously published since 1936, the Handbook offers Latin Americanists an essential guide to available resources.

 [Go to Handbook of Latin American Studies](#)

HAPI (Hispanic American Periodicals Index)

HAPI Online contains complete bibliographic citations to articles, book reviews, documents, original literary works, and other materials about Central and South America, Mexico, the Caribbean basin, the United States-Mexico border region, and Hispanics in the United States appearing in more than 500 key social science and humanities journals published throughout the world.

 [Go to HAPI \(Hispanic American Periodicals Index\)](#)

Hazleton Collegian

The Hazleton Collegian flourished from December 1937 to December 1954. The publication was published monthly through 1941, then became a weekly edition. The title changed to Highacres Collegian in January 1955 and is the current name of the student newspaper. This digital collection is through April 1994.

 [Go to Hazleton Collegian](#)

Health & Psychosocial Instruments - HAPI

Health and Psychosocial Instruments features material on unpublished information-gathering tools for clinicians that are discussed in journal articles, such as questionnaires, interview schedules, tests, checklists, rating and other scales, coding schemes, and projective techniques. The majority of tools are in medical and nursing areas such pain measurement, quality of life assessment, and drug efficacy evaluation. However, HaPI also includes tests used in medically related disciplines such as psychology, social work, occupational therapy, physical therapy, and speech & hearing therapy.

 [Go to Health & Psychosocial Instruments - HAPI](#)

Health and Safety Science Abstracts

This database provides a comprehensive, timely survey of recent work relating to public health, safety, and industrial hygiene. Coverage: 1981-date##Major subject areas included: ##oOccupational Safety and Health ##oTransportation ##oEnvironmental and Ecology ##oFood and Drugs ##oPesticides ##oNatural Disasters, Civil Defense, and Emergency Management ##oFire Safety ##oRadiation Safety, and Electrical Safety ##oConsumer and Recreation Safety ##oErgonomics, and Human Factors ##oDiseases, Injuries and Trauma ##oEpidemiology and Public Health ##oMedical Safety##oToxicology##oCivil and Structural Engineering

 [Go to Health and Safety Science Abstracts](#)

HeinOnline

Hein Online is a full-text research collection offering more than 900 legal journals; federal publications such as the Federal Register, U.S. treaties and agreements, U.S. Supreme Court opinions, federal legislative histories, presidential documents; a collection of legal classics; and Philip C. Jessup International Moot Court competition materials.

 [Go to HeinOnline](#)

Historical Abstracts

Search for articles and other publications on world history from 1450 to present, (except for the United States and Canada which are indexed in the companion work, America: History and Life). The database includes articles in journals worldwide, including a selection of major social science and humanities journals. Also included are references to dissertations and books.##Keywords: early modern, imperialism, exploration, migration, immigration, labor, agriculture, religion, culture, society, politics, economic, war, military, Historiography, ##Europe, European, Western Europe, Northern Europe, Eastern Europe, Central Europe, East Asia, Southeast Asia, South Asia, Ottoman Empire, Middle East, Africa, North Africa, West Africa, Africa South of the Sahara.##Countries include: North Korea, South Korea, Taiwan, Vietnam, India, Nepal, Pakistan, China, Japan, Turkey, Iraq, Iran, Israel, Kuwait, Lebanon, Saudi Arabia, Syria, Austria, Belgium, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, Switzerland, United Kingdom, Britain, England, Russia, Soviet Union, Baltic, Hungary, Poland, Ukraine, Egypt, South Africa

 [Go to Historical Abstracts](#)

Historical Statistics of the United States

Provides a comprehensive compendium of statistics from over 1,000 sources recording every aspect of the history of the United States from population to prices; from voting patterns to Vietnam veterans; from energy to education; from abortions to zinc and everything in between. Over 80 scholars have contributed their efforts and expertise to select, assemble, and document the data, to write the introductory essays, and to analyze the material.

 [Go to Historical Statistics of the United States](#)

History Cooperative E-Journals

The full-text of recent issues of the American Historical Review, the Journal of American History, Labour History, Environmental History, and other journals. Project partners include the American Historical Association, the Organization of American Historians and other publishers.

 [Go to History Cooperative E-Journals](#)

History E-Book Project (ACLS)

The American Council of Learned Societies' History E-Book Project provides online full-text for over 500 works in history, selected for their importance to historical studies. ACLS is collaborating with five Learned Societies and a select group of University Presses to provide access to high-quality works in history. The History E-Book project will be adding approximately 250 books annually to the collection, as well as publishing 85 completely new electronic titles that utilize technology to communicate the results of scholarship in new ways.

 [Go to History E-Book Project \(ACLS\)](#)

History of Science, Technology and Medicine

Describes journal articles, conference proceedings, books, book reviews, and dissertations in the history of science, technology, and medicine and allied historical fields. ##Keywords: History, Agricultural Science, Astrology, Astronomy, Science, Biology, Biotechnology, Chemistry, Computer Science, Electronics, Engineering, Environmental Science, Geography, Historiography, Mathematics, Medical Science, Military Technology, Natural History, Neurosciences, Physics, Public Health

 [Go to History of Science, Technology and Medicine](#)

Homeland Security Digital Library

The Homeland Security Digital Library is sponsored by the U.S. Department of Homeland Security's Office of Grants and Training and the Naval Postgraduate School's Center for Homeland Defense and Security. The HSDL is the nation's premier tool for homeland security policy and strategy research. The collection includes homeland security strategy, policy and research documents published by: Federal, state and local government agencies; International governments and institutions; and Research institutions, universities, think tanks.

 [Go to Homeland Security Digital Library](#)

Hoover's

Hoover's Online provides company and industry information, company news, information on initial public offerings, and career and personal finance information.

 [Go to Hoover's](#)

Horn Book Guide Online (Children's Book Reviews)

The Horn Book Guide Online, updated each spring and fall, publishes short, critical reviews of virtually every hardcover trade book published in the United States for young people. The reviews are clear and succinct (about 60 to 75 words), identifying strengths and weaknesses and rating the books on a scale from one (high) to six. The database is searchable by author, illustrator, title, subject, and bibliographic data, as well as by rating. Currently, there are more than 51,000 full text reviews from 1989 through the current issue.

 [Go to Horn Book Guide Online \(Children's Book Reviews\)](#)

Houben-Weyl Methods in Organic Chemistry

Science of Synthesis is the new edition of the Houben-Weyl Methods in Organic Chemistry, a major reference work that provides synthetic methods for the preparation of organic chemicals. The original edition began publication in 1909 and covers the organic chemistry literature back to 1835. All editions of Houben-Weyl as well as the E-Series are also included as an electronic backfile within Science of Synthesis. Please note that the earlier editions of Houben-Weyl are in German. ##Hazard Information for The Science of Synthesis ## ##WARNING! CAREFULLY READ THE FOLLOWING: ALTHOUGH THE SCIENCE OF SYNTHESIS HAS BEEN WRITTEN BY EXPERTS, THE CUSTOMER AND ANY EMPLOYEES, AGENTS AND CONSULTANTS OF THE CUSTOMER (THE "USER") WHO USE THE SCIENCE OF SYNTHESIS ARE HEREBY ADVISED AND ACKNOWLEDGE AND AGREE THAT THE HANDLING OF CHEMICALS, MICROORGANISMS, AND CHEMICAL APPARATUS CARRIES POTENTIALLY LIFE-THREATENING RISKS. FOR EXAMPLE, SERIOUS DANGERS COULD OCCUR THROUGH QUANTITIES BEING INCORRECTLY GIVEN. THE AUTHORS TOOK THE UTMOST CARE THAT THE QUANTITIES AND EXPERIMENTAL DETAILS DESCRIBED HEREIN REFLECTED THE CURRENT STATE OF THE ART OF SCIENCE WHEN THE WORK WAS PUBLISHED. HOWEVER, THE AUTHORS, EDITORS, AND PUBLISHERS TAKE NO RESPONSIBILITY AS TO THE CORRECTNESS OF THE CONTENT. FURTHER, SCIENTIFIC KNOWLEDGE IS CONSTANTLY CHANGING, AS NEW INFORMATION BECOMES AVAILABLE, THE CUSTOMER AND THE USERS MUST CONSULT IT. ALTHOUGH THE AUTHORS, PUBLISHER, AND EDITORS TOOK GREAT CARE IN PUBLISHING THE SCIENCE OF SYNTHESIS, IT IS POSSIBLE THAT TYPOGRAPHICAL ## ##THE CUSTOMER AND USER CAN FIND UNDER WWW.SCIENCE-OF-SYNTHESIS.COM A NON-EXHAUSTIVE LIST OF INTERNATIONAL SAFETY REGULATIONS, I.E. IT SERVES AS A GENERAL GUIDE. THE CUSTOMER AND USER REMAIN SOLELY RESPONSIBLE FOR IDENTIFYING ALL RELEVANT SAFETY REGULATIONS. THE CUSTOMER SHALL CAUSE ALL OF ITS USERS TO BE FREQUENTLY ALERTED TO THOSE GUIDELINES.

 [Go to Houben-Weyl Methods in Organic Chemistry](#)

Human Population and Natural Resources Management

This database explores human population and demography topics, as well as societal issues involving natural resource management. Coverage includes relevant papers, reports, books and reviews from peer-reviewed scientific journals. Material from conference proceedings and hard-to-find gray literature is summarized. Coverage is from 1995 to date.

 [Go to Human Population and Natural Resources Management](#)

IBIDS (Dietary supplements database)

The International Bibliographic Information on Dietary Supplements (IBIDS) is a database of over 730,000 citations to published, international, scientific literature on dietary supplements, including vitamins, minerals, and botanicals. IBIDS is produced by the Office of Dietary Supplements (ODS) at the National Institutes of Health to assist the public, health care providers, and researchers in locating credible, scientific literature on dietary supplements. Learn more about IBIDS at http://dietary-supplements.info.nih.gov/Health_Information/IBIDS_Overview.aspx#about.

 [Go to IBIDS \(Dietary supplements database\)](#)

IBISWorld

IBISWorld provides over 700 full-text industry reports, 700 US industry risk rating reports, and information on over 8000 Publicly Traded US Companies as well as hundreds of economic and demographic profiles.

 [Go to IBISWorld](#)

IBZ (International Bibliography of Periodical Literature)

IBZ is an index of periodical literature covering basic research from all fields of knowledge, and is particularly strong in the humanities and the social sciences. Over 11,000 periodicals are indexed by this multilingual database, now containing over 1.7 million records. It is international in scope, and indexes a significant proportion of the periodicals published on the European continent. ##Coverage: 1984-present Current edition. Updates: Continuous.

 [Go to IBZ \(International Bibliography of Periodical Literature\)](#)

ICPSR (Inter-university Consortium for Political and Social Research)

The Inter-university Consortium for Political and Social Research (ICPSR) is a membership-based, non-profit data archive located at the Institute for Social Research at the University of Michigan. It serves member colleges and universities in the United States and abroad by

providing: Access to the world's largest archive of computerized social science data, Training facilities for the study of quantitative social analysis techniques, Resources for social scientists using advanced computer technologies.

 [Go to ICPSR \(Inter-university Consortium for Political and Social Research\)](#)

IDZ Index of German Journals 1750-1815

The Index of German Journals contains 100,000 records of articles published 1750 - 1815. These articles are indexed with German subject headings.

 [Go to IDZ Index of German Journals 1750-1815](#)

IEEE Xplore

IEEE Xplore contains the full text of all IEEE and IEE journal articles, conference papers, and standards published since 1988. The material can be accessed through a searchable database or by browsing.

 [Go to IEEE Xplore](#)

IIBP - International Index to Black Periodicals

IIBP Full Text draws its current content from more than 150 international scholarly and popular periodicals in Black Studies and contains full-text coverage of 40 core Black Studies periodicals. It covers a wide array of humanities-related disciplines including art, cultural criticism, economics, education, health, history, language and literature, law, philosophy, politics, religion, and sociology among others.

 [Go to IIBP - International Index to Black Periodicals](#)

Image Databases at Penn State

Collected summary for Image Databases at Penn State

 [Go to Image Databases at Penn State](#)

IMDb

The Internet Movie Database (IMDb) is a collection of movie information. IMDb tries to catalog every pertinent detail about a movie, from who was in it, to who made it, to trivia about it, to filming locations, and even where one can find reviews and fan sites on the web. ##IMDb then do their best to present this information in a manner that is easy to search and access.

 [Go to IMDb](#)

Index Islamicus

Index Islamicus is an international bibliography of publications in European languages covering all aspects of Islam and the Muslim world, including history, beliefs, societies, cultures, languages, and literature. The database includes material published by Western orientalists, social scientists and Muslims and contains indexing for 3,470 titles with coverage dating back to 1906. Index Islamicus is produced by Brill Academic Publishers.

 [Go to Index Islamicus](#)

Index of Christian Art

A descriptive and bibliographic index of thematic and iconographic content of early Christian and medieval art from apostolic times to 1400 A.D. The online database contains all of the works electronically processed for the print version of the index at Princeton University since 1991 (over 23,000 work of art records as of June 2002), including a growing number of images and bibliographic entries covering iconography, art history, archaeology, and classical and religious studies.

 [Go to Index of Christian Art](#)

Index to Foreign Legal Periodicals

The Index to Foreign Legal Periodicals provides access to legal literature worldwide and covers all forms of foreign law. Types of documents covered include journal articles, congress reports, essay collections, yearbooks, and book reviews. Coverage is 1985 to current.

 [Go to Index to Foreign Legal Periodicals](#)

Index to Jewish Periodicals

Index to Jewish Periodicals is the definitive index on Jewish history, activity and thought. This database provides a comprehensive guide to English-language articles, book reviews, and feature stories in more than 160 journals devoted to Jewish affairs. Index to Jewish Periodicals is intended for students of Jewish thought and others interested in contemporary Jewish and Middle Eastern affairs. Journal coverage dates back as far as 1988.

 [Go to Index to Jewish Periodicals](#)

Index to Legal Periodicals Full-Text

Wilson's Index to Legal Periodicals indexes legal journals, law reviews, yearbooks, and bar association publications from 1918 to the present. Coverage also includes books and full-text of selected articles from the early 1990s to the present.

 [Go to Index to Legal Periodicals Full-Text](#)

Index to Theses

A comprehensive listing of theses with abstracts accepted for higher degrees by universities in Great Britain and Ireland since 1716.

 [Go to Index to Theses](#)

Index Translationum

The INDEX TRANSLATIONUM data base contains cumulative bibliographical information on books translated and published in about a hundred of UNESCO's Member States since 1979 and totaling some 1,300,000 notices in all disciplines: literature, social and human sciences, natural and exact sciences, art, history and so forth. It is planned to update this every quarter.

 [Go to Index Translationum](#)

Indiana University Library Catalog (IUCAT)

 [Go to Indiana University Library Catalog \(IUCAT\)](#)

informaworld

informaworld is an online publications website from Informa, hosting journals, e-books, reference works and abstracts from Taylor & Francis, Routledge, Psychology Press and Informa Healthcare.

 [Go to informaworld](#)

infoUSA (USDS)

Authoritative resource for foreign audiences seeking information about American society, political processes, official U.S. policies and culture.

 [Go to infoUSA \(USDS\)](#)

ingentaconnect.com (Ingenta)

ingentaconnect.com is a comprehensive multi-disciplinary document delivery service providing access to thousands of online journals from leading scholarly, academic and business publishers.

 [Go to ingentaconnect.com \(Ingenta\)](#)

Inspec (Ei Village 2)

Inspec is a leading bibliographic information database covering the fields of physics, electronics, computing, control engineering and information technology with more than 7.7 million records taken from 3,500 technical and scientific journals and 1,500 conference proceedings. Coverage: 1896-present.

 [Go to Inspec \(Ei Village 2\)](#)

Institute of Physics Journals (IOP)

Search electronic journal articles from the Institute of Physics.

 [Go to Institute of Physics Journals \(IOP\)](#)

InterAM Database (National Law Center for Inter-American Free Trade)

The National Law Center for Inter-American Free Trade's InterAm Database is an on-line collection of laws, regulations, case law, and secondary source materials for countries in the Americas. This collection is primarily in the original language (Spanish or Portuguese) but some materials are translated into English. The database is updated daily and arranged in over 25 topical areas related to trade and investment.

 [Go to InterAM Database \(National Law Center for Inter-American Free Trade\)](#)

International Encyclopedia of Social and Behavioral Sciences

The International Encyclopedia of the Social and Behavioral Sciences is the online equivalent of the 24 volume encyclopedia published in 2002. Content is organized around more than 30 primarily interdisciplinary topical areas of active research and significant promise (for example, memory, crime and violence, markets, modernization), combined with the categories: Overarching Topics, Disciplines, Intersecting fields, and Applications. Includes extensive indices, searchable full-text, and embedded electronic reference links. Annual updates are planned for release from 2004.

 [Go to International Encyclopedia of Social and Behavioral Sciences](#)

International FilmArchive

The FIAF International FilmArchive Database includes complete data from all volumes (1972 to the present) of the International Index to Film Periodicals plus records from its TV-related companion (1979 to the present).

 [Go to International FilmArchive](#)

International Financial Statistics Online

IFS Online is the principal statistical publication of the International Monetary Fund. Tables for each Fund member country include data on the country's exchange rates, Fund position, international liquidity, money and banking accounts, interest rates, prices, production, international transactions, government accounts, national accounts, and population. Selected series are published in area and world tables. Data may be downloaded as HTML, MS Excel, comma-delimited, or tab-delimited files. Some series begin with 1945. Updated monthly.

 [Go to International Financial Statistics Online](#)

International Index to Black Periodicals Full Text

IIBP Full Text draws its current content from more than 150 international scholarly and popular periodicals in Black Studies and contains full-text coverage of 40 core Black Studies periodicals. It covers a wide array of humanities-related disciplines including art, cultural criticism, economics, education, health, history, language and literature, law, philosophy, politics, religion, and sociology among others.

 [Go to International Index to Black Periodicals Full Text](#)

International Index to Music Periodicals

International Index to Music Periodicals Full Text (IIMPT) is an outstanding resource for music periodicals available on the web. It enables you to find articles on a comprehensive variety of subjects about music from a wide range of scholarship.

 [Go to International Index to Music Periodicals](#)

International Index to the Performing Arts

International Index to the Performing Arts Full Text (IIPAF) is a dynamic resource for the performing arts that provides indexing and abstracts for more than 210 international journals.

 [Go to International Index to the Performing Arts](#)

International Law in Domestic Courts

International Law in Domestic Courts is a case reporting service covering cases on public international law issues from over 60 jurisdictions. The cases feature full texts of judgments in their original language, English translations of key passages, and detailed analysis of the core legal issues. Coverage is from 2000 to the present.

 [Go to International Law in Domestic Courts](#)

International Medieval Bibliography

Indexes articles in journals, conference proceedings, and essay collections published worldwide. Publications dealing with the period 400-1500 and published since 1967 are covered. Subject areas include: Classics, Language and Literature, History and Archaeology, Theology and Philosophy, Arabic and Islamic Studies, Art History, Music, Theatre and Performance Arts, Crusades, Hagiography, Onomastics, Numismatics, Historiography, Epigraphy, medieval Manuscripts, Charters, Documents, Middle Ages.

 [Go to International Medieval Bibliography](#)

Internet Legal Resource Guide

A categorized index of more than 4000 select web sites in 238 nations, islands, and territories, as well as thousands of locally stored web pages, legal forms, and downloadable files, this site was established in 1995 to serve as a comprehensive resource of the information available on the Internet concerning law and the legal profession, with an emphasis on the United States of America.

 [Go to Internet Legal Resource Guide](#)

iPoll

comprehensivesource for US nationwide public opinion data from academic, commercial and media survey organizations such as ABC News, CBS News, Fox News, The Gallup Organization, Los Angeles Times, National Opinion Research Center, NBC News, New York Times, Princeton Survey Research Associates, the Program on International Policy Attitudes at the University of Maryland, USA Today and The Washington Post. iPoll is organized at the question-level providing the tools to sift through 350,000 questions asked on national public

opinion surveys since 1935.

 [Go to iPoll](#)

ITER: Gateway to the Middle Ages and Renaissance

ITER is an interdisciplinary database for finding information on topics pertaining to the Middle Ages and the Renaissance (400-1700AD). The database includes citations for books, articles, and selected reviews. Iter Italicum, contains descriptions of Renaissance manuscripts in libraries and archives worldwide. ##Subject areas include: Classics, Language and Literature, History and Archaeology, Theology and Philosophy, Arabic and Islamic Studies, Art History, Music, Theatre and Performance Arts, Crusades, Hagiography, Onomastics, Numismatics, Historiography, Epigraphy, Medieval Manuscripts, Charters, Documents.

 [Go to ITER: Gateway to the Middle Ages and Renaissance](#)

Jack Rabin Collection on Alabama Civil Rights and Southern Activists

The Jack Rabin Collection on Alabama Civil Rights and Southern Activists is a compact but highly complex, multi-layered compilation of documents, sound recordings, and visual images.

 [Go to Jack Rabin Collection on Alabama Civil Rights and Southern Activists](#)

JapanKnowledge

JapanKnowledge is a portal to Japanese encyclopedias, dictionaries and databases that provide access to various reference sources in Japan including Encyclopedia Nipponica, Kodansha Encyclopedia of Japan, Progressive Japanese-English/English-Japanese Dictionaries, Gendai Yogo No Kiso Chishiki, Nihon Jinmei Daijiten, recent issues of the Economist Japanese edition, collection of Toyo Bunko series and other visual and sound databases. The Kodansha Encyclopedia of Japan is in English, the remaining reference sources are in Japanese.

 [Go to JapanKnowledge](#)

Johns Hopkins Guide to Literary Theory

The Guide consists of 226 alphabetically arranged entries on individual critics and theorists, critical and theoretical schools and movements, and the critical and theoretical innovations of specific countries and historical periods.

 [Go to Johns Hopkins Guide to Literary Theory](#)

Journal Citation Reports (JCR)

Journal performance metrics offer a systematic, objective means to critically evaluate the world's leading journals##Delivers quantifiable statistical information based on citation data ##Helps determine a publication's impact and influence in the global research community ##Includes journal and category data

 [Go to Journal Citation Reports \(JCR\)](#)

JSTOR

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR](#)

JSTOR African American Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR African American Studies](#)

JSTOR African Studies

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 [Go to JSTOR African Studies](#)

JSTOR Anthropology

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Anthropology](#)

JSTOR Archaeology

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Archaeology](#)

JSTOR Asian Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Asian Studies](#)

JSTOR Biological Sciences

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Biological Sciences](#)

JSTOR Business

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Business](#)

JSTOR Classical Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly

 Go to JSTOR Classical Studies

 [Go to JSTOR Ecology](#)

 Go to JSTOR Ecology & Botany Collection

 [Go to JSTOR Economics](#)

 Go to JSTOR Education

 [Go to JSTOR Finance](#)

 [Go to JSTOR General Science](#)

 [Go to JSTOR Geography](#) [Go to JSTOR History](#)

 Go to JSTOR History of Science

 Go to JSTOR Language & Literature

 Go to JSTOR Latin American Studies

 Go to JSTOR Mathematics

 [Go to JSTOR Middle East Studies](#)

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly

journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Music](#)

JSTOR Philosophy

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Philosophy](#)

JSTOR Political Science

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Political Science](#)

JSTOR Population Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Population Studies](#)

JSTOR Slavic Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Slavic Studies](#)

JSTOR Sociology

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Sociology](#)

JSTOR Statistics

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Statistics](#)

Kirk-Othmer Encyclopedia of Industrial Chemistry

The Kirk-Othmer Encyclopedia of Chemical Technology is a major reference resource for chemistry, chemical engineering, and related disciplines. It contains substantial articles on topics in these areas and has extensive bibliographies that accompany the articles.

 [Go to Kirk-Othmer Encyclopedia of Industrial Chemistry](#)

Knovel (engineering and science handbooks)

Knovel contains over 800 engineering and science handbooks, and related databases. The system has interactive capabilities that provide analytical tools to analyze the data they contain and produce tables and graphs.

 [Go to Knovel \(engineering and science handbooks\)](#)

Kraus Curriculum Development Library(KCDL)Online

Kraus Curriculum Development Library (KCDL) Online is the premier searchable database of retrospective and current collections of curriculum guides, lesson plans, frameworks, standards, and teaching practices for PreK-12, and Adult Basic Education. Information in the database covers all disciplines, subjects, and grade levels found in PreK through 12th grade education and Adult Basic Education.

 [Go to Kraus Curriculum Development Library\(KCDL\)Online](#)

Lancaster Farming

Lancaster Farming is one of Pennsylvania's most popular farming newspapers and celebrated its 50th anniversary in November 2005.

 [Go to Lancaster Farming](#)

Latinobarometro

An annual public opinion survey that involves interviews in 18 Latin American countries, representing more than 400 million inhabitants. Topics covered include: Economy and International Trade; Integration and Trade Agreements; Political Democracy and Social and Political Institutions; Distribution of Wealth; Civic Culture; Social Capital and Participation; Environment; Gender and Discrimination; Current Topics

 [Go to Latinobarometro](#)

LegalTrac

Gale Group Infotrac database for research in case law, government regulations, the practice of law, statutes, taxation and international law. Covers all major law reviews, and specialty law and bar association journals.

 [Go to LegalTrac](#)

LexisNexis Academic

Provides access to a wide range of news, business, legal, and reference information. Covers many news sources for 20 years. Court cases and statutes from all federal and state jurisdictions are included. Most resources can be searched in full text.

 [Go to LexisNexis Academic](#)

LexisNexis Congressional

LexisNexis Congressional Universe provides access to the best web resources for congressional and legislative information. This includes services available only to Penn State Users only, such as Congressional Universe (1789-to date) as well as other free services that provide similar or related information such as Thomas (1993-to date) and GPO Access (1993-to date). ##The Guided Tour provides a step-by-step approach to congressional and legislative information for users who have never done research of this type before. ##Updates: Continuous.

 [Go to LexisNexis Congressional](#)

LexisNexis State Capital

State Capital Universe is the world's most comprehensive access to state government information. The service provides access to: state bills and laws; constitutions; proposed and enacted regulations; newspapers of record; articles about legislative issues affecting the states; legislature membership. Users can search for information about one state, any combination of states, or all 50 states from a single source

 [Go to LexisNexis State Capital](#)

LexisNexis Statistical

Statistical Universe is a powerful index to statistics and data contained in federal agency government publications. It duplicates all American Statistics Index (ASI) abstract and index records (with monthly updates). In addition, it also links to 800 full-text documents published since 1994 and stored on LEXIS, and links to 2,000 publications on federal agency Web sites. The University Library owns most of these collections in paper or microfiche format that do not contain full-text links. ASK for assistance locating information at any University Library Service Desk. The abstracts of all publications covered by ASI in 1996-97 include active links to agency Web sites where the full-texts can be accessed. The primary purpose of these links is to supplement the coverage of Statistical Universe as its full-text coverage expands. The links also enable users to explore an agency's Web site.

 [Go to LexisNexis Statistical](#)

LGBT Life

GLBT Life is the premier resource to the world's literature regarding gay, lesbian, bisexual and transgender issues. Designed for academic, professional and public communities, this database contains indexing and abstracts for GLBT-specific core periodicals. The database includes current coverage of these sources, as well as deep backfiles for key publications - many back to the first published issue. Examples of publications indexed back to their inaugural issues include The Advocate (1967), Journal of Homosexuality (1974) and Harvard Gay and Lesbian Review (1994). GLBT Life provides comprehensive coverage of traditional academic, cultural, lifestyle and regional publications, including Journal of Bisexuality, Gay Times, Lesbian News, Journal of Lesbian Studies, Washington Blade, Bay Area Reporter, etc. In addition, other source-types such as monographs and reference books as well as grey literature including newsletters, case studies, dissertations, etc. are represented. Disciplines covered by GLBT Life include civil liberties, culture, employment, family, history, psychology, religion, sociology and more.

 [Go to LGBT Life](#)

Libraries by Geographic Location

Lists different types of libraries by geographic location.

 [Go to Libraries by Geographic Location](#)

Library and Information Science Abstracts (LISA)

Identifies articles on librarianship, information science, and related fields. Includes many related areas such as publishing, and applications of information technology in specific fields. The database abstracts over 550 periodicals from more than 60 countries and in over 20 different languages.

 [Go to Library and Information Science Abstracts \(LISA\)](#)

Library, Information Science & Technology Abstracts

Library Literature is an index to journal articles, books, pamphlets, and theses on library and information science published since December 1984. It also indexes editorials that appear as regular features in library science journals, along with book reviews that appear as part of review articles. One can search Library Literature by author, title, subject, or words anywhere in the indexed items records. Searches can be limited by the language or the publication year of the sources. Help screens are available for each function of the database.

 [Go to Library, Information Science & Technology Abstracts](#)

Library Literature and Information Science

Library Literature is an index to journal articles, books, pamphlets, and theses on library and information science published since December 1984. It also indexes editorials that appear as regular features in library science journals, along with book reviews that appear as part of review articles. One can search Library Literature by author, title, subject, or words anywhere in the indexed items records. Searches can be limited by the language or the publication year of the sources. Help screens are available for each function of the database.

 [Go to Library Literature and Information Science](#)

Library of Congress Online Catalog

The Library of Congress Online Catalog is a database of books, serials, computer files, manuscripts, cartographic materials, music, sound recordings, and visual materials in the Library's collections.

 [Go to Library of Congress Online Catalog](#)

Library of Latin Texts

CLCLT is the world's leading database for Latin texts. It contains texts from the beginning of Latin literature (Livius Andronicus, 240 BC) through to the texts of the Second Vatican Council (1962-1965). It covers all the works from the classical period, the most important patristic works, a very extensive corpus of Medieval Latin literature as well as works of recent Latin literature. The complete works of writers such as Cicero, Virgil, Augustine, Jerome, Gregory the Great, Anselm of Canterbury, Bernard of Clairvaux and Thomas a Kempis can thus be consulted. The texts have been taken from the Corpus Christianorum series and from many other leading editions.

 [Go to Library of Latin Texts](#)

Linguistics and Language Behavior Abstracts

The definitive database on the nature and use of language, Linguistics and Language Behavior Abstracts covers three fundamental areas: research in linguistics (the nature and structure of human speech); research in language.

 [Go to Linguistics and Language Behavior Abstracts](#)

Literary Theory

Literary Theory traces the history of literary theory and criticism from Plato to the present. It contains over 800 works by more than 350 writers. Among the works included are: formal treatises on criticism, essays and manifestos, literary prefaces, theories of imagination, taste and aesthetics, and major examples of contemporary theory.

 [Go to Literary Theory](#)

Literature Online Fulltext

With over a third of a million full-text works of poetry, prose and drama in English, together with the definitive online criticism and reference library, Literature Online is the world's largest cross-searchable database of literature and criticism.

 [Go to Literature Online Fulltext](#)

LLMC Digital

LLMC Digital is a service that makes available online many of the law and law-related materials on microfiche published by the Law Library Microform Consortium. The current online collection includes U.S. federal executive, legislative, and judicial materials, as well as selected materials from state and foreign jurisdictions.

 [Go to LLMC Digital](#)

London Times (Palmer's Index) 1790-1905

Palmer's Index to The Times contains records from the 461 printed volumes of Palmer's Index to the London Times newspaper. Articles can be located by broad subject headings, date of publication, or title keywords. Obituaries are under the heading "Deaths". For articles after 1905 consult the print volumes for the Official Index to the Times, available in the Microforms and Newspapers Library, Ground Floor West Pattee (Call # A121.T46). The text of the Index is on microfilm, Call # Microfilm E200

 [Go to London Times \(Palmer's Index\) 1790-1905](#)

Making of Modern Law

"The Making of Modern Law: Legal Treatises 1800-1926" is a full-text collection of Anglo-American Legal Treatises. It allows full-text searching of more than 21,000 works including casebooks, local practice materials, form books, manuals, letters, speeches, and more.

 [Go to Making of Modern Law](#)

Materials Business File

Covers technical and commercial developments in iron and steel, nonferrous metals, composites, plastics, etc. Over 1,300 publications including magazines, trade publications, financial reports, dissertations, and conference proceedings are reviewed for inclusion. Concentrates on the commercial aspects of materials science rather than on the scientific; however, new technologies, new alloys, and new materials announced by the trade press are included, along with other industry developments.

 [Go to Materials Business File](#)

Materials Science

These databases provide access to the worldwide literature of materials science and engineering. The collection includes six databases: (1) METADEX (otherwise known as "Metals Abstracts") (2) Engineered Materials Abstracts (3) Materials Business File (4) Mechanical Engineering Abstracts (5) WELDASEARCH (6) World Ceramics Abstracts Coverage varies among the databases with the oldest coverage dating from 1966 to date. Access is provided via Cambridge Scientific Abstracts. Current edition. Updates: Continuous

 [Go to Materials Science](#)

MathSciNet

MathSciNet is a comprehensive database covering the world's mathematical literature of the past 61 years. It provides Web access to reviews and bibliographic data from Mathematical Review and Current Mathematical Publications. It provides links to original articles and free access to Featured Reviews.

 [Go to MathSciNet](#)

MBS ONLINE (International Statistics)

Economic, industrial, trade, and population statistics (monthly or quarterly) from more than 200 countries. Data may be graphed, printed, or downloaded. Compiled by the United Nations.

 [Go to MBS ONLINE \(International Statistics\)](#)

MD Consult

MD-Consult is a searchable collection of full text medical reference books, journals, drug information, peer-reviewed clinical practice guidelines and customizable patient education materials. Although originally designed for physicians, nurses, pharmacists, physician assistants and other allied health professionals will also find it useful.

 [Go to MD Consult](#)

Medianet (Penn State's audiovisual database)

Lists the films and videotapes which are available in the University's Media & Technology Support Services collection. Use this database to identify information about specific items in the collection and determine their availability. For faculty or rental scheduling of audiovisual materials in the collection: At University Park, call 863-3202 or 865-6314 or fax 863-2574 to schedule a film or video. At a Penn State College Campus, contact the instructional services specialist for more information. Non-local rental customers should call (800) 826-0132. Current collection. Updates: Continuous. Coverage: Films and Videos from the University's collection

 [Go to Medianet \(Penn State's audiovisual database\)](#)

Mental Measurements

The database covers more than 2,200 commercially-available tests in categories such as personality, developmental, behavioral assessment, neuropsychological, achievement, intelligence and aptitude, educational, speech & hearing, and sensory motor.

 [Go to Mental Measurements](#)

MergentOnline (company information)

MergentOnline (formerly FISonline) is a subscription-based service offering information on over 15,000 U.S. public companies and 30,000 non-U.S. public companies. MergentOnline is produced by Mergent, Inc., formerly known as Moody's. Mergent/Moody's is a publisher of detailed business descriptions, corporate histories and financial statements since 1900.

 [Go to MergentOnline \(company information\)](#)

MERLOT (Multimedia Educational Resources for Learning and Online Teaching)

The Multimedia Educational Resource for Learning and On-Line Teaching (MERLOT) is a high quality collection of interactive learning materials, assignments, reviews, and people.

 [Go to MERLOT \(Multimedia Educational Resources for Learning and Online Teaching\)](#)

METADEX (metals)

Provides comprehensive coverage of international metals literature. The Metals Abstracts portion of the file includes references to about 1,200 primary journal sources. Alloys Index supplements Metals Abstracts by providing access to the records through commercial, numerical, and compositional alloy designations; specific metallic systems; and intermetallic compounds found within these systems. Informative abstracts are included for most records since 1979.

 [Go to METADEX \(metals\)](#)

Meteorological & Geostrophysical Abstracts

Meteorological & Geostrophysical Abstracts (MGA) contains records drawn from the World's literature on meteorology, climatology, atmospheric chemistry and physics, astrophysics, hydrology, glaciology, physical oceanography and environmental sciences. Summaries from over 600 journal titles, as well as conference proceedings, books, technical reports and other monographs, are included. Each record includes complete citation information, Universal Decimal Classification subject classifications, and subject descriptors drawn from the MGA Controlled Vocabulary. MGA is produced by the American Meteorological Society and is published by CSA.

 [Go to Meteorological & Geostrophysical Abstracts](#)

Michigan State University Library Catalog

MicroFinder

This web site provides access to over 500 collections and 500 newspapers that are available in the News and Microforms Library of the Penn State University Libraries. BOOK, JOURNAL, MANUSCRIPT, ARCHIVE, AND ORAL HISTORY COLLECTIONS. ##This web site provides alphabetical, subject, and chronological access to descriptions of over 500 collections. For each collection, the following information is given: title of the collection, microform call number, title and call number of the guide, number of microform units, description of the collection, and list of subject headings. The descriptions include, where appropriate, biographical information for individuals or information on groups or organizations, location of the original materials, types of materials included, and a description of subject content. The descriptions are adapted from information in the various guides, information in the National Union Catalog of Manuscript Collections, or information at the beginning of the first reel/fiche. Many of the descriptions were authored by Sandra Romanow (1982 guide), Lynn Vacca, Philip Frigm, and Jack Pontius. Susan Lieberman helped greatly in the editing of the original printed guide. The web version was edited by Cliff Hughes. ## ##NEWSPAPERS Among the most important and heavily used materials in the Microforms Collection are backfiles of about 500 newspapers. However, it is sometimes difficult to determine what newspapers are available for various cities or countries or for various time periods. While most titles are cataloged in The CAT, the Penn State Libraries online catalog, The CAT does not provide geographical or chronological access. ##This web site allows you to search the Microforms Newspaper Collections: Alphabetically

 [Go to MicroFinder](#)

Middle English Compendium

Provides access to and interconnectivity between three major Middle English electronic resources: an electronic version of the Middle English Dictionary, a HyperBibliography of Middle English prose and verse, based on the MED bibliographies, and a Corpus of Middle English Prose and Verse, as well as links to an associated network of electronic resources.

 [Go to Middle English Compendium](#)

Middle English Dictionary

Its 15,000 pages offer a comprehensive analysis of lexicon and usage for the period 1100-1500, based on the analysis of a collection of over three million citation slips, the largest collection of this kind available. This electronic version of the MED preserves all the details of the print MED, but goes far beyond this, by converting its contents into an enormous database, searchable in ways impossible within any print dictionary.

 [Go to Middle English Dictionary](#)

Mintel Reports

Mintel publishes market research reports for the U.S. and European consumer markets. Reports analyze market drivers, trends, market forecasts, market segmentations, demographics, and consumer attitudes and purchasing behaviors. Mintel publishes over 600 reports each year.

 [Go to Mintel Reports](#)

Mira Lloyd Dock Forestry Lantern Slides Collection

This collection includes 468 glass lantern slides dating from 1897 to about 1902, apparently used by Mira Lloyd Dock in her lectures at the Mont Alto Forestry School. Many of these photos were taken at Wetzel's Swamp near Harrisburg (now Wildwood Park) but other states and European sites are also represented. Most are black and white, but a few of the slides of plants were beautifully hand-colored. The collection provides an interesting perspective on ecology a century ago and a view of the broad interests of Dock, who was a noted champion for the city beautiful movement and for the restoration of Pennsylvania's forests as well as the first woman to be appointed by a Pennsylvania governor.

 [Go to Mira Lloyd Dock Forestry Lantern Slides Collection](#)

MIT CogNet

MIT CogNet, the Cognitive and Brain Sciences Community Online, provides access to a searchable, full-text library of books, journals, and reference works from the MIT Press, as well as content and links to resources from other publishers, professional associations, institutions, and individuals. Additional features are conference materials, a directory of cognitive science programs, threaded discussion groups, job listings and other career information, and more.

 [Go to MIT CogNet](#)

MLA International Bibliography

The MLA International Bibliography contains more than 1.7 million records for books and articles published on modern languages, literatures, folklore, and linguistics.

 [Go to MLA International Bibliography](#)

MRS Online Proceedings Library (Materials Research Society)

The MRS Proceedings Library includes over 20,000 peer-reviewed papers presented at Materials Research Society meetings primarily since 2000.

 [Go to MRS Online Proceedings Library \(Materials Research Society\)](#)

Music Audio

Music audio is available to Penn State University students, faculty, and staff through the following resources provided by the University Libraries. ## ##Classical Music Library ##Classical Music Library streams classical music from a collection of over 30,000 tracks, with 2,000 new tracks added each month, supplemented by extensive reference materials such as program notes and composer biographies. The musical content is sourced from a variety of publishers. To listen from a PC with Internet Explorer, your computer needs Windows Media Player 7 or higher, and Macromedia Flash Player 6 or higher. To listen from an Apple Macintosh or from a PC with Netscape, your computer needs Macromedia Flash Player 6 or higher. ## ##Naxos Music Library ##Naxos Music Library streams music from the complete Naxos, Marco Polo, and Dacapo record catalogs of over 85,000 tracks: mostly classical music, with some jazz, world, and folk music. While listening, users can read notes on the works being played as well as biographical information on composers and artists. To listen from a PC, your computer needs Internet Explorer and Windows Media Player 9. To listen from an Apple Macintosh, your computer needs either OS 8.6 with MS IE 5.1 and Media Player 7.1, or OS X 10.2.8 with MS IE 5.2 and Media Player 9.

 [Go to Music Audio](#)

Music Index Online

The Music Index Online indexes articles in 670 international music journals and magazines. The list of journals indexed by The Music Index Online is at <http://www.harmonieparkpress.com/period.a.html> Coverage: 1979-current

 [Go to Music Index Online](#)

NASA ADS (Astrophysics Data System)

The Astrophysics Data System (ADS) is a NASA-funded project whose main resource is an Abstract Service, which includes four sets of abstracts: ##(1) astronomy and astrophysics ##(2) instrumentation ##(3) physics and geophysics ##(4) Los Alamos preprint server ## ##Each dataset can be searched by author, object name (astronomy only), title, or abstract text words. ## ##In addition, the abstract service includes links to the full text of articles appearing in most of the major astronomical journals.

 [Go to NASA ADS \(Astrophysics Data System\)](#)

NASA Technical Report Server

Includes the full text and bibliographic records of selected NASA-sponsored technical reports. ##Coverage: NASA-sponsored technical reports; dates vary

 [Go to NASA Technical Report Server](#)

Nation Archive Premium Edition

Magazines for Libraries, (12th ed.) says of The Nation "Proud of being a 'Wholly owned subsidiary of our own conscience' rather than a publication from a media conglomerate....[and] is one of the most openly left-wing publications in existence. That does not mean that it will not criticize where criticism may be due, including its partisans and fellow left-leaning publications, though naturally its best shots tend to be aimed at its ideological opposites. The writing is crisp and conse, a joy to read. The multiple short editorials at the beginning of each issues cover a wide range of topics, from the recent developments in cloning to the status of the publishing industry." The Nation serves as an important historical window on the United States--its policies, its people, and events.

 [Go to Nation Archive Premium Edition](#)

National Agricultural Library Digital Repository (NALDR)

The National Agricultural Library Digital Repository(NALDR) provides access to historic publications of the Department of Agriculture either digitized by NAL or through NAL's partnerships with other institutions.

 [Go to National Agricultural Library Digital Repository \(NALDR\)](#)

National Criminal Justice Reference Service (NCJRS)

The National Criminal Justice Reference Service Abstracts Database contains summaries of more than 150,000 publications on criminal justice, including Federal, state, and local government reports, books, research reports, journal articles, and unpublished research. Subject areas include corrections, courts, drugs and crime, law enforcement, juvenile justice, crime statistics, and victims of crime. ##Coverage: The time period covered is from the early 1970's to the present.

 [Go to National Criminal Justice Reference Service \(NCJRS\)](#)

National Journal

Full-text of key magazines, newsletters, books and directories from the National Journal Group. Focused on government, politics, and public policy. Includes general public policy as well as focused publications on health policy and technology policy. ##Publications include: ##The National Journal - weekly journal on politics and government ##Congress Daily (twice daily covering Congressional activity) ##Hotline (campaign info) ##Government Executive (monthly) ##American Health Line (daily) ##Technology Daily ##Almanac of American Politics ##Poll Track -- polls related to government, politics, & public policy

 [Go to National Journal](#)

NBER Working Papers

Founded in 1920, the National Bureau of Economic Research is a private, nonprofit, nonpartisan research organization dedicated to promoting a greater understanding of how the economy works. The NBER is committed to undertaking and disseminating unbiased economic research among public policymakers, business professionals, and the academic community.

 [Go to NBER Working Papers](#)

netLibrary (full text e-books)

netLibrary provides access to a PALCI-shared collection of electronic books. Access to a title is limited to one concurrent user at a time.

 [Go to netLibrary \(full text e-books\)](#)

New Pauly Online

Brill's New Pauly and Der Neue Pauly have become a recognized standard reference work for students and scholars of the ancient world. Now, the complete original Der Neue Pauly together with Brill's New Pauly are offered online. New Pauly Online will allow the researcher to have the most complete database available. New Pauly Online is automatically updated whenever a new volume is published.

 [Go to New Pauly Online](#)

New Testament Abstracts

New Testament Abstracts Online is a product of a partnership between ATLA and the Weston Jesuit School of Theology. The database has become an indispensable research and bibliographic aid for scholars, librarians, clergy and students of the New Testament and its historical milieu. The database contains more than 38,000 article abstracts, 1,200 review abstracts, 13,500 book abstracts, and 50 software abstracts.

 [Go to New Testament Abstracts](#)

New York Review of Books

From Magazines for Libraries (Mar 22, 2007) ##To browse the archives of the New York Review of Books is to view a Who's Who of contemporary American literature and culture; its inaugural issue, for example, included contributions from Susan Sontag, Norman Mailer, Gore Vidal, John Berryman, Robert Lowell, Adrienne Rich, and William Styron. Stimulating essays on current topics, lengthy reviews by and about major authors, and original poetry comprise the core of this highly regarded publication. ##The online archive provides the full text of articles, searchable by date, author, keyword, and other fields.

 [Go to New York Review of Books](#)

New York Times Historical (1851-2004) (Digital Archive)

Includes a digitized image of every backfile issue of The New York Times from cover to cover, including news stories, editorials, photos, graphics, and advertisements. Searchers can use basic keyword, advanced, guided, and relevancy search techniques to locate information. Or, they can browse through issues page by page, as one would browse a printed edition. Search results lists provide bibliographic information, including date, issue, article headline, page number, and byline (where given). Users may choose to display the full page image of any page in any issue.

 [Go to New York Times Historical \(1851-2004\) \(Digital Archive\)](#)

NewsBank--America's Newspapers

The electronic editions of record for valuable local, regional, and national newspapers--all in one easy-to-search database. Each paper provides unique coverage of local and regional news, including companies, politics, sports, industries, cultural activities, and people in the community.

 [Go to NewsBank--America's Newspapers](#)

Newspaper Photos (AccuNet/AP Photo Archive)

An average of 800 state, regional, national and international photos are added daily to the AP Photo Archives. After a year, approximately 200 of the best daily photos are retained permanently. ##The Photo Archive's historical collection continues to grow, featuring images from significant news and features events of the 20th century. The earliest photograph available is a photograph of Abraham Lincoln taken in 1844. ##Permitted uses of these images include: 1. printing copies for educational and research use; 2. creating PowerPoint presentations, slides, and multimedia presentations when usage is confined to the licensed institution; 3. posting on a secure web site available only to authorized users; 4 e-mailing single images to an individual e-mail recipient.

 [Go to Newspaper Photos \(AccuNet/AP Photo Archive\)](#)

NewsStand E-Image Newspapers

Read, browse, search daily issues of Al-Hayat, Die Welt, Le Monde, El Pais newspapers.

 [Go to NewsStand E-Image Newspapers](#)

Nineteenth - Century Fiction

A collection of 250 British and Irish novels from the period 1782 to 1903, stretching from the golden age of Gothic fiction to the Decadent and New Woman novels of the 1890s. Major novelists of the period such as Austen, Scott, Mary Shelley, Dickens, Eliot, Hardy and the Brontës feature alongside popular romances, sensation fiction, colonial adventure novels and children's literature.

 [Go to Nineteenth - Century Fiction](#)

Nineteenth Century U.S. Newspapers

Full-text database containing digital facsimile images of newspapers; presented as full page layout as well as single articles; advertisements and illustrations included. This collection includes numerous newspapers from a range of urban and rural regions throughout the U.S.

 [Go to Nineteenth Century U.S. Newspapers](#)

NLM Gateway (National Library of Medicine)

The NLM Gateway is a Web-based system that lets users search simultaneously in multiple retrieval systems at the U.S. National Library of Medicine (NLM). The resources the Gateway searches include consumer health information, journal citations, the National Library of Medicine's library catalog, meeting abstracts and toxicology resources. Gateway now

Accesses: MEDLINE®/PubMed® -- catalog information for books, serial titles, audiovisuals -- Bookshelf -- full text biomedical books -- TOXLINE® Special -- toxicology citations -- DART® - Developmental and Reproductive Toxicology -- Meeting abstracts on HIV/AIDS, health services research, and space life sciences -- MedlinePlus® -- consumer health information -- ClinicalTrials.gov -- information for the public about clinical trials -- Directory of Health Organizations -- Genetics Home Reference -- consumer information for genetic conditions -- Household Products Database -- HSRProj -- health services research projects -- COMIM -- Online Mendelian Inheritance in Man -- Hazardous Substances Data Bank -- IRIS -- Integrated Risk Information System -- ITER -- International Toxicity Estimates for Risk -- GENE-TOX -- Genetic Toxicology (Mutagenicity) -- CCRIS -- Chemical Carcinogenesis Research Information System -- Profiles in Science -- archives of several prominent biomedical scientists -- UMLS® Metathesaurus. # Learn More about the Gateway at:

<http://www.nlm.nih.gov/pubs/factsheets/gateway.html>

 [Go to NLM Gateway \(National Library of Medicine\)](#)

North American Women's Letters and Diaries

North American Women's Letters and Diaries includes approximately 100,000 pages of published letters and diaries from individuals writing from Colonial times to 1950 plus 4,000 pages of previously unpublished materials. Drawn from more than 1,000 sources, including journal articles, pamphlets, newsletters, monographs, and conference proceedings, much of the material is in copyright. Represented are all age groups and life stages, all ethnicities, many geographical regions, the famous and the not so famous. More than 1,500 biographies will enhance the use of the database. # # # The collection includes one of the most comprehensive bibliographies of women's diaries and letters yet published. It lists over 2,000 published and unpublished items from a variety of sources, including online resources and microform.

 [Go to North American Women's Letters and Diaries](#)

Northwestern University Library Catalog (NUcat)

 [Go to Northwestern University Library Catalog \(NUcat\)](#)

NovelList

NovelList is a readers' advisory service database that lists over 100,000 titles, contains 75,000 full text reviews, and includes over 36,000 subject headings, offering a wide range of resources that will serve readers of fiction. The product's "Find a Favorite Author" or "Find a Favorite Title" feature permits users to locate lists of books in their favorite fiction areas. NovelList will be linked to the ACCESS PENNSYLVANIA Database so that library users can check to see which libraries own a copy of a book described in NovelList, and link from the ACCESS PENNSYLVANIA Database to descriptions and reviews in NovelList.

 [Go to NovelList](#)

NTIS

NTIS is the preeminent resource for accessing the latest US government sponsored research, and worldwide scientific, technical, engineering and business related information. Coverage: 1964-present.

 [Go to NTIS](#)

Oceanic Abstracts

Oceanic Abstracts is focused exclusively on worldwide technical literature pertaining to the marine and brackish-water environment. The journal has long been recognized as a leading source of information on topics relating to oceans. The journal focuses on marine biology and physical oceanography, fisheries, aquaculture, non-living resources, meteorology and geology, plus environmental, technological, and legislative topics. This journal is totally comprehensive in its coverage of living and non-living resources, meteorology and geology, plus environmental, technological, and legislative topics.

 [Go to Oceanic Abstracts](#)

O'Connor Yeager Collection

A collection of printed Pennsylvania town views, portraits, maps, and historical scenes. Through a combination of donation and purchase from the collectors John C. O'Connor and Ralph M. Yeager, this collection of 330 prints came to the Palmer Museum of Art in 1986. It includes lithographs, engravings, aquatints, photogravures, and woodcuts created by artists of the late eighteenth, nineteenth, and early twentieth centuries. These prints offer a unique glimpse into Pennsylvania's past.

 [Go to O'Connor Yeager Collection](#)

Odum Institute's Public Opinion Poll Question Database

The Odum Institute maintains one of the oldest archives of polling data in the United States and is the exclusive repository for Louis Harris public opinion data. The Odum Institute's Public Opinion Poll Question Database allows users to search for specific poll questions from more than 230,000 questions in the Institutes archive. It also provides access to data files.

 [Go to Odum Institute's Public Opinion Poll Question Database](#)

Ohio State University Library Catalog

 [Go to Ohio State University Library Catalog](#)

Old English Corpus

The Corpus contains all surviving Old English material, excluding variant texts. Altogether there are over three thousand different texts.

 [Go to Old English Corpus](#)

Old Testament Abstracts

Old Testament Abstracts Online is a product of a partnership between ATLA and the Catholic Biblical Association. The database features indexing and abstracts for journal articles, monographs, multi-author works, and software related to Old Testament studies. Topics covered include antiquities, archaeology, biblical theology, philology and much more.

 [Go to Old Testament Abstracts](#)

Opposing Viewpoints Resource Center

Opposing Viewpoints Resource Center provides research and background information on social issues. The database contains the essays from the Opposing Viewpoints series, supplemented by, statistics, primary documents, links to websites, and full-text magazine and newspaper articles. ##Keywords: hot topics, current events, social issues, social trends, English 15, CAS 100, background information, general interest, contemporary issues, overviews

 [Go to Opposing Viewpoints Resource Center](#)

Oral History Online

Oral History Online is an index to interviews conducted at institutions around the world. The database records describe the contents of the oral histories. Textual transcripts, audio, and/or video are provided for selected interviews. Information on materials that are not online can be obtained by contacting the owning institution indicated in the database.

 [Go to Oral History Online](#)

OT BibSys (Occupational Therapy Bibliographic System)

OT BibSys is a bibliographic database covering the literature of occupational therapy and related subject areas, such as rehabilitation, education, psychiatry or psychology, and health care delivery or administration. The full text of the indexed resources is not in this database, just the bibliographic information to identify the material and the author's abstract when one exists.

 [Go to OT BibSys \(Occupational Therapy Bibliographic System\)](#)

Oxford African-American Studies Center

African American Studies Center The AASC features the new, three-volume Encyclopedia of African American History 1619-1895, published by Oxford in 2006; the three-volume Black Women in America, Second Edition, edited by Darlene Clark Hine in 2005, the highly acclaimed five volume Africana; the encyclopedia of the African and African American experience The Center also includes content from much-anticipated forthcoming print publications including the African American National Biography project (estimated at 8 volumes), edited by Henry Louis Gates, Jr., scheduled for publication in 2008; and the Encyclopedia of African American Art and Architecture, due for publication 2007. In addition to these major reference works, AASC offers other key resources from Oxford's reference program, including the Concise Oxford Companion to African American Literature and selected articles from other reference works.

 [Go to Oxford African-American Studies Center](#)

Oxford Dictionary of National Biography

An illustrated collection of 50,000 specially written biographies of noteworthy men and women who shaped Britain's past, from the fourth century BC to the year 2000

 [Go to Oxford Dictionary of National Biography](#)

Oxford English Dictionary

Traces the usage of words through 2.5 million quotations from a wide range of international English language sources.

 [Go to Oxford English Dictionary](#)

Oxford Reference Online

Oxford Reference Online consists of a wealth of facts, figures, definitions, and translations found in dictionary, language reference, and subject reference works published by Oxford University Press.

 [Go to Oxford Reference Online](#)

OxResearch

A "first draft of history" as it occurs. Provides succinct analytical articles covering world and regional economic and political developments of major significance. Evaluates issues and events within a coherent political, social, and economic framework. Contains objective, multi-disciplinary articles compiled by an extensive international network of over 1,000 faculty members at Oxford and other leading universities around the world, as well as think-tanks and institutes of international standing.

 [Go to OxResearch](#)

PapersFirst (Conference Papers)

PapersFirst provides access to papers presented at conferences worldwide. ##Coverage: Oct. 1993+. Updates: bi-weekly (24 times per year)

 [Go to PapersFirst \(Conference Papers\)](#)

Past Masters (full text philosophy books)

Past Masters encompasses the largest collection of full-text electronic editions in philosophy in the world. The series includes important works in the history of political thought and theory, religious studies, economics, classics, history, and German studies. The databases are based on excellent editions, in both original language and in English translation, using meticulous text conversion processes. Combined with powerful web-based search and reference tools, the Past Masters series provides scholars with significantly-enhanced and highly-flexible access to the classic texts of philosophy.

 [Go to Past Masters \(full text philosophy books\)](#)

Patents, U.S. and Foreign

This page describes several of the most useful databases for searching patents on the Web. Direct links are provided to sources of U.S. Patent & Trademark Office, European Patent Office and Japanese Patent Office search pages.

 [Go to Patents, U.S. and Foreign](#)

Patrologia Latina

The Patrologia Latina Database contains 221 volumes and represents a complete electronic version of the first edition of Jacques-Paul Migne's Patrologia Latina (1844-1855 and 1862-1865).

 [Go to Patrologia Latina](#)

Peace Research Abstracts

Covers essential areas related to peace research, including conflict resolution, international affairs, peace psychology, Genocide, human rights, international law, refugees voluntary and nongovernmental organizations, armed conflicts, civil wars, territorial disputes, terrorism,

counterterrorism, democratisation, migration, arms control, peacekeeping, peacebuilding, humanitarian aid, cultural relations, race relations, interpersonal violence, ethnic relations, race relations, and other areas of key relevance to the discipline.

 [Go to Peace Research Abstracts](#)

Penn State Electronic Theses and Dissertations

Provides access to Penn State electronic theses and dissertations.

 [Go to Penn State Electronic Theses and Dissertations](#)

Penn State University Libraries Web Site

The Pennsylvania State University Libraries' web page.

 [Go to Penn State University Libraries Web Site](#)

Penn State University Web Site

The Pennsylvania State University's web page.

 [Go to Penn State University Web Site](#)

Pennsylvania Civil War Newspapers

Provides access to a selection of Pennsylvania newspapers published during the critical years before, during, and after the U.S. Civil War.

The dates of coverage vary by the paper, some publications go back to the late 1840's, others extend beyond the Civil War into the early Reconstruction years. The digital reproductions include all words, photographs, and advertisements as well as an exact page image of the newspaper. For readers who prefer to see the newspapers intact, each issue can be browsed by date. In addition to national issues such as war, abolition, and slavery, readers will find many articles documenting political and social life on the homefront. These include topics such as recreational and social events, sports, prose, and local business and economic news.

 [Go to Pennsylvania Civil War Newspapers](#)

Pennsylvania Geology

Described in 1924 as "the most remarkable series of reports ever issued by any survey," the Second Geological Survey of Pennsylvania (1874-1889) produced an unprecedented volume and quality of geologic reports. With over 80 texts, nearly 600 accompanying maps and illustrations, a hand atlas, a six-volume grand atlas, and miscellaneous other publications, the Second Survey contains a treasure trove of geologic, economic and historic information about Pennsylvania during the Golden Age.

 [Go to Pennsylvania Geology](#)

Pennsylvania German Broad sides and Fraktur

This collection includes 148 manuscript and printed Pennsylvania German Fraktur, broad sides (sheets of paper printed on one side only, such as commentaries on religious texts and political events), and German-language newspapers. These documents provide us with insight into the everyday life of German immigrants and show the process of acculturation of German settlers to their new environment.

 [Go to Pennsylvania German Broad sides and Fraktur](#)

Pennsylvania History Pictorial Collections

This database provides access to digital images from three of Penn State's collections: The O'Connor/Yeager Collection: 19th- and early 20th-century prints depicting Pennsylvania from the Palmer Museum of Art. University Park Campus History Collection: Photos, drawings, and documents from the University Archives chronicling the growth of Penn State's Largest Campus. Mira Dock Forestry Lantern Slide Collection: Lantern slide images of early 20-century forest management from the collection at Penn State Mont Alto.

 [Go to Pennsylvania History Pictorial Collections](#)

Periodicals Archive Online

Periodicals Archive Online is the new name for PCI Full Text - an archive of hundreds of full-text journals published in the arts, humanities and social sciences. Though the focus is on the twentieth century, coverage of some titles dates to the eighteenth century.

 [Go to Periodicals Archive Online](#)

Periodicals Index Online

Periodicals Contents Index (PCI) is an electronic index to millions of articles published in over 4,250 periodicals in the humanities and social sciences.

 [Go to Periodicals Index Online](#)

Philosopher's Index

The Philosopher's Index is a bibliographic database with informative author-written abstracts covering scholarly research in the fifteen fields of philosophy, published in journals and books since 1940. The electronic version of The Philosopher's Index is available exclusively on SilverPlatter.

 [Go to Philosopher's Index](#)

Pike and Fischer Communications Regulation

Covers all of U.S. communications law regulations and full-text cases back to the mid-1960's. Also includes topical digests and an update service for recent developments in telecom law and significant new additions to decisions and other regulatory developments. The equivalent of the print source: Pike & Fischer Communications Regulation.

 [Go to Pike and Fischer Communications Regulation](#)

PILOTS (Published International Literature On Traumatic Stress)

The PILOTS database is sponsored by the U.S. Department of Veterans Affairs. Its goal is to include citations to all literature on post-traumatic stress disorder (PTSD) and other mental-health sequelae of traumatic events, without disciplinary, linguistic, or geographical limitations, and to offer both current and retrospective coverage.

 [Go to PILOTS \(Published International Literature On Traumatic Stress\)](#)

Plant Management Network

The Plant Management Network is a unique cooperative resource for the applied plant sciences. Designed to provide plant science practitioners fast electronic access to proven solutions, the Plant Management Network offers an extensive searchable database comprised of thousands of web-based resource pages from the network's partner universities, companies, and associations.

 [Go to Plant Management Network](#)

Plunkett Research Online (Industry information)

Plunkett Research Online provides industry reports covering industry sector analysis and research, industry trends and industry statistics, market research and trends, and company profiles.

 [Go to Plunkett Research Online \(Industry information\)](#)

PolicyFile (Public Policy Research & Analysis)

PolicyFile draws its content from public policy think tanks, university research programs, research organizations and publishers. ##Some well known contributors include: the American Enterprise Institute, Brookings Institution, Carnegie Endowment for International Peace, Cato Institute, Center for Defense Information, Center for Strategic and International Studies, Council on Foreign Relations, Democratic Leadership Council, Economic Strategy Institute, Federation of American Scientists, Heritage Foundation, Hoover Institution, Hudson Institute, Institute for International Economics, International Monetary Fund, National Center for Policy Analysis, Organization for Economic Cooperation and Development, RAND Corporation, United States Institute of Peace, and the World Bank. Where available, access to home pages, electronic mail addresses and fulltext are made available within individual abstracts.

 [Go to PolicyFile \(Public Policy Research & Analysis\)](#)

Political Risk Yearbook

Country Reports on 106 countries. Gives political and economic risk analysis available. Each Country Report focuses specifically on political and business information: finding developing markets, determining currency movements, preparing for capital investments, or making judgments about corporate security.

 [Go to Political Risk Yearbook](#)

Polling the Nations

A searchable database of questions from more than 14,000 surveys conducted by more than 700 polling organizations in the United States and more than 80 other countries from 1986 to the present. Each of the nearly 350,000 records reports a question asked and the responses given. Also included in each record is the polling organization responsible for the work, the date the information was released, the sample size, and universe, i.e., the groups or areas included in the interview.

 [Go to Polling the Nations](#)

Pollution Abstracts

This database provides fast access to the environmental information necessary to resolve day-to-day problems, ensure ongoing compliance, and handle emergency situations more effectively. Pollution Abstracts combines information on scientific research and government policies in a single resource. Topics of growing concern are extensively covered from the standpoints of atmosphere, emissions, mathematical models, effects on people and animals, and environmental action in response to global pollution issues. To ensure comprehensive coverage, material from conference proceedings and hard-to-find documents has been summarized along with information from primary journals in the field.

 [Go to Pollution Abstracts](#)

Praeger Security International Online

Interdisciplinary and diverse in political perspective, Praeger Security International Online publishes material on international security, including defense and foreign policy, strategy, regional security, military history, and terrorism.

 [Go to Praeger Security International Online](#)

PressDisplay Electronic Image Databases

PressDisplay provides a global perspective on the World's events and news and is the most convenient and complete way to read all your favorite newspapers on one site. Users will gain access to newspapers from within the library, from home and around the world on the day they are published. Researchers will find convenient searching, a traditional 2-page newspaper view, table of contents, article jumps (linking article sections) and easy to read text views. PressDisplay can also provide translations into ten major foreign languages.

 [Go to PressDisplay Electronic Image Databases](#)

Professional Development Collection

The database provides a highly specialized collection of electronic information especially for professional educators. This collection offers information on everything from children's health and development to cutting-edge pedagogical theory and practice.

 [Go to Professional Development Collection](#)

Project Euclid (mathematics journals)

Project Euclid's mission is to advance effective and affordable scholarly communication in the field of theoretical and applied mathematics and statistics. Through a collaborative partnership arrangement, publishers join forces and participate in an online presence with advanced functionality while maintaining their quality, intellectual and economic independence, and commitment to affordable subscription prices. Since some electronic access is granted directly by the publisher (not Project Euclid), Penn State has access to most titles but not all. Check The CAT or "E-journals at Penn State" to confirm access to specific titles.

 [Go to Project Euclid \(mathematics journals\)](#)

Project Gutenberg

This collection is based on documents produced by Project Gutenberg. Founded by Michael Hart in 1971 with the aim of distributing a trillion (1,000,000,000) electronic literature files by the year 2001, Project Gutenberg has evolved into an on-going project to produce and distribute free electronic editions of literature. ##The literature carried by Project Gutenberg is typically out of copyright and includes many historically important documents (especially American ones) and much fine literature™ (Shakespeare, Dickens, etc). Project Gutenberg unashamedly aims at the low end of the quality-price spectrum, aiming to publish as many titles as possible for the lowest price rather than high-quality expensive editions.

 [Go to Project Gutenberg](#)

Project Muse

Project MUSE is a unique collaboration between libraries and publishers providing 100% full-text, affordable and user-friendly online access to high quality humanities, arts, and social sciences journals from scholarly publishers. ##MUSE began in 1993 as a pioneering joint project of the Johns Hopkins University Press and the Milton S. Eisenhower Library at JHU. ##Grants from the Mellon Foundation and the National Endowment for the Humanities allowed MUSE to go live with JHU Press journals in 1995. ##Journals from other publishers were first incorporated in 2000, with additional university press and scholarly society publishers joining in each subsequent year.

 [Go to Project Muse](#)

Prokaryotes

The Prokaryotes is an online, updated version of a comprehensive resource for the bacteria and the Archaea. This resource includes full-text chapters on all aspects of prokaryotic organisms, including biochemistry and ecophysiology, symbiotic associations, and biotechnology. It is updated incrementally in releases that expand or replace outdated chapters.

 [Go to Prokaryotes](#)

ProQuest (Multiple Databases)

indexes 5,000+ magazines, journals, and newspapers. It##contains Full text (word file with no photos or tables) or##images (looks like real paper publication) to over 2,000##journals, and Full text to 150+ newspapers. ProQuest##(multiple databases) includes the following databases: ABI##Inform (business trade and research journals), Ethnic##NewsWatch, ProQuest Research Library (general and research##journals), ProQuest Newspapers, Hoover's Company Records,##OxResearch, ProQuest Nursing & Allied Health Source, and##Dissertations & Theses. Keywords: news, new york times,##current events, contemporary issues, hot topics, english 15,##cas100.

 [Go to ProQuest \(Multiple Databases\)](#)

ProQuest Newsstand

Full text of 300+ U.S. and international news sources. Includes coverage of 150+ major U.S. and international newspapers such as The New York Times and the Times of London, plus hundreds of other news sources and news wires.

 [Go to ProQuest Newsstand](#)

ProQuest Nursing Journals

A full text database subset of CINAHL, including only 300 full-text journals that are licensed to ProQuest. Coverage is typically from 1996, with a few titles prior to that date.

 [Go to ProQuest Nursing Journals](#)

ProQuest Research Library

The database includes more than 3,870 titles over 2,600 in full text from 1971 forward. It features a diversified mix of scholarly journals, trade publications, magazines, and newspapers in all subjects. keywords: current events, contemporary issues, hot topics, english 15, cas 100.

 [Go to ProQuest Research Library](#)

PsycARTICLES

PsycARTICLES is a database of full-text articles from journals published by the American Psychological Association, the APA Educational Publishing Foundation, the Canadian Psychological Association, and Hogrefe & Huber.

 [Go to PsycARTICLES](#)

PsycINFO 1872-current

PsycINFO provides access to international literature in psychology and related disciplines. Unrivaled in its depth of psychological coverage and respected worldwide for its high quality, the database is enriched with literature from an array of disciplines related to psychology such as psychiatry, education, business, medicine, nursing, pharmacology, law, linguistics, and social work. Nearly all records contain non-evaluative summaries, and all records from 1967 to the present are indexed using the Thesaurus of Psychological Index Terms. Practitioners, researchers, and students working in all areas of psychology, the behavioral sciences, and other related disciplines. PsycINFO includes psychological research and its applications; the database is of prime relevance to many industries and research establishments worldwide. The sources include over 1,400 professional journals, chapters, books, reports, theses and dissertations, published internationally. PsycINFO is a department of the American Psychological Association (APA) dedicated to creating products that make it easier for researchers to locate psychological literature relevant to their research topics. PsycINFO staff members locate and summarize psychologically relevant documents from a wide range of disciplines, and disseminate these summaries in forms suited to easy access and retrieval.

 [Go to PsycINFO 1872-current](#)

PubMed (Medline)

PubMed is a web interface that allows you to search MEDLINE, the National Library of Medicine's premier database of citations and abstracts for biomedical research articles. The core subject is medicine, but subject coverage also includes bioethics, biology, chemistry, dentistry, environmental health, genetics, gerontology, health care planning and administration, history of medicine, hospital administration, microbiology, nutrition, nursing (International Nursing Index), physiology, pre-clinical sciences, public health, sports medicine, veterinary medicine and zoology. MEDLINE covers over 4,800 journals published in the United States and 70 other countries. The database contains over 15 million citations dating back to 1950. Coverage is worldwide and updated weekly. Learn more about PubMed at:

<http://www.nlm.nih.gov/pubs/factsheets/pubmed.html>. or Try the Tutorial at: http://www.nlm.nih.gov/bsd/pubmed_tutorial/m1001.html

 [Go to PubMed \(Medline\)](#)

Purdue University Library Catalog

 [Go to Purdue University Library Catalog](#)

Reuter's Research on Demand (formerly Multex)

RROD provides real-time full-text investment research reports, video/audio programs, and other full-text reports to support investments research. There are more than 750 contributing firms such as Merrill Lynch, Salomon Smith Barney and RS Investment Management.

 [Go to Reuter's Research on Demand \(formerly Multex\)](#)

RIA Checkpoint (Business: AICPA & FASB)

RIA Checkpoint is a comprehensive tax and accounting research service. It includes federal tax information, AICPA and FASB publications, a segment on SEC Compliance, and the Sarbanes-Oxley Reporter.

 [Go to RIA Checkpoint \(Business: AICPA & FASB\)](#)

RIA Checkpoint (Tax and Estate Planning))

RIA Checkpoint is a comprehensive tax and estate planning research service. It includes federal and state primary law documents such as legislation, regulations, and court opinions. Selected journals and treatises offer detailed analysis of complex tax and estate planning issues.

 [Go to RIA Checkpoint \(Tax and Estate Planning\)\)](#)

RILM Music Literature

RILM Abstracts indexes and abstracts current literature about music, including periodical articles, Festschriften articles, books, reviews, and dissertations. Scope is international, but all abstracts are in English. Coverage: 1969-present

 [Go to RILM Music Literature](#)

RIPM (Index to 19th-Century Music Periodicals)

RIPM, the international index to nineteenth-century music periodicals, indexes articles in over 50 periodicals published in 15 countries during the nineteenth century.

 [Go to RIPM \(Index to 19th-Century Music Periodicals\)](#)

Risk Abstracts

The database covers risk-related concerns ranging from public and environmental health to social issues and psychological aspects. Coverage: 1990-date

 [Go to Risk Abstracts](#)

Rock's Backpages

Rock's Backpages is a full-text online library of rock music journalism published since 1960, including reviews, interviews, and features on artists from Aaliyah to ZZ Top, from over 100 of the most influential magazines and newspapers, including Cashbox, Creem, Crawdaddy!, Melody Maker, Mojo, Spin, Uncut, and Vibe.

 [Go to Rock's Backpages](#)

Roget's Thesaurus

Access to a non-copyrighted version of Roget's Thesaurus, useful in finding synonyms.

 [Go to Roget's Thesaurus](#)

Royal Society of Chemistry E-Journals

This web page contains electronic versions of journals published by the Royal Society of Chemistry. Most of these begin with volumes beginning with the year 1997.

 [Go to Royal Society of Chemistry E-Journals](#)

Russian Newspapers (Digital Archive)

Full-text files of over 30 of the Russian newspapers are accessible online for browsing, searching and analyzing. Includes some English language papers.

 [Go to Russian Newspapers \(Digital Archive\)](#)

Safari Computer Books Online

Safari Books Online is a joint venture of O'Reilly Media and The Pearson Technology Group. Safari's flagship service, Safari Tech Books Online, sells site licenses to Fortune 500 companies, major universities and leading training organizations worldwide.

 [Go to Safari Computer Books Online](#)

SAGE Journals Online

Provides full-text access to all Sage journals.

 [Go to SAGE Journals Online](#)

Sage Race Relations Abstracts

Published quarterly, SAGE Race Relations Abstracts offers summaries of the best and most recent journal articles, books and conference papers from around the world. It assesses more than 300 publications providing you with the latest information and research findings in the area of race relations. Issues covered include discrimination, education, employment, health, politics, law and legislation. SAGE Race Relations Abstracts provides unique resources for scholars, activists and students.

 [Go to Sage Race Relations Abstracts](#)

Science Citation Index

Science Citation Index is a multidisciplinary index to the journal literature of the sciences.

 [Go to Science Citation Index](#)

Science of Synthesis

Science of Synthesis is the new edition of the Houben-Weyl Methods in Organic Chemistry, a major reference work that provides synthetic methods for the preparation of organic chemicals. The original edition began publication in 1909 and covers the organic chemistry literature back to 1835. All editions of Houben-Weyl as well as the E-Series are also included as an electronic backfile within Science of Synthesis. Please note that the earlier editions of Houben-Weyl are in German. **##Hazard Information for The Science of Synthesis ## ##WARNING! CAREFULLY READ THE FOLLOWING: ALTHOUGH THE SCIENCE OF SYNTHESIS HAS BEEN WRITTEN BY EXPERTS, THE CUSTOMER AND ANY EMPLOYEES, AGENTS AND CONSULTANTS OF THE CUSTOMER (THE "USER") WHO USE THE SCIENCE OF SYNTHESIS ARE HEREBY ADVISED AND ACKNOWLEDGE AND AGREE THAT THE HANDLING OF CHEMICALS, MICROORGANISMS, AND CHEMICAL APPARATUS CARRIES POTENTIALLY LIFE-THREATENING RISKS. FOR EXAMPLE, SERIOUS DANGERS COULD OCCUR THROUGH QUANTITIES BEING INCORRECTLY GIVEN. THE AUTHORS TOOK THE UTMOST CARE THAT THE QUANTITIES AND EXPERIMENTAL DETAILS DESCRIBED HEREIN REFLECTED THE CURRENT STATE OF THE ART OF SCIENCE WHEN THE WORK WAS PUBLISHED. HOWEVER, THE AUTHORS, EDITORS, AND PUBLISHERS TAKE NO RESPONSIBILITY AS TO THE CORRECTNESS OF THE CONTENT. FURTHER, SCIENTIFIC KNOWLEDGE IS CONSTANTLY CHANGING, AS NEW INFORMATION BECOMES AVAILABLE, THE CUSTOMER AND THE USERS MUST CONSULT IT. ALTHOUGH THE AUTHORS, PUBLISHER, AND EDITORS TOOK GREAT CARE IN PUBLISHING THE SCIENCE OF SYNTHESIS, IT IS POSSIBLE THAT TYPOGRAPHICAL ## ##THE CUSTOMER AND USER CAN FIND UNDER WWW.SCIENCE-OF-SYNTHESIS.COM A NON-EXHAUSTIVE LIST OF INTERNATIONAL SAFETY REGULATIONS, I.E. IT SERVES AS A GENERAL GUIDE. THE CUSTOMER AND USER REMAIN SOLELY RESPONSIBLE FOR IDENTIFYING ALL RELEVANT SAFETY REGULATIONS. THE CUSTOMER SHALL CAUSE ALL OF ITS USERS TO BE FREQUENTLY ALERTED TO THOSE GUIDELINES.**

 [Go to Science of Synthesis](#)

Science's Next Wave

Science's Next Wave is a weekly online publication that covers scientific training, career development, and the science job market. **##News Features: Job Market News; Career Transitions; Career and Job-Hunting News; Family and Career Issues; Women in Science; and Science's Big Debates. ##Free Access: Jobs Net (Job Listings) and Grant Net (Funding Source Database) ##Forum Topics: Career Advice, Careers in Science, Research Dilemmas, Job Search Support, Post Doc Issues, Big Debates, Grad Student Support Group, The Academic Life, and The Corporate Life ##Updates: Weekly**

 [Go to Science's Next Wave](#)

Scientific American Archive Online

This archive contains the fulltext and images from the journal Scientific American from 1993 to date.

 [Go to Scientific American Archive Online](#)

SciFinder Scholar

SciFinder Scholar is the client software used to search Chemical Abstracts. If you want to search Chemical Abstracts, you must download

SciFinder Scholar to your hard drive. Instructions are at this URL:

<http://www.libraries.psu.edu/physicalsciences/chemistry/downloadinstructions.htm>

 [Go to SciFinder Scholar](#)

Serial Set

The U.S. Serial Set, a full-text collection of U.S. Government publications compiled under the directive of Congress, includes Congressional reports and documents, executive agency and departmental reports ordered to be printed by Congress, the American State Papers, and all maps, illustrations, photos, and lithographs found within the U.S. Serial Set from 1789-1969. Covering every aspect of American life from the early 19th century onward, from farming, to westward expansion, scientific exploration, politics, international relations, business, and manufacturing.

 [Go to Serial Set](#)

SIAM journals archive (Locus)

Locus contains the electronic full text for every SIAM (Society for Industrial and Applied Mathematics) journal article published from the

journals (11 titles) inception through 1996. That's approximately 14,000 articles, about 285,000 pages, and more than 250,000 reference links.

 [Go to SIAM journals archive \(Locus\)](#)

SIAM journals (Society for Industrial and Applied Mathematics)

The electronic editions of SIAM's journals are published on an accelerated article-by-article basis. They are the definitive editions for SIAM's nine research journals; electronic articles are now published in final form months, and in some cases years, in advance of their print counterparts.

 [Go to SIAM journals \(Society for Industrial and Applied Mathematics\)](#)

Social Sciences Citation Index

The Social Sciences Citation Index is a multidisciplinary index to the journal literature of the social sciences.

 [Go to Social Sciences Citation Index](#)

Social Services Abstracts

This database provides bibliographic coverage of current research focused on social work, human services, and related areas, including social welfare, social policy, and community development. Coverage is from 1979 to date.

 [Go to Social Services Abstracts](#)

Society of Petroleum Engineers eLibrary

The eLibrary covers all aspects of the petroleum industry from exploration to production. It provides access to the fulltext of conference papers, journal articles and other resources published by the Society of Petroleum Engineers since 1958. ##This resource is not available on LIAS Express Workstations. ##The SPE requires each user to create a unique login to gain free access the eLibrary. ##At the SPE website, click login, then new user registration near the bottom of the login screen. Your login is your email address, so it will always be easy to remember. Once you are connected to the eLibrary, you will need to login each time to receive reduced or free access to the fulltext. (The eLibrary will recognize your Penn State IP address and allow you access to subscribed content.)

 [Go to Society of Petroleum Engineers eLibrary](#)

Sociological Abstracts

CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences. The database provides abstracts of journal articles and citations to book reviews drawn from over 1,700 serials publications, and also provides abstracts of books, book chapters, dissertations, and conference papers. Records added after 1974 contain in-depth and nonevaluative abstracts of journal articles.

 [Go to Sociological Abstracts](#)

Sociometrics Social Science Electronic Data Library

Sociometrics Social Science Electronic Data Library (SSEDL) consists of eight topically focused data archives, an online data analysis system, and teaching modules.

 [Go to Sociometrics Social Science Electronic Data Library](#)

SodaPop (Simple Online Data Archive for Population Studies)

SodaPop or Simple Online Data Archive for Population Studies is a web-based system that allows users to extract data and view codebooks and other documentation on line. Data is selected from the existing PRI Data Archive (a facility of the Information Core at PRI), and is maintained (for currency) by the data archivist.

 [Go to SodaPop \(Simple Online Data Archive for Population Studies\)](#)

SourceOECD

Full-text book and serial publications from the Organisation for Economic Cooperation and Development. Also includes many of the data sets available from the organization.

 [Go to SourceOECD](#)

SPIE Digital Library

The SPIE Digital Library contains the full text of all papers appearing in SPIE Proceedings and SPIE journals from 1998 to the present, plus a substantial amount of full text coverage going back to 1990. SPIE publications cover all areas of optics and photonics.

 [Go to SPIE Digital Library](#)

SPIN database (Searchable Physics Data Notices)

SPIN is the Searchable Physics Information Notices Database. It provides bibliographic citations and abstracts to articles published in 80 journals since 1975. It is updated daily.

 [Go to SPIN database \(Searchable Physics Data Notices\)](#)

SPORTDiscus

SPORT Discus is a resource for literature on sport, physical fitness and physical education topics. Topics covered include sports medicine, exercise psychology, biomechanics, kinesiology, sport and exercise psychology, sport law, training techniques, coaching, physical education and fitness, facilities, and other sport- and fitness-related topics. Both practical and research level literature is covered, with about 25% of the citations to research level materials. Sources include journals, magazines, newsletters, books, microforms, reports, pamphlets, conferences, and theses and dissertations. The coverage is international, with citations in 50 languages included, and range from 1975 to the present. Because of its international scope, much of the literature indexed in SPORT Discus is not available at Penn State.

 [Go to SPORTDiscus](#)

Sports Business Research Network (SBRnet)

Sports Business Resource Network is a sporting goods and sports marketing database containing full-text market research reports, industry statistics, consumer expenditures, and full-text publications.

 [Go to Sports Business Research Network \(SBRnet\)](#)

SpringerLink (MetaPress)

Access to electronic editions of journals to which Penn State University Libraries subscribes, published by a company called Springer-Verlag. Journals cover the fields of chemistry, computer science, economics, engineering, environmental sciences, geosciences, life sciences, mathematics, medicine, and physics. ##Coverage: 1996-present. ##Updates: Continuous

 [Go to SpringerLink \(MetaPress\)](#)

SRDS Media Solutions

SRDS provides a number of different advertising sources covering: television, radio, newspapers, and consumer and business publications.

 [Go to SRDS Media Solutions](#)

Staff College Automated Military Periodicals Index (SCAMPI)

This database serves as a current (1997 - present) guide to articles on military and naval art and science, operational warfare, joint planning, national and international politics, and other areas researched by Joint Forces Staff College faculty, staff, and students. The index is updated quarterly. Retrospective conversion for records from the past 40+ years is ongoing.

 [Go to Staff College Automated Military Periodicals Index \(SCAMPI\)](#)

Standard & Poor's NetAdvantage

Standard & Poor's NetAdvantage offers Web access to Standard & Poor's traditional library of company, financial, industry, and equity information.

 [Go to Standard & Poor's NetAdvantage](#)

Stanford Encyclopedia of Philosophy

The Stanford Encyclopedia of Philosophy is a dynamic reference work in which each entry is maintained and kept up to date by an expert or group of experts in the field. All entries and updates are refereed by the members of a distinguished Editorial Board before they are made public. Because of this dynamic model, the Stanford Encyclopedia of Philosophy is responsive to new research.

 [Go to Stanford Encyclopedia of Philosophy](#)

Stat!Ref

STATRef is a cross-searchable medical information database for healthcare professionals, integrating core full-text biomedical and nursing books with evidence-based resources and innovative tools in one site.

 [Go to Stat!Ref](#)

Statsbiblioteket

The State and University Library is a legal deposit library. According to law it receives a free copy of all books, periodicals, newspapers and other material published in Denmark. The State and University Library is also the domicile of The National Newspaper Archive. As the main library to the University of Aarhus the State and University Library supplies researchers, teachers, and students at the university and also at other institutions of higher education in the Århus-area with books and papers, and information and documentation in all subject areas.

 [Go to Statsbiblioteket](#)

STAT-USA

STAT-USA/Internet, a service of the U.S. Department of Commerce, is the site for the U.S. business, economic and trade community, providing authoritative information from the Federal government. **##NOTE!!** The licensing agreement to this database RESTRICTS ACCESS to LIBRARIES workstations at UNIVERSITY PARK only. You cannot access this database from remote locations, or from other University Park locations, such as CAC labs.

 [Go to STAT-USA](#)

Sustainability Science Abstracts

This database contains resources related to sustainable development and conservation of natural resources. Coverage is from 1995 to date.

 [Go to Sustainability Science Abstracts](#)

TableBase (business and marketing)

TableBase provides tabular and statistical data on companies, industries, products, and demographics. Subject areas include market share, company and brand rankings, industry and product forecasts, imports and exports, production and consumption statistics, number of users, and trends. Ninety percent of the records are full-text. It is international in scope and is updated weekly.

 [Go to TableBase \(business and marketing\)](#)

Television News Archive

The Television News Archive collection at Vanderbilt University is the world's most extensive and complete archive of television news. The collection holds more than 30,000 individual network evening news broadcasts from the major U.S. national broadcast networks: ABC, CBS, NBC, and CNN, and more than 9,000 hours of special news-related programming including ABC's Nightline since 1989. These special reports and periodic news broadcasts cover presidential press conferences and political campaign coverage, and national and international events such as the Watergate hearings, the plight of American hostages in Iran, the Persian Gulf war, and the terrorist attack on the United States on September 11, 2001. Material in the archive can be identified for use through our TV-NewsSearch Database. In addition, through its detailed content related to news events, this resource also serves as a unique reference tool for studying historical and political events. Users will have the ability to view online video from the Archive's collection of CNN material, if they have the RealOne media player from RealNetworks. This software can be obtained from the Real Networks website.

 [Go to Television News Archive](#)

The Bible in English

The Bible in English contains twenty versions of the Bible, from Old English, through the Middle Ages and Renaissance, and into the twentieth century. In addition to the twelve complete Bibles, there are five New Testament works, two Gospel works and William Tyndale's New Testament, Pentateuch and Jonah translations.

 [Go to The Bible in English](#)

The CAT - Penn State Library Catalog

The online catalog of materials owned by Penn State Libraries. All formats (books, journals, audiovisuals, maps, recordings, etc.) are included. Circulation status for individual items also provided. **##Coverage:** Presently contains about 2 million titles. Updates: Continuous up-to-the-minute as new records are added

 [Go to The CAT - Penn State Library Catalog](#)

Thesaurus Linguae Graecae (TLG)

The Thesaurus Linguae Graecae (TLG) is a research center at the University of California, Irvine. Founded in 1972, the TLG has already collected and digitized most literary texts written in Greek from Homer to the fall of Byzantium in AD 1453. The database now contains over 76 million words of text from over 6,600 works and work collections from nearly 2,000 authors.

 [Go to Thesaurus Linguae Graecae \(TLG\)](#)

Theses & Dissertations Catalog

The Networked Digital Library of Theses and Dissertations Union Catalog will serve as a repository of rich graduate educational material contributed by a number of member institutions worldwide. The hope is that this project will increase the availability of student research for scholars, empower students to convey a richer message through the use of multimedia and hypermedia technologies and advance digital library technology worldwide.

 [Go to Theses & Dissertations Catalog](#)

Times of London Digital Archive (1785-1985)

Researchers can search through the complete digital edition of The Times (London), using keyword searching and hit-term highlighting to retrieve full facsimile images of either a specific article or a complete page. The entire newspaper is captured, with all articles, advertisements and illustrations/photos divided into categories to facilitate searching.

 [Go to Times of London Digital Archive \(1785-1985\)](#)

Times of London (Palmer Index)

Palmer's Index to The Times contains records from the 461 printed volumes of Palmer's Index to the London Times newspaper. Articles can be located by broad subject headings, date of publication, or title keywords. Obituaries are under the heading "Deaths". For articles after 1905 consult the print volumes for the Official Index to the Times, available in the Microforms and Newspapers Library, Ground Floor West Pattee (Call # A121.T46). The text of the Times is on microfilm, Call # Microfilm E200

 [Go to Times of London \(Palmer Index\)](#)

TIPS Dial Access

Audio-streamed lectures for the exclusive use of those students currently enrolled in the course.

 [Go to TIPS Dial Access](#)

TLS Centenary Archive

Fully indexed page images of the TLS (Times Literary Supplement) from 1902 until 1990. Identifies authors of anonymously published articles previous to 1974.

 [Go to TLS Centenary Archive](#)

TOCS-IN

TOCS-IN provides the tables of contents of a selection of Classics, Near Eastern Studies, and Religion journals, both in text format and through a Web search program.

 [Go to TOCS-IN](#)

Toxicology Abstracts

Toxicology Abstracts covers issues from social poisons and substance abuse to natural toxins, toxicology studies of industrial and agricultural chemicals, household products, pharmaceuticals, and myriad other substances, from legislation and recommended standards to environmental issues. Topics of current concern such as the effects of alcohol and smoking, drug abuse, hydrocarbon studies, nitrosamines, radiation and radioactive materials, and much more are extensively examined. Toxicity testing methodology and analytical procedures for toxic substances are also covered. Coverage is from 1981 to date.

 [Go to Toxicology Abstracts](#)

TOXLINE

TOXLINE offers rapid access to information in all areas of toxicology, including chemicals and pharmaceuticals, pesticides, environmental pollutants, and mutagens and teratogens.

 [Go to TOXLINE](#)

TOXNET

TOXNET is a cluster of Databases on toxicology, hazardous chemicals, environmental health, and toxic releases. Databases include: ##HSDBA (Hazardous Substances Data Bank) - toxicology of over 5,000 potentially hazardous chemicals. ##IRIS (Integrated Risk Information System) - carcinogenic and non-carcinogenic health risk information on over 500 chemicals. ##ITER (International Toxicity Estimates for Risk) - human health risk assessments. ##CCRIS (Chemical Carcinogenesis Research Information System). - over 9,000 chemical records with carcinogenicity, mutagenicity, tumor promotion, and tumor inhibition test results. ##GENE-TOX (Genetic Toxicology) - genetic toxicology test results on over 3,200 chemicals. ##Household Products Database - information on the potential health effects of chemicals contained in more than 6,000 common household products used inside and around the home. ##Haz-Map (Map) - An occupational toxicology database designed primarily for health and safety professionals, but also for consumers seeking information about the health effects of exposure to chemicals and biologicals at work. ##LactMed (Drugs and Lactation) - A database of drugs and other chemicals to which breastfeeding mothers may be exposed. ##TOXLINE (Literature) - literature on the biochemical, pharmacological, physiological, and toxicological effects of drugs and other chemicals from 1965 to the present. ##DART (Development and Reproductive Toxicology/Environmental Teratology Information Center) - literature on reproductive and developmental toxicology. ##Toxics Release Inventory (TRI) - describe the releases of toxic chemicals into the environment annually for the 1987-2004 reporting years. ##ChemIDplus - access to structure and nomenclature authority databases used for the identification of chemical substances cited in NLM databases.

 [Go to TOXNET](#)

Treasures Film Archives

The Treasures from the Film Archives database contains unique information about silent film holdings in international film archives.

 [Go to Treasures Film Archives](#)

TRIS (Transportation Research Information Service)

Provides bibliographic access to transportation research published in journals, books, technical reports, and other media. It is produced by the Transportation Research Board and the U.S. Department of Transportation.

 [Go to TRIS \(Transportation Research Information Service\)](#)

Turfgrass Information Service

The Turfgrass Information Center (TIC) provides access to a database of published materials reporting on aspects of turfgrass and its maintenance. This includes conference proceedings, trade publications, scientific journals, extension bulletins, and newsletters. ##TIC is a specialized unit at the Michigan State University Libraries and has over 100,000 records in its primary database, the Turfgrass Information File (TGIF).

 [Go to Turfgrass Information Service](#)

Twentieth - Century African American Poetry

AA database of modern and contemporary African American poetry, featuring almost 9,000 poems by 62 of the most important African American poets of the last century, including Langston Hughes, Jean Toomer, Imamu Amiri Baraka, Audre Lorde and Rita Dove.

 [Go to Twentieth - Century African American Poetry](#)

Twentieth - Century American Poetry

This collection includes 50,000 poems drawn from 750 volumes by over 300 poets, including Adrienne Rich, Andrei Codrescu, Ezra Pound, William Carlos Williams, Denise Levertov, Wallace Stevens, Langston Hughes, Lucille Clifton, and Cathy Song.

 [Go to Twentieth - Century American Poetry](#)

Twentieth - Century Drama

Full texts of plays from the English-speaking world from 1890 to the present. Includes works of J.M. Barrie, Lady Gregory, Bernard Shaw, Tony Harrison, Oscar Wilde, and W.B. Yeats. Texts are searchable by word, genre, and nationality. Includes a tables of contacts for performance rights.

 [Go to Twentieth - Century Drama](#)

Twentieth - Century English Poetry

Full texts of the works of over 285 poets from Kipling and Yeats to the present day. Incorporates works from the Faber Poetry Library, including the works of Americans such as Eliot and Plath

 [Go to Twentieth - Century English Poetry](#)

Ulrich'sWeb

Ulrichsweb.com provides data on over a quarter-million serials titles (magazines, newspapers, newsletters, journals, etc...) produced around the world. Information typically provided includes: status (active/inactive), subscription price, publisher information, frequency of publication, ISSN, whether the publication is refereed, and which indexes cover the title. In some cases circulation and advertising data, tables of contents, and links to online materials are provided. Includes reviews from the publication Magazines for Libraries.

 [Go to Ulrich'sWeb](#)

UN Comtrade

Comtrade provides commodity trade data for all available countries and areas since 1962. Currently, it contains almost 700 millions records. Download functions are limited.

 [Go to UN Comtrade](#)

United Nations Treaty Collection

This collection includes five categories of treaty-related data: ##Status of Multilateral Treaties deposited with the Secretary-General ##The United Nations Treaty Series (full text) ##Recently Deposited Multilateral Treaties ##Photographs of Treaty Signature ceremonies ##Titles of the Multilateral Treaties deposited with the Secretary-General in the UN official languages. ##A complete description of the database is available at: <http://untreaty.un.org/English/overview.asp> ## ##As of April 2000, the database contains full text of treaties from 1992-to date. Additional years are continually added.

 [Go to United Nations Treaty Collection](#)

University of Chicago Library Catalog

 [Go to University of Chicago Library Catalog](#)

University of Illinois at Urbana-Champaign Library Catalog

 [Go to University of Illinois at Urbana-Champaign Library Catalog](#)

University of Illinois-Chicago Library Catalog (UICCAT)

 [Go to University of Illinois-Chicago Library Catalog \(UICCAT\)](#)

University of Iowa Library Catalog (InfoHawk)

 [Go to University of Iowa Library Catalog \(InfoHawk\)](#)

University of Michigan Library Catalog (MIRLYN)

 [Go to University of Michigan Library Catalog \(MIRLYN\)](#)

University of Minnesota Library Catalog (MNCAT)

 [Go to University of Minnesota Library Catalog \(MNCAT\)](#)

University of Wisconsin-Madison Library Catalog (MadCat)

 [Go to University of Wisconsin-Madison Library Catalog \(MadCat\)](#)

University Park Campus History Collections

This collection of primary source materials focuses on the design and planning of the Penn State University Park campus. The development of the campus from the 1870s to the 1970s is documented by a selection of maps, photographs, construction drawings, specifications, statistical information, and news releases and articles. Important designers such as Charles Z. Klauder have shaped the campus which includes two National Register Historic Districts - the Ag Hill District and the Old Campus Complex. This selection of approximately 200 images provides examples of the much larger collection in the University Archives, part of the Libraries' Special Collections.

 [Go to University Park Campus History Collections](#)

UNSTATS

UNSTATS provides data on a wide range of social and economic data series from 30 specialized international intergovernmental agencies including POPIN, World Bank, IMF, UNESCO, UNICEF, and WHO. Data can be displayed in HTML or downloaded in Excel or CSV format.

 [Go to UNSTATS](#)

U.S. Supreme Court Records and Briefs, 1832-1978

The U.S. Supreme Court Records and Briefs digital collection offers full-text searching of documents from 1832 to 1978. Types of records include appellant and appellee briefs, amicus briefs, petitions, trial transcripts, and more.

 [Go to U.S. Supreme Court Records and Briefs, 1832-1978](#)

USPTO Patent Database

The database consists includes information about all US patents (including utility, design, reissue, plant patents and SIR documents) from the first patent issued in 1790 to the most recent issue week. ## ##Patents from January 1976 to the present offer the full searchable text, including all bibliographic data, such as the inventor's name, the patent's title, and the assignee's name; the abstract; the full description of the invention; and the claims. The display of each patent's full-text includes a hyperlink to obtain full-page images of each page of the patent. Information from Certificates of Correction and Reexaminations is not included in the full-text database per se, but can be found as pages attached to the full-page images of the original patent. ## ##Patents from 1790 to December 1975 offer only the patent number and the current US patent classification in the text display, and can be searched only by those fields. However, this limited text display also includes a hyperlink to obtain full-page images of each page of the patent.

 [Go to USPTO Patent Database](#)

Value Line

Value Line is the standard investment advisory service. The Web research center provides access to the standard Value Line Investment Survey and to its related resources.

 [Go to Value Line](#)

Vault Online Career Library

Vault provides full-text career and industry guides; company profiles; occupation descriptions; and career-related articles.

 [Go to Vault Online Career Library](#)

Vital Statistics on American Politics

200 tables on US elections and political parties, public opinion and voting, the media, the three branches of U.S. government, foreign, military, social and economic policy. Contains some time series data. Data can be exported for use in excel or other statistical software.

 [Go to Vital Statistics on American Politics](#)

Water Resources Abstracts

Water Resources Abstracts provides summaries of the world's technical and scientific literature on water-related topics covering the characteristics, conservation, control, pollution, treatment, use and management of water resources. Abstracts are drawn from journals, books, conference proceedings, and technical reports in the physical and life sciences, as well as from engineering, legal and government publications.

 [Go to Water Resources Abstracts](#)

W.B. Yeats Collection

Full texts of the Irish author's poetry, plays, and prose, taken from the standard Scribner/Macmillan Collected Edition of the Works of W. B. Yeats and from other sources.

 [Go to W.B. Yeats Collection](#)

Web of Science

Web of Science provides access to: the Science Citation Index Expanded 1900-present; the Social Sciences Citation Index 1956-present; and the Arts & Humanities Citation Index 1975-present. ##Web of Science indexes articles from thousands of journals and also indexes the citations used in those articles, thus allowing the user to see which papers have cited a core paper, and how many times a paper was cited in a given time period. ##Subjects include: Agriculture, Anthropology, Archaeology, Architecture, Art, Asian Studies, Astronomy, Biochemistry, Biology, Biotechnology, Business, Chemistry, Classics, Communications, Computer Science, Dance, Economics, Electronics, Engineering, Finance, Folklore, Geosciences, History, Industrial Relations, Information Science & Library Science, Language, Law, Linguistics, Literary Reviews, Literature, Materials Science, Mathematics, Medicine, Microbiology, Music, Neuroscience, Oncology, Pediatrics, Pharmacology, Philosophy, Physics, Plant Sciences, Poetry, Political Science, Psychiatry, Psychology, Public Health, Radio, Television, & Film, Religion, Social Work, Sociology, Technology, Theater, Urban Studies, Veterinary Science, Women's Studies, Zoology.

 [Go to Web of Science](#)

Webster's Third International Dictionary, Unabridged

The full text of the 1961 edition of the standard work, with updates to 1996.

 [Go to Webster's Third International Dictionary, Unabridged](#)

Weldasearch

Weldasearch is a comprehensive database containing abstracts in the areas of joining metals, plastics and ceramics, metal and ceramic spraying, thermal cutting, brazing, soldering and related topics. Every aspect of welding and allied processes is covered including design, metallurgy, fatigue and fracture mechanics, equipment for joining and cutting processes, corrosion, surfacing, micro joining, quality control, nondestructive testing, safety, commercial applications, market statistics and news of the industry. Coverage: 1967-present.

 [Go to Weldasearch](#)

Westlaw Campus

Westlaw Campus is an academic version of the legal database, Westlaw. Users can search the full-text of federal and state cases, statutes and administrative codes, as well as American Jurisprudence 2d, American Law Reports, and hundreds of law journals.

 [Go to Westlaw Campus](#)

Wharton Research Data Service (WRDS)

WRDS provides Web access to a number of financial research databases, including Compustat, CRSP (Center for Research in Securities Prices), Dow Jones Averages, FDIC, Philadelphia Stock Exchange, and TAQ (Trades and Quotations). ##Accessing the Database: ##Users open individual accounts by applying at the WRDS home page. WRDS will send the user's account name and password to the Penn State WRDS administrator within 48 hours, who will verify that the user is a Penn State faculty, staff, or student. The Penn State WRDS administrator will then forward account information to the individual user.

 [Go to Wharton Research Data Service \(WRDS\)](#)

Wikipedia - English

Wikipedia has rapidly grown into the largest reference website on the Internet. ##The content of Wikipedia is free, written collaboratively by people from all around the world. ##This website is a wiki, which means that anyone with access to an Internet-connected computer can edit, correct, or improve information throughout the encyclopedia, simply by clicking the edit this page link (with a few minor exceptions such as protected articles).

 [Go to Wikipedia - English](#)

Wildlife & Ecology Studies Worldwide

Wildlife and Ecology Studies Worldwide is the world's largest index to literature on wild mammals, birds, reptiles, and amphibians. All aspects of wildlife and wildlife management are covered, with a global perspective. Major topic areas include studies of individual species, habitat types, hunting, economics, wildlife behavior, management techniques, diseases, ecotourism, zoology, taxonomy and much more. Coverage is 1935 to present.

 [Go to Wildlife & Ecology Studies Worldwide](#)

Wiley Interscience Journals

More than 300 online publications for researchers and professionals.

 [Go to Wiley Interscience Journals](#)

Women and Social Movements

The database includes books, images, audiofiles, documents, scholarly essays, commentaries, and bibliographies on women's issues.

social movements from colonial times to the present.

 [Go to Women and Social Movements](#)

Women's History Online, 1543-1945 (Gerritsen)

Full text books, pamphlets and periodicals reflecting the evolution of feminist consciousness and the movement for women's rights through 1945. Includes materials from continental Europe, the U.S., the United Kingdom, Canada, and New Zealand, dating from 1543-1945. The anti-feminist case is presented as well as the pro-feminist; many other titles present a purely objective record of the condition of women at a given time.

 [Go to Women's History Online, 1543-1945 \(Gerritsen\)](#)

Women's Studies International

This resource provides access to over 232,000 records drawn from ten important Women's Studies databases. Among the databases included in Women's Resources International are Womens Studies Abstracts, one of the premiere Women's Studies indexes; four files from Women Studies Librarian at the University of Wisconsin; Popline Subset on Women; and Women's Health and Development: An Annotated Bibliography of Mostly English Language Journal Articles from the World Health Organization. ###Coverage: 1972 to date; citations and abstracts only. Updated semiannually.

 [Go to Women's Studies International](#)

World Bank e-Library

World Bank E-Library presents fulltext PDF-format versions of all new World Bank books and selected books beginning in 1984. More than 1,200 titles cover all areas of World Bank interests. This collection complements World Development Sources, the fulltext grey literature collection of World Bank documents and reports.

 [Go to World Bank e-Library](#)

World Christian Database

The World Christian Database (WCD) includes detailed###information on all major world religions. Extensive religious and secular statistics are available on 9,000 Christian denominations, 238 countries and 13,000 ethnolinguistic peoples, as well as on 5,000 cities and 3,000 provinces. The WCD incorporates the core data from the World Christian Encyclopedia(WCE) and World Christian Trends (WCT). However, statistics in the WCD constitute a significant update of the data published in WCE/WCT in 2001. WCD is an initiative of the Center for the Study##of Global Christianity at Gordon-Conwell Theological Seminary.

 [Go to World Christian Database](#)

World Development Indicators

World Development Indicators includes nearly 800 statistical indicators related to social and economic development. It is organized in six sections: World View, People, Environment, Economy, States and Markets, and Global Links. The tables cover 152 economies and 14 country groups-with basic indicators for a further 55 economies. Data can be downloaded for further manipulation.

 [Go to World Development Indicators](#)

World News Connection

World News ConnectionÂ® (WNC) contains full-text translated summaries from the Foreign Broadcast Information Service (FBIS) Daily Reports for the following materials: ##newspaper articles ##conference proceedings ##radio and television broadcasts ##periodicals ##non-classified technical reports

 [Go to World News Connection](#)

World Scientific e-journals (Physics, Mathematics, Computer Science)

Provides access to electronic journals published by World Scientific to which Penn State subscribes. Major subject areas included are physics, mathematics, and computer science.

 [Go to World Scientific e-journals \(Physics, Mathematics, Computer Science\)](#)

World Shakespeare Bibliography

An index to recent literature on all aspects of public administration. A database of scholarly and popular materials related to Shakespeare and published or produced between 1972 and the present. Includes books, articles, book reviews, dissertations, theatrical productions, reviews of productions, audiovisual materials, electronic media.

 [Go to World Shakespeare Bibliography](#)

WorldCat (OCLC)

OCLC WorldCat database is the OCLC online catalog. It contains over 43 million records describing library holdings.

 [Go to WorldCat \(OCLC\)](#)

Worldwide Building and Landscape Pictures

This growing collection of several thousand color images of historic architecture and landscape design focuses on the major monuments in found in the textbooks most commonly used in survey courses. These pictures have been gathered for Penn State users from a variety of sources: professional color photography that has been licensed for Penn State use, original color photography provided by university faculty, and some copies from books and similar sources. This version of the database has been provided exclusively for Penn State users.

 [Go to Worldwide Building and Landscape Pictures](#)

Worldwide Political Science Abstracts

CSA Worldwide Political Science Abstracts is building on the merged backfiles of Political Science Abstracts, published by IFI / Plenum, 1975-2000, and ABC POL SCI, published by ABC-CLIO, 1984-2000. The database provides citations, abstracts, and indexing of the international serials literature in political science and its complementary fields, including international relations, law, and public administration / policy. The serials list of the new database is actively under construction, with a focus on expanding international coverage. As of February 2004 approximately 1,432 titles are being monitored for coverage; this list will continue to grow. ##Enhancements to the new database include the capability to link to electronic fulltext and the addition of new fields to the record structure. Furthermore, many records from key journals in political science, published since 2000, also include the references cited in the bibliography of the source article. Each individual reference may also have links to an abstract and/or to other papers that cite that reference; these links increase the possibility of finding more potentially relevant articles. All records added since 2000 are indexed using a thesaurus of over 3,000 terms. ### ##Subject Coverage ##Major areas of coverage include: ##Comparative politics ##Developing nations ##Disarmament ##Economic policy ##Electoral systems ##Environmental policy ##Government/Political systems ##History and theory of political science ##International relations/trade ##Labor relations ##Military policy ##Methodology and research technology ##Political behavior ##Political economy ##Political psychology ##Politics and law ##Politics and communication ##Politics and religion ##Politics and society ##Public administration ##Security and defense ##Welfare systems ## ##Dates of Coverage ##1975 - current

 [Go to Worldwide Political Science Abstracts](#)

Wright American Fiction, 1851-1875

Contains full texts of American novels first published between 1851 and 1875. Includes works by Louisa May Alcott, Mark Twain, Nathaniel Hawthorne, Herman Melville, and many others.

 [Go to Wright American Fiction, 1851-1875](#)

Yearbook of International Organizations

This guide to global civil society networks provides extensive coverage of non-profit international organizations available today whether governmental or non-governmental. More than just a directory, the yearbook provides: organization descriptions; international organization participation; global action networks; a bibliography of resources; and statistics.

 [Go to Yearbook of International Organizations](#)

Zacks University Analyst Watch

Zacks University Analyst Watch is an investments resource providing company information, analysts' recommendations, earnings information and projections, stock quotes and graphs, and stock screening tools. The site also offers investments tutorials, allows users to construct stock portfolios, and provides a section where faculty can post assignments.

 [Go to Zacks University Analyst Watch](#)

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APPENDIX 20



WEB TEXTS VIDEO AUDIO SOFTWARE IMAGES

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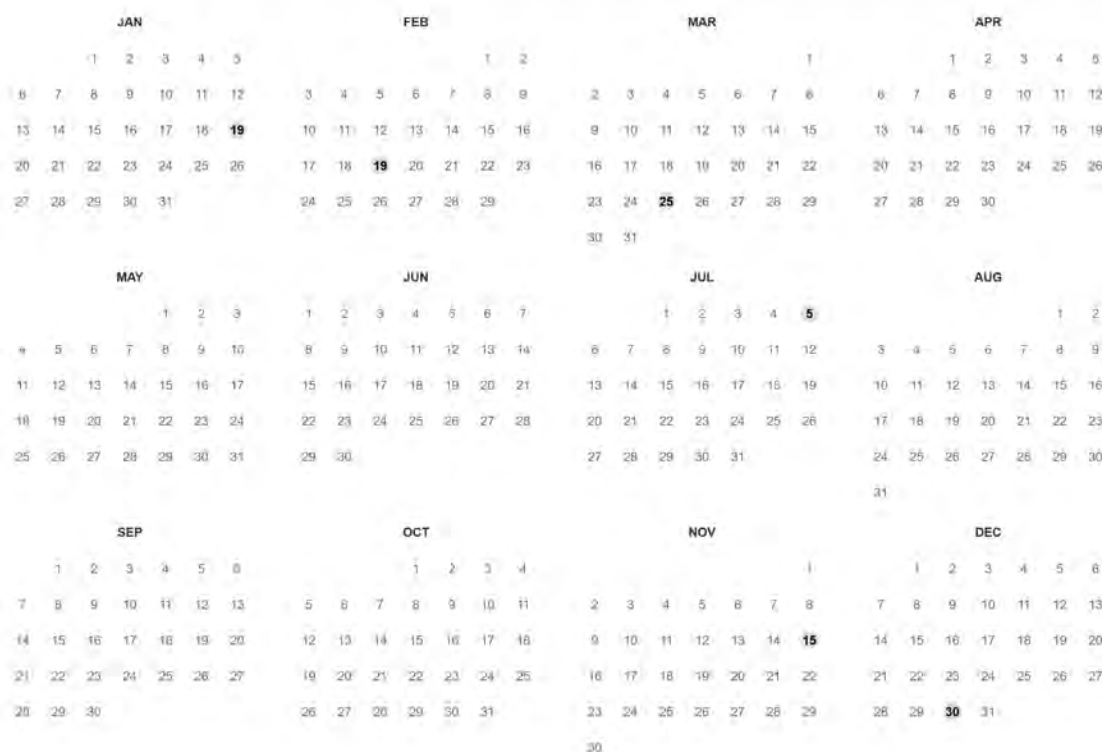
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Note

This calendar view maps the number of times http://www.libraries.psu.edu/eres/PSU_azdesc.html was crawled by the Wayback Machine, *not* how many times the site was actually updated. More info in the [FAQ](#).

[FAQ](#) | [Contact Us](#) | [Terms of Service](#) (Dec 31, 2014)

The Wayback Machine is an initiative of the Internet Archive, a 504(c)(3) nonprofit building a digital library of Internet sites and other cultural artifacts in digital form. Other projects include Open Library & archive.org.

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UNIVERSITY LIBRARIES

The CAT Course Reserves Databases Hours InterLibrary Loan My Library Account

University Libraries Home > Databases

Database Descriptions

Alphabetical List A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

19th Century Newspapers, British Library Collection

The 19th Century British Library Newspapers collection contains full runs of 48 newspapers specially selected by the British Library to best represent nineteenth century Britain. This new collection includes national and regional newspapers, as well as those from both established country or university towns and the new industrial powerhouses of the manufacturing Midlands, as well as Scotland, Ireland and Wales. Special attention was paid to include newspapers that helped lead particular political or social movements such as Reform, Chartism, and Home Rule. The penny papers aimed at the working and clerical classes are also present in the collection. Can be cross-searched with the Burney Collection of 17th and 18th Century newspapers.

[Go to 19th Century Newspapers, British Library Collection](#)

ABELL (Annual Bibliography of English Language and Literature)

Coverage of monographs, periodical articles, critical editions of literary works, book reviews, collections of essays, and doctoral dissertations published anywhere in the world from 1920 onwards. Includes links to the full text of 120 journals.

[Go to ABELL \(Annual Bibliography of English Language and Literature\)](#)

ABI/INFORM Complete

Search a complete database comprising full-text business periodicals and news sources from ABI/INFORM Global, Dateline, and Trade & Industry

[Go to ABI/INFORM Complete](#)

ABSEES (American Bibliography of Slavic and East European Studies)

American Bibliography of Slavic & Eastern European Studies (ABSEES), produced by the University of Illinois at Urbana-Champaign, provides information on East-Central Europe and the former Soviet Union. Some of the many subjects covered include: anthropology, culture & the arts, economics, education, and geography. Sources indexed include journals, books, dissertations, online resources and selected government publications published in the U.S. and Canada.

[Go to ABSEES \(American Bibliography of Slavic and East European Studies\)](#)

ACCESS PA

The ACCESS PA Database is a world wide web-based bibliographic union catalog and resource sharing guide to over 2,500 school, public, academic and special libraries in Pennsylvania. The database contains over 5.6 million unique records from the catalogs of Pennsylvania library collections covering over 35 million Pennsylvania library holdings.

[Go to ACCESS PA](#)

Access Science (McGraw-Hill Encyclopedia of Science & Technology)

Online access to the ninth edition of the McGraw Hill Encyclopedia of Science & Technology plus these special features: New trends and developments in science and technology ("Research Updates") from the McGraw-Hill Yearbooks of Science & Technology ##Access to 110,000+ definitions from The McGraw-Hill Dictionary of Scientific & Technical Terms ##Biographies of scientists ##Links to evaluated related websites ##Image gallery of various scientific phenomena ##Subject areas covered include agriculture, anthropology, astronomy, biomedical science, chemistry, computing and information technology, earth science, engineering, food science, mathematics, military science, paleontology, physics, psychiatry, psychology, and veterinary science.

[Go to Access Science \(McGraw-Hill Encyclopedia of Science & Technology\)](#)

Accessible Archives

Accessible Archives provides access to the full texts of articles from a selection of 18th & 19th century American newspapers (more than 175,000 articles). The newspapers selected are especially useful for researching African American, women's studies, and Pennsylvania topics but can also help with many other types of historical research. ##Keywords: Civil War, colonial, revolution, Revolutionary War, abolition, abolitionists, slavery.

[Go to Accessible Archives](#)

AccessUN

AccessUN is an index to United Nations documents and publications, from 1966 to date. The database is used to access the microfiche collection held in the Social Sciences Library, Second Floor, West Pattee. ##Indexes: ##Working documents of the main UN bodies including the General Assembly, Security Council, Economic and Social Council, commissions, UN conferences, and regional bodies ##Sales publications ##Articles in UN periodicals ##Full text: ##Resolutions from the General Assembly (1981-), the Security Council (1974-), and the Economic and Social Council (1982-). ##Selected meetings containing voting records

[Go to AccessUN](#)

AccessUNDP

The foremost index to a finite collection of United Nations Development Programme Project Reports issued and held by UN headquarters between the years 1972-1998. The index provides access to evaluative, technical and terminal reports (available microfiche in the Social Sciences Library)

[Go to AccessUNDP](#)

ACM Digital Library

Full text of every article ever published by ACM.

[Go to ACM Digital Library](#)

ACS E-Journals (chemistry)

Provides full text access to over twenty American Chemical Society journals.

Get Help

ASK! a Librarian
(chat, email, phone)
How Do I?
Tutorials
Site Index
More...



Information and Services

For Students
For Faculty, Instructors, and Staff
For Visitors
For Off-Campus Users
For Persons with Disabilities
For Alumni

 [Go to ACS E-Journals \(chemistry\)](#)

Advertising Law Guide

Includes full-text reports of state and federal laws and regulations, industry self-regulating guidelines, and new developments. Also includes explanatory notes to help interpret the law and explanations by authors with expertise in advertising, marketing, and intellectual property issues.

 [Go to Advertising Law Guide](#)

Aerospace + High Technology Database

The Aerospace Database provides bibliographic coverage of basic and applied research in aeronautics, astronautics, and space sciences. The database also covers technology development and applications in complementary and supporting fields such as chemistry, geosciences, physics, communications, and electronics. In addition to periodic literature, the database also includes coverage of reports issued by NASA, other U.S. government agencies, international institutions, universities, and private firms. Coverage: 1962-present

 [Go to Aerospace + High Technology Database](#)

African American Poetry

A database of modern and contemporary African American poetry, featuring thousands of poems by some of the most important African American poets of the last century, including Langston Hughes, Jean Toomer, Imamu Amiri Baraka, Audre Lorde and Rita Dove.

 [Go to African American Poetry](#)

AGRICOLA Articles

AGRICOLA contains references for journal articles, book chapters, audiovisuals, and other agricultural resources. These resources encompass all aspects of agriculture such as animal and veterinary sciences including poultry and dairy, entomology, plant sciences such as horticulture, crop and soil science, and plant pathology, forestry, aquaculture and fisheries, farming and farming systems, rural and community development, agricultural economics, extension and education, food and human nutrition, food science, agricultural engineering, and earth and environmental sciences. Also indexes publications from USDA, State Experiment Stations, and State Extension Services.

 [Go to AGRICOLA Articles](#)

AGRICOLA Books

The NAL Online Public Access Catalog (AGRICOLA Books) contains citations to books, audiovisuals, serials, and other materials, most of which are in the USDA's National Agricultural Library in Beltsville, MD. These resources encompass all aspects of agriculture such as animal and veterinary sciences including poultry and dairy, entomology, plant sciences such as horticulture, crop and soil science, and plant pathology, forestry, aquaculture and fisheries, farming and farming systems, rural and community development, agricultural economics, extension and education, food and human nutrition, food science, agricultural engineering, and earth and environmental sciences.

 [Go to AGRICOLA Books](#)

Agropedia (agriculture encyclopedias)

A collection of agriculture encyclopedias, including: Encyclopedia of Animal Science; Encyclopedia of Plant & Crop Science; Encyclopedia of Agricultural, Food, & Biological Engineering; Encyclopedia of Water Science; Encyclopedia of Soil Science; and Encyclopedia of Pest Management.

 [Go to Agropedia \(agriculture encyclopedias\)](#)

AGU E-Journals

The American Geophysical Union (AGU) is devoted to the scientific study of Earth and its environment. The AGU focuses its research in four fundamental areas: atmospheric and ocean sciences; solid-Earth sciences; hydrologic sciences; and space sciences. This resource provides access to the fulltext of six AGU journals: the Journal of Geophysical Research (JGR), Geophysical Research Letters, Global Biogeochemical Cycles, G-Cubed (Geochemistry, Geophysics, Geosystems), Paleoceanography, Reviews of Geophysics, Tectonics, and Water Resources Research. Coverage is from 1994 to date.

 [Go to AGU E-Journals](#)

AIAA Online Publications (aerospace engineering)

This resource provides access to the full text of all articles and technical papers published since 2001 by the American Institute of Aeronautics and Astronautics (AIAA).

 [Go to AIAA Online Publications \(aerospace engineering\)](#)

AIP & APS E-Journals (physics)

Full text access to American Institute of Physics and American Physical Society electronic journals. See also IOP E-Journals (physics) for more full text physics journals.

 [Go to AIP & APS E-Journals \(physics\)](#)

Air University Library's Index to Military Periodicals

A subject index to significant articles, news items, and editorials from English language military and aeronautical periodicals. The index contains citations since 1988 and is updated continuously.

 [Go to Air University Library's Index to Military Periodicals](#)

Aluminium Industry Abstracts

Provides coverage of the world's technical literature on aluminum, ranging from ore processing through applications. The Aluminium Industry Abstracts database includes information abstracted from approximately 2,300 scientific and technical journals, government reports, conference proceedings, dissertations, books, and patents. All aspects of the aluminum industry, aside from mining, are covered.

 [Go to Aluminium Industry Abstracts](#)

America: History and Life

Search for articles on all aspects of the history of the United States and Canada from prehistory to the present. Articles from national, state and local historical journals are covered, as well as historical articles in major humanities and social science journals. Also includes citations to reviews, books, and dissertations. ##Keywords: African-American, Afro-American, Black, Hispanic, Latino, Colonial, Pennsylvania, Native Americans, women, gender, revolution, revolutionary war, civil war, Vietnam War, Cold War, World War I, World War II, Immigration, Immigrants, labor, agriculture, culture, society, politics, religion, economic, military, historiography.

 [Go to America: History and Life](#)

American Broad­sides and Ephemera

Based on the American Antiquarian Society's collection this database offers fully searchable facsimile images of approximately 15,000 broadsides printed between 1820 and 1900, and 15,000 pieces of ephemera printed between 1760 and 1900. Broad­sides range from contemporary accounts of the Civil War, unusual occurrences and natural disasters to official government proclamations, tax bills and town meeting reports. Ephemera include early trade cards, theater playbills, stock certificates, menus and invitations, popular songs and music, and poetry. American Broad­sides and Ephemera can be searched as a single collection, or combined with other resources in the Archive of Americana.

American Drama

Containing more than 1,500 dramatic works from the early eighteenth century up to the beginning of the twentieth, American Drama 1714-1915 reflects American dramatic writing in all its richness and diversity: plays in verse, farces, melodramas, minstrel shows, realist plays, frontier plays, temperance dialogues and a range of other genres are represented. Major dramatists include David Belasco, Rachel Crothers, Augustin Daly, Clyde Fitch, Edward Harrigan, James Herne, William Dean Howells and Joaquin Miller.

 [Go to American Drama](#)

American Film Institute Catalog

The online American Film Institute (AFI) Catalog draws its content from six printed volumes that document every American film from 1893 to 1970, currently excluding 1951-1960, which are currently in production. Search records by keywords; film titles; cast, crew, and character names; subject; genre; release year and more. Most records include extensive plot summaries.

 [Go to American Film Institute Catalog](#)

American Mathematical Society Journals

The AMS is devoted to publishing research mathematics of high quality and significance in all areas of pure and applied mathematics. For journals that appear in dual electronic and print formats, articles are posted individually on the Web soon after proof is returned from authors and before appearing in issues for the print product. The AMS also publishes refereed electronic-only journals that receive the same timely posting that dual-format journals receive. Items in article bibliographies are linked to their reviews on MathSciNet when available.

 [Go to American Mathematical Society Journals](#)

American Medical Association Journals (including JAMA)

The American Medical Association JAMA & Archives Journals Web site includes the full text of all journals from January 1998 forward, abstracts from 1975 forward, and tables of contents from as early as 1962 forward.

 [Go to American Medical Association Journals \(including JAMA\)](#)

American National Biography Online

The American National Biography Online offers portraits of more than 17,000 men and women -- from all eras and walks of life -- whose lives have shaped the nation. The online version reproduces the full-text of the original 24 volume set published in 1999, with new and updated entries added regularly. The online edition features thousands of illustrations, hyperlinked cross-references, links to select web sites, and powerful search capabilities.

 [Go to American National Biography Online](#)

American Periodicals Series, 1740-1900

Search a selection of periodicals that first began publishing between 1740 and 1900, including special interest and general magazines, literary and professional journals, children's and women's magazines, and many other historically-significant periodicals. Contains full-text of American magazines and journals that originated between 1741 and 1900. Digitized page images reproduce the publications as they appeared when originally published.

 [Go to American Periodicals Series, 1740-1900](#)

American Poetry

Over 40,000 poems by more than 200 American poets from the Colonial Period to the early twentieth century.

 [Go to American Poetry](#)

America's Historical Newspapers (1690-1922)

Readex's Early American Newspapers (1690-1922) is a unique, webbased archive of Americana that provides a fascinating glimpse into our nation's past. The Early American Newspaper Collection will feature the images and full-text content from scores of historical publications, perfectly complementing the Early American Imprints series. Based on Clarence Brigham's History and Bibliography of American Newspapers, 1690-1820, this digital collection concentrates primarily on those papers that began publication before 1820. The core of the Readex collection is formed by Isaiah Thomas' own collection of colonial and early national period newspapers and supplemented by nearly two million issues added by Thomas' successors at the American Antiquarian Society. Numerous other institutions and historical societies have contributed to the collection including: the Boston Athenaeum, the Connecticut Historical Society, the Connecticut State Library, the Library Company of Philadelphia, the Library of Congress, the libraries of universities such as Brown and Harvard, and private collections. This joint effort led to the creation of a historical archive of momentous breadth and depth. Page images are formatted to allow for easy viewing, magnification, printing and saving.

 [Go to America's Historical Newspapers \(1690-1922\)](#)

America's News Magazines

America's News Magazines (NewsBank) provides full-text articles from leading magazines that provide coverage and analysis of current events in a range of categories including: news, business, entertainment, lifestyle, science and technology, and sports. One easy-to-search interface is used for all titles. Paid advertisements are excluded.

 [Go to America's News Magazines](#)

America's Newspapers

Complete full-text content of many Knight-Ridder and other newspapers. This includes a wide range of local and regional newspapers, including the Centre Daily Times. Use this database to locate newspaper articles related to community events, schools, politics, government policies, cultural activities, local companies, state industries, and people in the community. Paid advertisements are excluded.

 [Go to America's Newspapers](#)

AMS Journals

Search the journals of the American Meteorological Society (AMS).

 [Go to AMS Journals](#)

Année philologique

L'Année Philologique is an exhaustive index of periodicals, books and essays in classics and classical studies. It covers Greek and Latin linguistics and literature and Greek and Roman archaeology, history, mythology, religion, epigraphy, numismatics and palaeography. The database indexes over 1,500 journals from 1969 to the present.

 [Go to Année philologique](#)

Annual Reviews

Since 1932, Annual Reviews has offered comprehensive, timely collections of critical reviews written by leading scientists. Annual Reviews volumes are published each year for 29 focused disciplines within the Biomedical, Physical, and Social Sciences.

 [Go to Annual Reviews](#)

Anthropology Plus

Anthropology Plus is the world's most comprehensive, focused index of bibliographic materials from the late 1800s to today in the fields of social, cultural, physical, biological, and linguistic anthropology; ethnology, archaeology, folklore, and material culture; and interdisciplinary studies. Beyond these disciplines, researchers and scholars in art history, demography, economics, genetics, geography, geology, history, psychology, religion, or sociology will all find relevant anthropological material. ##Anthropology Plus unites two premier indexes created in two hemispheres. The result is extensive, worldwide coverage of core journals plus local and lesser-known journals. Together, Harvard University's highly respected Anthropological Literature database and the United Kingdom's Anthropological Index (Royal Anthropological Institute) provide a uniquely broad and rich resource for education and research in anthropology and related fields

 [Go to Anthropology Plus](#)

AnthroSource

AnthroSource is a fully integrated information resource. ##Its powerful search engine makes precision research quick and easy. ##AnthroSource is more than a content collection. It is an evolving, interactive repository of research and communications tools designed to bring the most credible and relevant of anthropological scholarship together in one place and to support a strong community of scholars, teachers, and students in the field.

 [Go to AnthroSource](#)

Aquatic Sciences and Fisheries Abstracts (ASFA)

The Aquatic Sciences Collection provides comprehensive information on the science and technology of marine, freshwater, and brackish water organisms and environments from 1971 to the present. It monitors over 5,000 international serial publications, books, reports, conference proceedings, translations and limited distribution literature. The collection contains five files which can be searched individually: ##(1) Biological Sciences and Living Resources (1971 to date) ##(2) Ocean Technology, Policy & Non-Living Resources (1971 to date) ##(3) Aquatic pollution & Environmental Quality (1990 to date) ##(4) Marine Biotechnology Abstracts (1989 to date) ##(5) Aquaculture Abstracts (1984 to date) ##Coverage: 1971 to current. Updates: Monthly

 [Go to Aquatic Sciences and Fisheries Abstracts \(ASFA\)](#)

Archive of Americana

A family of primary source historical collections covering nearly three centuries of American History. The resources can be searched together or separately. Currently includes: American Broadside and Ephemera, Series I Broadside printed between 1820 and 1900 and ephemera printed between 1760 and 1900. Early American Imprints, Series I: Evans, 1639-1800 Books, pamphlets, broadsides and other imprints from the distinguished bibliography created by Charles Evans. Early American Imprints, Series II: Shaw-Shoemaker, 1801-1819 Bbooks, pamphlets, broadsides and other imprints listed in the distinguished bibliography by Ralph R. Shaw and Richard H. Shoemaker. America's Historical Newspapers Early American newspapers published between 1690 and 1922, including titles from all 50 present states.

 [Go to Archive of Americana](#)

ArchiveGrid

An index produced by the Research Libraries Group to finding aids and other descriptive information about the holdings of manuscript and archival collections in libraries and research institutions throughout the world

 [Go to ArchiveGrid](#)

Archives and Manuscripts - Guides to Archival Collections at Penn State

Annotated alphabetical list of EAD (Encoded Archival Description) finding guides to some of the archival and manuscript collections in the Special Collections Library, The Pennsylvania State University.

 [Go to Archives and Manuscripts - Guides to Archival Collections at Penn State](#)

Archives USA (manuscript collections)

This resource provides access to an integrated database of three major information resources (NUCMC--National Union Catalog of Manuscript Collections, NIDS--National Inventory of Documentary Resources in the United States, and DAMRUS--Directory of Archives and Manuscript Repositories in the United States). ArchivesUSA gives access to holdings and contact information of more than 4,400 repositories, and indexes to nearly 100,000 special collections. ##Coverage: Current edition. Updates: Continuous.

 [Go to Archives USA \(manuscript collections\)](#)

Armed Conflict Database

Covers international and internal conflicts, as well as terrorism. It provides an interactive source of information on 70 armed conflicts including terrorism, refugees, and returnees, Internally Displaced Persons (IDPs), weapons used and their flows, fatalities, costs (\$US), historical backgrounds, annual updates and timelines. Users can generate reports and download data as well as browse through year-by-year analyses and fact sheets online.

 [Go to Armed Conflict Database](#)

Art Abstracts

Indexing of 260 international art publications, including English-language periodicals, yearbooks, and museum bulletins, as well as periodicals published in French, Italian, German, Spanish, Japanese, Dutch, and Swedish.

 [Go to Art Abstracts](#)

Art and Archaeology Technical Abstracts

AATA Online is a comprehensive database of more than 100,000 abstracts of literature related to the preservation and conservation of material cultural heritage.

 [Go to Art and Archaeology Technical Abstracts](#)

Art Index Retrospective (1929-1984)

Indexing of 260 international art publications, including English-language periodicals, yearbooks, and museum bulletins, as well as periodicals published in French, Italian, German, Spanish, Japanese, Dutch, and Swedish.

 [Go to Art Index Retrospective \(1929-1984\)](#)

ARTbibliographies Modern

ARTbibliographies Modern (ABM) provides full abstracts of journal articles, books, essays, exhibition catalogs, PhD dissertations, and exhibition reviews on all forms of modern and contemporary art, with approximately 12-13,000 new entries being added each year. Entries date back as far as the late 1960s. ##ABM is the premier source of information on modern and contemporary arts dating from the late 19th century onwards, and including photography since its invention. It includes abstracts of English and foreign-language material on famous and lesser-known artists, movements, and trends. The coverage of ABM is wide-ranging and includes performance art and installation works, video art, computer and electronic art, body art, graffiti, artists' books, theatre arts, conservation, crafts, ceramic and glass art, ethnic arts, graphic and museum design, fashion, and calligraphy, as well as traditional media including illustration, painting, printmaking, sculpture, and drawing. ##ABM is used by students and researchers around the world to pinpoint publications and writings relevant to their area of study. Its extensive classification system and comprehensive abstracts make it an ideal source for information on artists, art movements, art history and theory, design, photography, and crafts.

 [Go to ARTbibliographies Modern](#)

ARTFL (French literature)

Full text database ranging from classic works in French literature to nonfiction prose and technical writings. ##Mostly 18th-20th century texts.

##Coverage: about 2000 texts in the French language.

 [Go to ARTFL \(French literature\)](#)

Arts & Humanities Citation Index

Arts & Humanities Citation Index is a multidisciplinary index covering the journal literature of the arts and humanities.

 [Go to Arts & Humanities Citation Index](#)

ARTstor

ARTstor is a database of digital images of works of art and of artifacts of visual culture, intended to support teaching, research and learning in visual culture and related fields. The database contains hundreds of thousands of good-quality images and is growing rapidly. It is comprised of six major collections that may be searched separately or simultaneously:  The Image Gallery: a broad collection intended to support courses in art and architectural history.  The Carnegie Arts and the United States Collection: a collection intended to support teaching of American art and architectural history.  The Museum of Modern Art Architecture and Design Collection: drawings, models, photographs, graphic design materials, and three-dimensional objects documenting 20th-century design.  The Illustrated Bartsch: Old Master European prints from the 15th to the early 19th Centuries.  The Mellon International Dunhuang Archive (MIDA): mural paintings and related art and texts associated with the several hundred Buddhist cave shrines in Dunhuang, China.

 [Go to ARTstor](#)

ASABE Technical Library (formerly ASAE)

All of the recent technical documents published by the American Society of Agricultural Engineers including full text access to journals, standards, technical reports, conference proceedings, and monographs.

 [Go to ASABE Technical Library \(formerly ASAE\)](#)

ASCE Online Journals (civil engineering)

These are the online versions of the journals published by the American Society of Civil Engineers.

 [Go to ASCE Online Journals \(civil engineering\)](#)

ASM Handbooks Online

This resource features extensive engineering and property data for materials of all types. It contains the fulltext of several ASM handbooks including the Metals Handbook and the Engineered Materials Handbook.

 [Go to ASM Handbooks Online](#)

ASME Online Journals (mechanical engineering)

Full text access to the American Society of Mechanical Engineers online journals.

 [Go to ASME Online Journals \(mechanical engineering\)](#)

Association of Religion Data Archives (ARDA)

The Association of Religion Data Archives (ARDA) strives to democratize access to the best data on religion. The targeted audience and the data collection have both greatly expanded since 1998, now including American and international collections and developing features for educators, journalists, religious congregations, and researchers.

 [Go to Association of Religion Data Archives \(ARDA\)](#)

Associations Unlimited

This reference database has information and locations on nearly 144,000 nonprofit membership organizations worldwide: International and U.S. National, Regional, State, and Local. It covers everything from local Chambers of Commerce to the American Medical Association, and beyond. ##Note: In January 1998, the name was changed from Encyclopedia of Associations to Associations Unlimited. ##Current edition. Updates: Continuous.

 [Go to Associations Unlimited](#)

ASTM Standards

This database provides access to the full text versions of all current ASTM standards. ASTM is the American Society for Testing and Materials.

 [Go to ASTM Standards](#)

ATLA Religion Database with ATLASerials

ATLA Religion Database with ATLASerials combines the premier index to journal articles, book reviews, and collections of essays in all fields of religion with ATLA's online collection of major religion and theology journals. The ATLA Religion Database includes more than 488,000 article citations from more than 1,500 journals (506 currently indexed), more than 215,000 essay citations from over 15,700 multi-author works, and more than 446,000 book review citations. This database begins in 1949 although indexing for some journal titles extends back into the nineteenth century. This database is produced by the American Theological Library Association.

 [Go to ATLA Religion Database with ATLASerials](#)

Avery Index to Architectural Periodicals

Contains descriptions of articles on the history and practice of architecture, landscape architecture, city planning, historic preservation, furniture, and interior design and decoration in more than 700 international magazines. Most indexing began with 1934, but some titles are indexed to dates as early as 1741. Updated weekly.

 [Go to Avery Index to Architectural Periodicals](#)

Bartleby

Literature and reference books on the web.

 [Go to Bartleby](#)

Bartlett Quotations

Including over 11,000 quotations, the first new edition of John Bartlett's corpus to be published after his death in 1905 keeps most of his original work intact.

 [Go to Bartlett Quotations](#)

Behrend Beacon

This digital content of the student newspaper of Penn State Erie, the Behrend College, contains the issues from 1948 through 1989. Through the 41 years, the paper has been through many title changes, including Behrend Collegian, Penn State Behrend Collegian, Collegian, The Behrend College Collegian, and currently The Behrend Beacon.

 [Go to Behrend Beacon](#)

Beilstein/Gmelin

Beilstein and Gmelin are handbooks that cover organic chemistry and inorganic/organometallic chemistry respectively back to the late 1700s. They are searchable by property values or by chemical structures using CrossFire software. You must install the software on your workstation in order to access the databases. To obtain the information needed to download the software, please contact njb2@psu.edu and request it. Please use your PSU e-mail account. The contact information will not be sent to a non-PSU e-mail account.

 [Go to Beilstein/Gmelin](#)

Bible in English

The Bible in English contains twenty versions of the Bible, from Old English, through the Middle Ages and Renaissance, and into the twentieth century. In addition to the twelve complete Bibles, there are five New Testament works, two Gospel works and William Tyndale's New Testament, Pentateuch and Jonah translations.

 [Go to Bible in English](#)

Bibliography of Asian Studies

The on-line version of the Bibliography of Asian Studies (BAS) contains records on all subjects (especially in the humanities and the social sciences) pertaining to East, Southeast, and South Asia published worldwide.

 [Go to Bibliography of Asian Studies](#)

Bibliography of the History of Art

Indexing for articles and some books on European and American visual arts from late antiquity to the present. In addition to coverage of 1400 periodicals, selected books, conference proceedings, essays, exhibition catalogues, and some art dealer's catalogues, doctoral dissertations, and microform publications are indexed. Indexing begins with 1973 and is updated 4 times each year.

 [Go to Bibliography of the History of Art](#)

Biography and Genealogy Master Index (BGMI)

An index (not full text resource) to biographical information about influential people worldwide, both living and historical. Lists the contents of readily available current reference books as well as major reference works from the past. It currently has over 10 million references, with about 450,000 new ones added annually. See the Gale Web site for additional information and copyright statement. ##Coverage: Current edition. Updates: Continuous.

 [Go to Biography and Genealogy Master Index \(BGMI\)](#)

Biological Abstracts

Biological Abstracts is the premier database for the biological sciences. BA monitors more than 5,000 international journals to ensure that virtually every life science topic is covered, including agriculture, biochemistry, biology, botany, molecular biology, biotechnology, physiology, microbiology, neurology, pharmacology, public health, toxicology, zoology, and ecology and the environment. ##Coverage is from 1926 to date.

 [Go to Biological Abstracts](#)

BioOne

BioOne is a unique aggregation of high-impact bioscience research journals.

 [Go to BioOne](#)

Black Drama

Includes full texts of plays written from the mid-1800s to the present by more than 100 playwrights from North America, English-speaking Africa, the Caribbean, and other African diaspora countries. The plays are fully searchable and extensively indexed.

 [Go to Black Drama](#)

Blackwell Synergy

Blackwell Synergy is the online journal service from Blackwell Publishing. Synergy was launched in 1999 and has become the state-of-the-art online journals service preferred by both librarians and readers for its simplicity, ease-of-use and special functionality.

 [Go to Blackwell Synergy](#)

BNA Criminal Law Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Criminal Law Reporter provide in-depth news and analysis of criminal law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Criminal Law Reporter](#)

BNA Environment Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Environment Reporter provides in-depth news and analysis of environmental law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Environment Reporter](#)

BNA Family Law Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Family Law Reporter provide in-depth news and analysis of family law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Family Law Reporter](#)

BNA Health Law Reporter

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Health Law Reporter provides in-depth news and analysis of health law along with applicable statutes and court cases. Updated weekly

 [Go to BNA Health Law Reporter](#)

BNA Labor and Employment Library

Selected BNA databases are now available to all Penn State students, faculty, and staff. The BNA Labor and Employment Library provides in-depth news and analysis of labor law along with applicable statutes and court cases. Updated weekly.

 [Go to BNA Labor and Employment Library](#)

BNA Law Resources

A collection of more than 200 law related news, analysis, and reference products, providing intensive coverage of legal and regulatory developments and case law covering a wide range of topics including Antitrust, Banking, Bankruptcy, Corporate, Criminal Law, Employee Benefits, Employment and Labor, Environment and Safety, Ethics, Family Law, Health Care, Homeland Security, Intellectual Property,

 [Go to BNA Law Resources](#)

Book Review Index (Gale)

Provides quick access to reviews of books and other media appearing in more than 600 publications. Includes reviews published from 1965 to present. To locate the text of a review select the "Penn State Search" link.

 [Go to Book Review Index \(Gale\)](#)

BookSource: Nonfiction

Fiction readers can find the perfect novel with this reader's advisory service.

 [Go to BookSource: Nonfiction](#)

British Newspapers, 1600-1900

Consists of two major newspaper collection collections from the British Library which span three hundred years of newspaper publishing in the U.K. Includes the 17th and 18th Century Burney Collection Newspapers and 19th Century Newspapers. The two collections combined contain nearly 3 million pages and 40 million articles.

 [Go to British Newspapers, 1600-1900](#)

British Periodicals

Full texts of hundreds of journals from the late seventeenth to the early twentieth centuries. Includes some of the major magazines as well as specialized titles in literature, philosophy, history, science, the fine arts and the social sciences.

 [Go to British Periodicals](#)

Brown University Women Writers Project

The Brown University Women Writers Project is a long-term research project devoted to early modern women's writing and electronic text encoding. Our goal is to bring texts by pre-Victorian women writers (pre 1830 in England) out of the archive and make them accessible to a wide audience of teachers, students, scholars, and the general reader. We support research on women's writing, text encoding, and the role of electronic texts in teaching and scholarship.

 [Go to Brown University Women Writers Project](#)

Burney Collection 17th-18th Century Newspapers

The newspapers, pamphlets, and books gathered by the Reverend Charles Burney (1757-1817) represent the largest and most comprehensive collection of early English news media. The present digital collection, totals almost 1 million pages and over 1,000 titles from London, the British Isles, and the colonies.

 [Go to Burney Collection 17th-18th Century Newspapers](#)

Business Cycle Indicators - U.S. Indicators

The Business Cycle Indicators - U.S. Indicators database provides economic indicators that have proven to be most useful in determining current conditions and predicting the future direction of the United States economy. A common spreadsheet-type format is used, allowing the BCI series to be easily imported into numerous software programs (including EXCEL, LOTUS-123, FREELANCE, EVIEWS, TSP, and SAS). More than 250 economic series are in the U.S. BCI dataset, with many series beginning in 1945.

 [Go to Business Cycle Indicators - U.S. Indicators](#)

CAB Abstracts (agriculture, nutrition and global health)

CAB DIRECT contains 4 sections, CAB Abstracts, CAB Abstracts Archive, Global Health and Global Health Archive with over 7.5 million records. CAB contains many records from research conducted worldwide. CAB Abstracts (1973 - Current) and CAB Abstracts Archive (1910-1973) cover all areas of agriculture including animal production, breeding, nutrition and welfare (equine, dairy, cattle, poultry), dairy science, horticulture, (fruits, nuts, vegetables ornamentals, flowers) crop science (field crops, grains, forages) and plant breeding and pathology. Also included are applied economics and rural sociology, agricultural engineering, soils and fertilizers, entomology, medical and veterinary mycology, aquaculture and veterinary medicine, human nutrition, forestry, forest products, and the management and conservation of natural resources, leisure and tourism, parasitology, and nematology. Global Health (1973-current) and Global Health Archive (1910-1983) covers international and public health, and is derived from over 3500 journals, plus reports, books and conferences, with over 1.1 million scientific records. Publications from over 125 countries in 50 languages are abstracted, and all relevant non-English language papers are translated to give access to research not available through any other database. Subjects included are bacterial, viral and prion diseases, mycology, parasitology, disease vectors, zoonotic diseases, nutrition and food safety, medicinal plants, toxicology and public and rural health.

 [Go to CAB Abstracts \(agriculture, nutrition and global health\)](#)

Cabell's Directory (Business; Education; Psychology)

Cabell's Directories helps identify journals that are most likely to publish a manuscript, by giving the topic areas emphasized, the type of review process, number of external reviewers, acceptance rate, time required for review, availability of reviewers' comments, and if fees charged to review or publish the manuscript. Directories are available for Accounting; Economics and Finance; Management; Marketing; Educational Curriculum and Methods; Educational Psychology and Administration; and Psychology.

 [Go to Cabell's Directory \(Business; Education; Psychology\)](#)

Cambridge University Press Journals

Access to electronic editions of journals to which the Penn State University Libraries subscribe. Cambridge University Press is the publisher.

 [Go to Cambridge University Press Journals](#)

Canadian Poetry

Created in partnership with the Electronic Text Centre at the University of New Brunswick Libraries, this unique collection contains the full text of more than 19,000 poems by 177 poets including Bliss Carman, Isabella Valancy Crawford, Archibald Lampman, Charles G. D. Roberts and Duncan Campbell Scott, offering a comprehensive survey of Canadian poetry from the eighteenth century to the early twentieth.

 [Go to Canadian Poetry](#)

Capitolwire.com

Capitolwire.com provides current news related to policy and government in the state of Pennsylvania. Besides information on key issues it also provides: online Calendar of Record for public affairs in the capitol and around the state; briefing on the day's political and economic headlines; access to many of the latest memos, press releases, speeches, position papers, legislative committee testimony and correspondence to and from executive agencies, lawmakers, lobbyists and interest groups; and various tools to follow changes in regulation and legislation.

 [Go to Capitolwire.com](#)

Catalog of U.S. Government Publications

The Catalog of U.S. Government Publications (CGP) is the finding tool for electronic and print publications from the legislative, executive, and judicial branches of the U.S. government. These publications make up the National Bibliography of U.S. Government Publications. The

CGP contains descriptive records for historical and current publications and provides direct links to those that are available online. The CGP is the online counterpart of the Monthly Catalog of United States Government Publications, which dates from the passage of the Printing Act of 1895. At present the Monthly Catalog should be consulted for pre-1976 indexing. The Monthly Catalog and many of the publications indexed in it were distributed through the Federal Depository Library Program.

 [Go to Catalog of U.S. Government Publications](#)

Catholic Periodical & Literature Index

The Catholic Periodical and Literature Index (CPLI) Online is the product of a partnership between ATLA and the Catholic Library Association. The database covers all aspects of the Catholic faith and lifestyle, and includes over 380,000 index citations of articles and reviews published in Roman Catholic periodicals, Papal documents, church promulgations, and books about the Catholic faith that are authored by Catholics and/or produced by Catholic publishers.

 [Go to Catholic Periodical & Literature Index](#)

CCH Business and Finance Network

CCH Business and Finance Network provides primary research materials on mergers and acquisitions, product liability and safety, corporate governance, banking, international business, securities, intellectual property, and antitrust and trade regulation. Full text materials include statutes, judicial opinions, regulations, newsletters, foreign laws and rules, and forms.

 [Go to CCH Business and Finance Network](#)

CCH Health and Human Resources Network

CCH Health and Human Resources Network provides federal and state research materials on topics such as labor and employment, pensions, benefits, health care compliance and reimbursement, and safety compliance. Full-text materials include statutes, regulations, agency directives and letters, judicial opinions, and forms.

 [Go to CCH Health and Human Resources Network](#)

CCH Tax Research Network

Comprehensive tax service providing federal, state, and international tax research source materials, including full-text statutes, regulations, administrative and judicial opinions, commentary, and citations.

 [Go to CCH Tax Research Network](#)

CE Database (ASCE)

The Civil Engineering Database (CEDB) is designed to provide easy bibliographic access to all ASCE publications. The database covers ASCE documents published since 1970. It provides access to all the journals, conference proceedings, books, standards, manuals, magazines, and newspapers.

 [Go to CE Database \(ASCE\)](#)

CenStats

CenStats is a Web-based subscription service that provides interactive search-and-display access to the following databases: Annual Survey of Manufactures, Building Permit Data, Census Tract Street Locator, Consolidated Federal Funds Report, County Business Patterns, International Trade Data, Occupation by Race and Sex, USA Counties, Zip Business Patterns. Note: This database is available to all users; it is not restricted to Penn State users only.

 [Go to CenStats](#)

Center for Research Libraries Catalog

The Center for Research Libraries (CRL) is a consortium of North American universities, colleges, and independent research libraries. The consortium acquires and preserves newspapers, journals, documents, archives, and other traditional and digital resources for research and teaching and makes them available to member institutions through interlibrary loan and electronic delivery.

 [Go to Center for Research Libraries Catalog](#)

Centre Daily Times (1996 - present)

The Centre Daily Times, four years straight winner of the top newspaper in its circulation category, is committed to providing the best local news coverage in the area. The Daily Times covers many businesses headquartered in the region such as AccuWeather, Rathenon, Uni-Marts Inc. and Corning Asahi. Particular emphasis is placed on Penn State University as a result of its proximity. Coverage: 9/28/1995 - present

 [Go to Centre Daily Times \(1996 - present\)](#)

Centre Daily Times Index 1981-2002

This selective database, created at Penn State, primarily indexes local news articles. National and state news items are not indexed unless they are relevant to local persons, places or events. The Sports section is not indexed unless an article relates to another larger issue such as Title IX, gender equity, medicine, etc. Friday's Weekender section is not indexed either. The following topics are indexed: Local news articles, Selected Editorials, Theater, Music, Visual arts, Book reviews, Obituaries (beginning in 1990). Coverage: 1981-2002.

 [Go to Centre Daily Times Index 1981-2002](#)

Ceramic Abstracts

This is a database for the ceramics industry, providing international coverage on the manufacture, processing, applications, properties and testing of traditional and advanced ceramics. Source materials include over 300 journals, conference proceedings, books, patents, standards and company product literature. Coverage: 1975-date

 [Go to Ceramic Abstracts](#)

CHANT (Chinese Ancient Texts)

Chinese Ancient Text (CHANT) is a comprehensive full-text database of ancient Chinese texts. The database contains five components: pre-220 AD (the Pre-Han and Han period) traditional texts; 220-581 AD (the Wei-Jin period) traditional texts; excavated texts on wood/bamboo strips and silk (Jianbo); excavated oracular inscriptions on tortoise shells and bones (Jiaguwen); traditional as well as excavated bronze inscriptions (Jinwen).

 [Go to CHANT \(Chinese Ancient Texts\)](#)

Chemical Abstracts

Chemical Abstracts is available online through SciFinder Scholar. It is a bibliographic database that covers the literature of chemistry from 1907 to present. Chemical Abstracts is one of the databases available through SciFinder Scholar. To access Chemical Abstracts you must download the SciFinder Scholar client software to your workstation.

 [Go to Chemical Abstracts](#)

CHEMnetBASE (chemistry, physics, polymers)

A collection of dictionaries and handbooks providing information on chemical compounds, polymers, and physics data.

Community of Science

The Community of Science (COS) home page, a venture funded by Johns Hopkins University, contains multiple resources which members of Penn State can access. Databases we have access to are: **##GeoRef** **##U.S. Patents** **##Scientific Journals** **##Federally Funded Research in the U.S.** (the full grants database of the NIH, NSF, USDA, SBIR, and Advanced Technology Program) **##The** are additional choices on the COS home page which, are not available to Penn State users. They are: **##MEDLINE**, Compendex, Federal Register and Commerce Business Daily. **##However**, you can access MEDLINE and Compendex from the LIAS Fast Track.

 [Go to Community of Science](#)

Compendex (Ei Village 2)

Compendex is the most comprehensive interdisciplinary engineering database in the world with over 9 million records referencing 5,000 engineering journals and conference materials dating from 1884.

 [Go to Compendex \(Ei Village 2\)](#)

Conference Board's Research Online Collection

Full-text research reports (from 1998 on) on recent issues in business and economics. Subscription also includes access to "Straight Talk" (brief analyses of economic issues), "Across the Board" (the Board's magazine), the "Executive Action Series" (brief reports addressing topics of interest to senior executives), and the Board's economic working papers.

 [Go to Conference Board's Research Online Collection](#)

Conference Papers Index

Conference Papers provides citations to papers and poster sessions presented at major scientific meetings around the world. Subject emphasis since 1995 has been in the life sciences, environmental sciences and the aquatic sciences, while older material also covers physics, engineering and materials science. Information is derived from final programs, abstracts booklets and published proceedings, as well as from questionnaire responses. Records include complete ordering information to obtain preprints, abstracts, proceedings and other publications derived from the conference, together with title and author information needed to track the specific papers.

 [Go to Conference Papers Index](#)

Congressional Research Service Reports (LexisNexis)

Research papers written by the Library of Congress for the use of Congress. Provide objective, non-partisan analysis of public policy issues before the legislature. Full text PDF of reports.

 [Go to Congressional Research Service Reports \(LexisNexis\)](#)

Constitutions of the Countries of the World Online

 [Go to Constitutions of the Countries of the World Online](#)

Consumer Health (Medline Plus)

MedlinePlus brings together authoritative information on over 700 diseases and conditions from the National Library of Medicine, the National Institutes of Health (NIH), and other government agencies and health-related organizations. There are also lists of hospitals and physicians, an illustrated medical encyclopedia, a medical dictionary, interactive patient tutorials, health information in Spanish, extensive information on prescription and nonprescription drugs, health information from the media, and links to thousands of clinical trials. Pre-formulated MEDLINE searches are included in MedlinePlus and give easy access to medical journal articles. MedlinePlus is updated daily. This resource is designed for educational use only and not intended to replace advice from a health professional. Learn more about MedlinePlus at <http://www.nlm.nih.gov/pubs/factsheets/medlineplus.htm>

 [Go to Consumer Health \(Medline Plus\)](#)

Contemporary Authors

Provides brief biographical information and lists of publications by and about over 90,000 current authors of fiction, nonfiction, poetry, journalism, drama, media, etc., active in the U. S. and internationally. **##Coverage:** Current edition. **Updates:** Continuous.

 [Go to Contemporary Authors](#)

Contemporary Women's Issues

This database provides access to full text sources covering global information on women. The sources include periodicals, newsletters, reports, fact sheets, and pamphlets. Topics covered range from human rights to health and reproductive issues to legal information. **##Coverage:** 1992 to date. Includes nearly 1500 titles. **Updates:** Weekly

 [Go to Contemporary Women's Issues](#)

Copper Data Center

The Copper Data Center Database (CDC) provides an online bibliographic database of the world's literature on copper, copper alloys and copper technology since 1965. The Copper Data Center Database covers copper technology from smelting and hydrometallurgy through the performance of copper and copper alloys in their end-use applications and service environments. It references data on the properties and performance of copper and copper alloys and on applications of the copper metals. Over 52,000 documents have been indexed into this database, including 5582 documents published between 1863 and 1964.

 [Go to Copper Data Center](#)

Corpus of Middle English Prose and Verse

This is a collection of Middle English texts assembled from works contributed by University of Michigan faculty and from the Oxford Text Archive.

 [Go to Corpus of Middle English Prose and Verse](#)

Corrosion Abstracts

Corrosion Abstracts provides the world's most complete source of bibliographic information in the area of corrosion science and engineering. International sources of literature are scanned and abstracted in the areas of general corrosion, testing, corrosion characteristics, preventive measures, materials construction and performance, and equipment for many industries.

 [Go to Corrosion Abstracts](#)

CQ Almanac

Summarizes all major legislative actions taken by congress each year. 1945-to date.

 [Go to CQ Almanac](#)

CQ Congress Collection

CQ Congress Collection is a dynamic research and reference tool allowing historical analysis of members of Congress, their legislative voting behavior, interest groups, and their interactions in crafting public policy.

 [Go to CQ Congress Collection](#)

CQ Electronic Library

A reference source for research in American government, politics, history, public policy, and current affairs. The suite includes the online version of --CQ Weekly --CQ Researcher --CQ Congress Collection, --CQ Voting and Elections Collection --CQ Historic Documents Online

 [Go to CQ Electronic Library](#)

CQ Global Researcher

Similar to CQ Researcher, CQ Global Researcher provides students with definitive, in-depth coverage of global affairs from a number of international viewpoints.

 [Go to CQ Global Researcher](#)

CQ Historic Documents Series Online

Historic Documents Series Online Edition collects more than 2,500 primary sources covering current events around the world from 1972 to present. Each source document is preceded by an introductory essay giving context to the source. Users can search by keyword, or browse by topic or date. Topics range from presidential speeches to statements by sports figures such as Magic Johnson on his retirement from the NBA.

 [Go to CQ Historic Documents Series Online](#)

CQ Researcher Online

The CQ Researcher is a collection of reports covering political and social issues, with regular reports on topics in health, international affairs, education, the environment, technology and the U.S. economy. ##Keywords: hot topics, current events, social issues, social trends, archive, English 15, CAS 100, background information, general interest, contemporary issues, overviews

 [Go to CQ Researcher Online](#)

CQ Supreme Court Collection

CQ Supreme Court Collection contains summaries and analysis of more than four thousand major decisions, historical and contemporary, including all cases in which the Burger and Rehnquist Courts (October 1969 to the present) issued a written opinion. Includes links to the full text of the cases. The collection can be searched by topic, justice, and case name. Includes tools to research justices' voting records and opinion alignments.

 [Go to CQ Supreme Court Collection](#)

CQ Voting & Elections Collection

Expert analysis, demographics, and data of elections-related information.

 [Go to CQ Voting & Elections Collection](#)

CQ Weekly

Each issue of CQ Weekly contains an unbiased, objective and comprehensive roundup of virtually all Capitol Hill activity from the previous week.

 [Go to CQ Weekly](#)

Criminal Justice Abstracts

Provides abstracts of articles from the major journals in criminology and related disciplines, as well as books and reports from government and nongovernmental agencies. For each document, an informative summary of the findings, methodology, and conclusions is provided. Topics include crime trends, prevention projects, corrections, juvenile delinquency, police, courts, offenders, victims, and sentencing

 [Go to Criminal Justice Abstracts](#)

Criminal Justice: National Criminal Justice Reference Service (NCJRS)

The National Criminal Justice Reference Service Abstracts Database contains summaries of more than 150,000 publications on criminal justice, including Federal, state, and local government reports, books, research reports, journal articles, and unpublished research. Subject areas include corrections, courts, drugs and crime, law enforcement, juvenile justice, crime statistics, and victims of crime. ##Coverage: The time period covered is from the early 1970's to the present.

 [Go to Criminal Justice: National Criminal Justice Reference Service \(NCJRS\)](#)

CumInCAD (Computer-Aided Architectural Design)

CumInCAD is a cumulative index of publications about computer aided architectural design. It provides abstracts to thousands of papers in journals and conferences and it provides the full text and illustrations for more than half of the papers. When asked to login, create your own ID and password.

 [Go to CumInCAD \(Computer-Aided Architectural Design\)](#)

Current Index to (mathematical) Statistics

The Current Index to Statistics is a bibliographic index to publications in mathematical statistics and related fields. The CIS Extended Database includes cover-to-cover coverage of 100 "core journals", selected articles from 900 additional related journals, and about 8,000 books since 1974.

 [Go to Current Index to \(mathematical\) Statistics](#)

Daily Collegian (1887-1987) (Digital Archive)

The Daily Collegian and its predecessors, serve as an important source for documenting student life at the Pennsylvania State University. Newspapers, and specifically, student-run newspapers, such as the Daily Collegian, often document university life better than any other source through their pictures, their editorials, and their reports on student activities and interests. The Daily Collegian as we know it today was preceded by: The Free Lance (monthly) - April 1887 to April 1904 The State Collegian (weekly) - September 28, 1904 to June 10, 1911 The Penn State Collegian (weekly) - September 28, 1911 to August 2, 1940 (also had Summer Collegian issues for some dates during this time period). The Historical Digital Collegian provides access to all words, photographs, and advertisements as well as an exact page image of the newspaper page containing the article. For those readers who prefer to see the newspaper intact, each issue can be browsed page-by-page. Thus, the Historical Digital Collegian allows researchers greater flexibility in locating articles of interest and in allowing greater access for those researchers not able to visit The University Libraries.

 [Go to Daily Collegian \(1887-1987\) \(Digital Archive\)](#)

Daily Collegian Index 1992-2002

This selective database, created at Penn State, is an index of news articles pertaining largely to Penn State and, to a lesser extent, the surrounding communities. National and state news items are not indexed unless they relate to persons, places or events associated with either Penn State or its surrounding communities. ##The Sports section is not indexed unless an article relates to a larger issue such as Title IX, gender equity, medicine, etc. Friday's Weekender section is not indexed either. ##The following topics are indexed: ## ##Local news articles ##Selected Editorials ##Theater ##Music ##Visual arts ##Book reviews

 [Go to Daily Collegian Index 1992-2002](#)

Datasets for Research

This web site is primarily intended to function as a guide to the acquisition and use of secondary datasets which are available for research. In addition, it also contains information on sources for locating summary statistics. ##At this time, the resources on this web site pertain primarily to the health, social sciences, maps/ geography disciplines. Other disciplines will be added in the future.

 [Go to Datasets for Research](#)

Declassified Documents Reference System

The Declassified Documents Reference System provides online access to over 500,000 pages of previously classified government documents. Covering major international events from the Cold War to the Vietnam War and beyond, this single source enables users to locate key information underpinning studies in international relations, American studies, United States foreign and domestic policy studies, journalism and more.

 [Go to Declassified Documents Reference System](#)

Dictionary of Literary Biography

This new and growing database covers authors from all genres and time periods. Entries provide a good starting point for students by providing a general essay and biographical information. In addition to the essay there are references to primary and further critical information. All entries are written by scholars and academic specialists.

 [Go to Dictionary of Literary Biography](#)

Dictionary of Old English

Covers the vocabulary of the English language between the years 600-1150 A.D., giving definitions, examples of use, variations in spelling, and references to contemporary texts. The Dictionary is being compiled incrementally; as of 2008, the editors had reached the letter G.

 [Go to Dictionary of Old English](#)

Digital Library of Classic Protestant Texts

The Digital Library of Classic Protestant Texts is an exhaustive resource for historians, theologians, political scientists, and sociologists studying the religious and social upheavals of the 16th and 17th centuries. DLCPT gives researchers immediate, Web-based access to an extensive range of seminal works from the Reformation and post-Reformation eras. With new content uploads occurring on a weekly basis, the database offers a constantly growing treasury of theological writings, biblical commentaries, confessional documents, and polemical treatises written by more than 300 Protestant authors.

 [Go to Digital Library of Classic Protestant Texts](#)

Digital Library of the Catholic Reformation

A uniquely exhaustive resource for historians, theologians, political scientists, and sociologists studying the religious and social upheavals of the 16th and 17th centuries, the Digital Library of the Catholic Reformation gives researchers immediate, Web-based access to an extensive range of seminal works from the Reformation and post-Reformation eras.

 [Go to Digital Library of the Catholic Reformation](#)

Digital National Security Archive

A database with more than 63,000 declassified documents regarding critical U.S. policy decisions. There are 30 complete collections such as the Cuban Missile Crisis, death squads in Guatemala, US relations with Iran and Iraq, Afghanistan, and terrorism policy.

 [Go to Digital National Security Archive](#)

DigiZeitschriften: The German Digital Journal Archive

DigiZeitschriften is a research service giving scholars access the core German research journals. Coverage includes over one hundred full-text international journals in Arts, Economics, Education, Geology, History, Language, Law, Librarianship, Literature, Mathematics, Music, Philology, Religion, Sciences, and Sociology.

 [Go to DigiZeitschriften: The German Digital Journal Archive](#)

Directory of Open Access Journals

Search journal articles at the 'one stop shop for users to Open Access Journals'.

 [Go to Directory of Open Access Journals](#)

Directory of Published Proceedings

Contains material from 280,000+ conferences, congresses, meetings & symposia in the areas of Science/Engineering/Technology Medical / Life Sciences Pollution Control / Ecology Social Sciences / Humanities

 [Go to Directory of Published Proceedings](#)

Dissertations & Theses

With more than 2 million entries, PQD&T, is the single, central, authoritative resource for information about doctoral dissertations and master's theses.

 [Go to Dissertations & Theses](#)

DOE Information Bridge (technical reports)

Includes the full text and bibliographic records of DOE (Department of Energy)-sponsored technical reports published since 1996.

##Coverage: DOE technical reports issued since 1996

 [Go to DOE Information Bridge \(technical reports\)](#)

DYABOLA

DYABOLA contains electronic subject catalogs of publications on the history of art and the ancient world. It includes the subject catalogs of the German Archaeological Institute in Rome, the Bibliography of Iberian Archaeology from the German Archaeological Institute in Madrid, and the Archaeology of Roman Provinces from RGK Frankfurt.

 [Go to DYABOLA](#)

Early American Fiction 1789 - 1875

Early American Fiction 1789-1875 offers the full text of more than 700 first editions of American novels and short stories by such authors as Louisa May Alcott, Herman Melville, Harriet Beecher Stowe and Mark Twain, as well as a host of minor writers of the period.

 [Go to Early American Fiction 1789 - 1875](#)

Early American Imprints, Series I, Evans

Evans Digital Edition (1639-1800) consists of digitized facsimiles of publications produced in the American colonies and the early United States. Derived from entries listed in Charles Evans's American Bibliography, and supplemented from other sources, it includes books, pamphlets, and broadsides on many topics, and is a fundamental resource for early American history, literature, philosophy, and religion.

 [Go to Early American Imprints, Series I, Evans](#)

Early American Imprints Series II, Shaw-Shoemaker, 1801-1819

Early American Imprints, Series II (1801-1819) provides full-text access to some 36,000 American books, pamphlets and broadsides published in the early nineteenth century. The works cover all aspects of American life, including scientific thought, religion, politics, arts and literature, economics, Indian relations, military affairs, Westward expansion and more. The database is based on the authoritative bibliography by Ralph R. Shaw and Richard H. Shoemaker, supplemented by thousands of newly identified items. The database continues the Early American Imprints: Series I, 1639-1800.

 [Go to Early American Imprints Series II, Shaw-Shoemaker, 1801-1819](#)

Early American Imprints Text Creation Partnership

A selection of digitized and encoded texts selected from the titles in the Evans Early American Imprints collection. Includes materials printed in the American colonies and United States before 1820.

 [Go to Early American Imprints Text Creation Partnership](#)

Early English Books Online

Early English Books Online contains over 125,000 titles listed in Pollard's and Redgrave's Short-Title Catalogue (1475-1640), Wing's Short-Title Catalogue (1641-1700), and the Thomason Tracts (1640-1661). Coverage includes the first book printed in English by William Caxton and features works by Malory, Bacon, More, Erasmus, Boyle, Newton, and Galileo. Novels, prayer books, pamphlets, almanacs, calendars, and many other types of primary sources are included. The works are presented as images that can be viewed online or downloaded in PDF format for viewing off-line.

 [Go to Early English Books Online](#)

Early English Books Online - text creation partnership

A selection of digitized and encoded texts chosen from images in the Early English Books Online Project (works printed in the British Isles or in English from 1473 to 1700). Works chosen must be associated with an author whose name appears in the New Cambridge Bibliography of English Literature, or be named by title in the Bibliography.

 [Go to Early English Books Online - text creation partnership](#)

Early English Prose Fiction

A collection of more than 200 works from the period 1500-1700, exploring the rich diversity of prose fiction in English in the period preceding the emergence of the realist novel as its dominant form. Early English Prose Fiction offers the full text of works by key writers such as John Bunyan, Sir Philip Sidney, Thomas Nashe and Aphra Behn, and has been produced in association with the Salzburg Centre for Research on the Early English Novel (SCREEN).

 [Go to Early English Prose Fiction](#)

Ecology Abstracts

Ecology Abstracts focuses on how organisms of all kinds - microbes, plants, and animals - interact with their environments and with other organisms. Also includes works on the impacts of environmental change. Coverage is from 1982 to date.

 [Go to Ecology Abstracts](#)

EconLit

EconLit provides citations, with selected abstracts, to the international publications on economics since 1969. EconLit covers a broad range of document types, including journal articles, books, dissertations, and articles in collective works.

 [Go to EconLit](#)

Editions and Adaptations of Shakespeare

Contains the following: eleven major editions from the first folio of 1623 to the Cambridge edition of 1853-6; twenty-eight separate contemporary printings of individual plays and poems; selected apocrypha and related works; more than one hundred adaptations, sequels and burlesques from the seventeenth, eighteenth, and nineteenth centuries, including the whole of Bell's acting edition of Shakespeare's plays (1774).

 [Go to Editions and Adaptations of Shakespeare](#)

Education Abstracts Full Text

Education Abstracts Full Text contains abstracting and indexing coverage for over 475 periodicals included in Education Index as well as the full text of over 150 periodicals, offering instant access to information.

 [Go to Education Abstracts Full Text](#)

eHRAF Collection of Archaeology

The Human Relations Area Files are designed to facilitate the cross-cultural study of human society, culture, and behavior. Two HRAF databases are available: Ethnography Collection and Archaeology Collection. They provide full-text access to source material on a wide variety of cultures around the world, as well as a cultural summary and bibliography for each culture covered.

 [Go to eHRAF Collection of Archaeology](#)

eHRAF World Cultures (formerly Collection of Ethnography)

The Human Relations Area Files are designed to facilitate the cross-cultural study of human society, culture, and behavior. Two HRAF databases are available: Ethnography Collection and Archaeology Collection. They provide full-text access to source material on a wide variety of cultures around the world, as well as a cultural summary and bibliography for each culture covered.

 [Go to eHRAF World Cultures \(formerly Collection of Ethnography\)](#)

Eighteenth - Century Fiction

A collection of 96 complete works of English prose from the period 1700-1780 by writers from the British Isles. Key figures covered include Daniel Defoe, Henry Fielding, Eliza Haywood, Samuel Richardson, Tobias Smollett, Laurence Sterne and Jonathan Swift. In addition to a scanned version of Sterne's Tristram Shandy, the collection also contains two different editions of Richardson's Clarissa and Pamela, and of Swift's Gulliver's Travels.

 [Go to Eighteenth - Century Fiction](#)

Eighteenth Century Collections Online (ECCO)

Full texts and images of nearly 150,000 titles and editions printed in the British Isles and the Americas between 1701 and 1800, including materials in foreign languages as well as in English.

 [Go to Eighteenth Century Collections Online \(ECCO\)](#)

Eighteenth Century Collections Online Text Creation Partnership

A selection of digitized and encoded texts selected from titles in Eighteenth Century Collections Online.

 [Go to Eighteenth Century Collections Online Text Creation Partnership](#)

Eighteenth Century Journals Online II

A collection of digitized newspapers and periodicals from 1699 to 1812 selected from the Humanities Research Center at the University of Texas. Searchable by date, publisher, location, and full text. Supplements "Eighteenth Century Journals from the Hope Collection at the Bodleian Library, Oxford," available in the University Park News and Microforms Library.

 [Go to Eighteenth Century Journals Online II](#)

Electronic Reserves

 [Go to Electronic Reserves](#)

Electronic Theses and Dissertations Resources

Provides information concerning electronic theses and dissertations resources across the country.

 [Go to Electronic Theses and Dissertations Resources](#)

Elsevier ScienceDirect (full text journal articles)

This system provides access to the electronic versions of the Elsevier journals that we subscribe to. Current issues and back files are included. Currently, it includes more than 1,200 journals. The full text collection contains over 1.5 million articles from 1995 to present across all fields of science.

 [Go to Elsevier ScienceDirect \(full text journal articles\)](#)

Empire Online, 1492-1969

This project brings together approximately 60,000 images of original sources, both manuscript and printed materials, documenting the history of exploration, cultural contact, and colonialism. Thematic essays introduce the material and place the documents within a broad historical, literary and cultural context. Topics include race, class and empire, religion, art, and economic aspects of empire.

 [Go to Empire Online, 1492-1969](#)

Encyclopaedia of Islam

The Encyclopaedia of Islam (New Edition) sets out the present state of our knowledge of the Islamic World. It is a unique and invaluable reference tool, an essential key to understanding the world of Islam, and the authoritative source not only on the religion, but also on the believers and the countries in which they live. It embraces articles on distinguished Muslims of every era and origin, on tribes and dynasties, on crafts and sciences, on political and religious institutions, on the geography, ethnography, flora and fauna of the various countries and on the history, topography and monuments of the major towns and cities. In its geographical and historical scope it encompasses the old Arabo-Islamic empire, the Islamic countries of Iran, Central Asia, the Indian sub-continent and Indonesia, as well as the Ottoman Empire and all other Islamic countries. The Encyclopaedia of Islam is the most important reference tool on Islam presently available.

 [Go to Encyclopaedia of Islam](#)

Encyclopedia of American Studies

The Encyclopedia of American Studies provides interdisciplinary coverage of the American experience, from pre-colonial days to the present. Over 660 articles cover areas such as history, literature, art, photography, film, architecture, urban studies, ethnicity, race, gender, economics, politics, wars, consumer culture, and global America.

 [Go to Encyclopedia of American Studies](#)

Encyclopedia of International Media and Communications

The Encyclopedia of International Media and Communications (EIMC) seeks to provide "clear knowledge of the workings of the media and communications worldwide" and to outline possible futures. "Communications" is restricted to communications technology. EIMC's international authorship consists mainly of academics, a quarter of whom are from 26 countries outside the US—a globally diverse pool. An outline of section headings and glossary preface each article, and black-and-white figures, tables, and occasional photographs appear throughout. The editor defines the audience for EIMC broadly—professors, students, "scholars and researchers ... journalists and other writers, librarians and historians, educators and executives of multinational corporations—in fact, anyone who needs information" related to media and communications.—Choice Review, Nov. 2003.

 [Go to Encyclopedia of International Media and Communications](#)

Energy Citations (DOE)

The Energy Citations Database (ECD) contains bibliographic records for energy and energy-related STI from the Department of Energy (DOE) and its predecessor agencies, the Energy Research & Development Administration (ERDA) and the Atomic Energy Commission (AEC). The Database provides access to DOE publicly available citations from 1948 through the present, with continued growth through regular updates.

 [Go to Energy Citations \(DOE\)](#)

Engineered Materials

The growing importance of polymers, ceramics, and composites in a variety of structural and other advanced applications requires the in-depth coverage provided by Engineered Materials Abstracts (EMA). Citations regarding the research, manufacturing practices, properties and applications of these materials have been taken from 1,300 journals, plus dissertations, government reports, conference proceedings, and books indexed by expert editors from Materials Information. Begun in 1986, Engineered Materials Abstracts is an electronic database containing Ceramics, Composites and Polymers subfiles. EMA is specifically designed to serve materials sciences researchers, engineers and scientists.

 [Go to Engineered Materials](#)

English Drama (1280-1915)

A unique collection of more than 3,900 plays in verse and prose tracing the development of drama in English from the medieval mystery cycles to the comedies of Oscar Wilde.

 [Go to English Drama \(1280-1915\)](#)

English Poetry, Second Edition

Provides complete texts of the works of over 2,700 poets from the 8th to early 20th century—in all, more than 183,000 poems. Based on the New Cambridge Bibliography of English Literature, but also includes English language poets from Ireland, Australia, and New Zealand. Generally includes original texts published during the authors' lifetimes.

 [Go to English Poetry, Second Edition](#)

English Short Title Catalogue

The ESTC is a comprehensive bibliographic record of works printed in Britain and North America or in the English language anywhere else in the world between 1473 and 1800. It includes books, serials, pamphlets, and single-sheet items, and notes the location of copies in some 2,000 contributing libraries worldwide.

 [Go to English Short Title Catalogue](#)

ENGnetBASE

A collection of over 100 handbooks covering all fields of engineering.

 [Go to ENGnetBASE](#)

Environmental Engineering Abstracts

Environmental Engineering Abstracts covers the world literature pertaining to technological and engineering aspects of air and water quality, environmental safety, and energy production. More than 700 primary journals are thoroughly indexed and abstracted. Over 2,500 additional sources, including monographs and conference proceedings, are also monitored for relevant articles. ##Subject Coverage##Major areas of coverage include: ##Agricultural equipment and methods ##Arctic and tropical engineering ##Coastal engineering ##Environmental impact and protection ##Hazardous materials ##Heat exchangers ##Hydroelectric power ##Internal combustion engines ##Mines and quarry equipment ##Nuclear power plants ##Pipes and pipelines ##Sources and control of air pollution ##Steam power ##Thermoelectric energy ##Tidal and wind power ##Treatment of sewage and industrial wastes ##Turbines ##Water analysis and treatment techniques ## ##Dates of Coverage##Approximately 1990-current. The oldest record in the database has a publication date of 1973; about 50% of its records have publication dates of 1997 or later.

 [Go to Environmental Engineering Abstracts](#)

Environmental Sciences and Pollution Management

The Environmental Sciences Collection provides abstracts and references to the literature covering all areas of air, land, water, and noise pollution as well as bacteriology, ecology, toxicology, risk assessment, environmental engineering, environmental biotechnology, waste management, and water resources from 1967 to the present. Abstracts and citations are drawn from over 4000 scientific journals and thousands of other sources including conference proceedings, reports, monographs, books and government publications. The collection consists of thirteen files which can be searched individually:##(1) Agricultural & Environmental Biotechnology Abstracts (1993 to date)##(2) Aquatic Pollution & Environmental Quality (1990 to date)##(3) Ecology Abstracts (1982 to date)##(4) Environmental Engineering Abstracts (1981 to date)##(5) Health & Safety Science Abstracts (1981 to date)##(6) Human Population & Natural Resource Management (1995 to date)##(7) Microbiology Abstracts Section A: Industrial & Applied Microbiology (1982 to date)##(8) Microbiology Abstracts Section B: Bacteriology, also called Bacteriology Abstracts (1982 to date)##(9) Pollution Abstracts (1981 to date)##(10) Risk Abstracts (1990 to date)##(11) Sustainability Science Abstracts (2003 to date)##(12) Toxicology Abstracts (1981 to date)##(13) Water Resources Abstracts (1967 to date)##Coverage: 1967 to current. Updates: Monthly.##N.B. The file called Digests of Environmental Impact Statements, which used to be included in this collection, is now a separate index.

 [Go to Environmental Sciences and Pollution Management](#)

ERIC

The ERIC (Educational Resources Information Center) database is sponsored by the U.S. Department of Education to provide extensive access to educational-related literature. The ERIC database corresponds to two printed journals: Resources in Education (RIE) and Current Index to Journals in Education (CIJE). Both journals provide access to some 14,000 documents and over 20,000 journal articles per year.

 [Go to ERIC](#)

ERIC (USDE)

The Education Resources Information Center (ERIC) is a digital library of education-related resources.

 [Go to ERIC \(USDE\)](#)

esp@cenet - European Patent Office Database

"Over 30.5 million documents including the most recent 24##months of publications from the European Patent Office,##recent 24 months of PCT-publications from World Intellectual##Property Organization (WIPO), the EPODOC database for##"worldwide documents" where coverage varies by country (with##US Patents from 1836 to present), or Japanese Documents -##PAJ (Patent Abstracts of Japan) bibliographic database since##1976."

 [Go to esp@cenet - European Patent Office Database](#)

E-STAT

E-STAT is Statistics Canada's dynamic interactive teaching and learning tool available on the Internet. It is designed to bring an enormous warehouse of timely, reliable and accurate data about Canada and its ever-changing people to educational institutions, using current Canadian Socio-economic Information Management System(CANSIM) multidimensional tables, and the most recent census data, as well as historical data. E-STAT lets you bring the columns of data to life by presenting them as colourful graphs and maps, which immediately reveal the tren

 [Go to E-STAT](#)

Ethnic NewsWatch

Ethnic NewsWatch (ENW) is a comprehensive full text database of the newspapers, magazines and journals of the ethnic, minority and native press. Continuously growing since 1991, with archival material back to 1985, Ethnic NewsWatch is now a collection of more than 470,000 full-text articles from over 200 publications. Searchable in both English and Spanish, with titles in both languages and more than 100,000 articles in Spanish, ENW offers in-depth coverage of a wide range of current and retrospective topics easily accessed using free text and fielded searching. An average of 7,500 new articles is added each month.

 [Go to Ethnic NewsWatch](#)

E-ZBorrow (Pennsylvania Academic Library Consortium)

PALCI stands for the Pennsylvania Academic Libraries Connection Initiative. In addition, to Penn State, other participating libraries include: Indiana University of Pennsylvania (currently search only), Lafayette College, Lehigh University, and University of Pittsburgh. A full implementation of the system will provide access to the catalogs of 38 academic libraries in Pennsylvania. ##Access to this system is guaranteed through the fall semester. Continued availability will depend on the purchasing decision of the consortium.

 [Go to E-ZBorrow \(Pennsylvania Academic Library Consortium\)](#)

E-ZBorrow (Pennsylvania Academic Library Consortium)

PALCI stands for the Pennsylvania Academic Libraries Connection Initiative. In addition, to Penn State, other participating libraries include: Indiana University of Pennsylvania (currently search only), Lafayette College, Lehigh University, and University of Pittsburgh. A full implementation of the system will provide access to the catalogs of 38 academic libraries in Pennsylvania. ##Access to this system is guaranteed through the fall semester. Continued availability will depend on the purchasing decision of the consortium.

 [Go to E-ZBorrow \(Pennsylvania Academic Library Consortium\)](#)

FBIS Full Text (Foreign Broadcast Information Service)

Translations of broadcasts, news agency transmissions, newspapers, periodicals, and government statements from nations around the world are the sources of this information.##Full text is currently available for selected areas only. For access to all FBIS reports use the A-Z link for the FBIS Index. All reports are available on microfiche in the Social Sciences Library 2nd floor Paterno.

 [Go to FBIS Full Text \(Foreign Broadcast Information Service\)](#)

FBIS Index (Foreign Broadcast Information Service)

An index to the microfiche collection FBIS Daily Reports, which include translations of broadcasts, news agency transmissions, newspapers, periodicals, and government statements from nations around the world are the sources of this information. Microfiche of full reports are available in the Social Sciences Library, 2nd floor Paterno.

 [Go to FBIS Index \(Foreign Broadcast Information Service\)](#)

Federal News Service

Search Federal News Service transcripts.

 [Go to Federal News Service](#)

Federal R&D; Project Summaries (grants)

This database provides information on research grants awarded by the U.S. Department of Energy, the National Institutes of Health, and the National Science Foundation. The database includes current grants, and several years of retrospective information.

 [Go to Federal R&D; Project Summaries \(grants\)](#)

Feminae: Medieval Women and Gender Index (formerly Medieval Feminist Index)

The Medieval Feminist Index covers journal articles, book reviews, and essays in books about women, sexuality, and gender during the Middle Ages. Librarians and scholars began compiling the index (MFI) in July 1996. Books written by a single author are not included. To locate these, search The CAT.

 [Go to Feminae: Medieval Women and Gender Index \(formerly Medieval Feminist Index\)](#)

FIAF International FilmArchive Database

FIAF (International Federation of Film Archives) International FilmArchive Database contains information from the following print resources: The International Index to Film Periodicals 1972-9/2002; The International Index to TV Periodicals 1979-9/2002; List of periodicals indexed; Treasures from the Film Archives; Film/TV Documentation Collections and FIAF member publications.

 [Go to FIAF International FilmArchive Database](#)

FIAF Members Publications

Full annotated bibliographic citations to books, pamphlets, programmes, and other materials published since 1966 by FIAF archives.

 [Go to FIAF Members Publications](#)

Film & Television Literature Index

Film & Television Literature Index is a comprehensive bibliographic database covering the entire spectrum of television and film writing, including theory, preservation and restoration; writing, production, cinematography; production and film and television reviews. It has been designed for use by a diverse audience including film scholars, college students, and general viewers. Publications include Film Journal International, Journal of British Cinema & Television, Film Criticism, Post Script, Variety, and more as well as technical publications such as SMPTE, Mirroring the international film & television industries and cultures, FTLI also includes publications such as Cahiers du Cinema, Filmihulu, SegnoCinema, and Kinetoscopio. Subject coverage includes film & television theory, preservation & restoration, writing, production, cinematography, technical aspects, and reviews.

 [Go to Film & Television Literature Index](#)

Film Literature Index

The Film Literature Index (FLI) annually indexes 150 film and television periodicals from 30 countries cover-to-cover and 200 other periodicals selectively for articles on film and television. The periodicals range from the scholarly to the popular. More than 2,000 subject headings provide detailed analysis of the articles. ##The National Endowment for the Humanities awarded Indiana University a grant to convert the print version of the Film Literature Index (FLI) to electronic form. The FLI Online contains approximately 700,000 citations to articles, film reviews and book reviews published between 1976-2001.

 [Go to Film Literature Index](#)

Film/TV Collections

The International Directory of Film and TV Documentation Collections contains information about collections of paper archives, scripts, press materials, stills, posters, and all other film documentation held in more than 145 of the world's foremost film archives, libraries, and educational institutions in fifty-four countries. Entries include contact information, descriptions of each collection's scope and contents, and access guidelines.

 [Go to Film/TV Collections](#)

Firstgov.gov

FirstGov.gov is the official U.S. gateway to all government information.

 [Go to Firstgov.gov](#)

Food Science Technology Abstracts (FSTA)

FSTA contains comprehensive coverage of all aspects of food science, food technology and food-related human and pet nutrition, including: raw materials and ingredients; manufacturing & distribution; food safety; product development & consumer issues; food biotechnology; functional and novel foods; food additives, nutrition and packaging. The database contains information from scientific journals, patents, books, conference proceedings, reports, theses, standards, legislation and more. Coverage: 1969 Å¶Å¶Å¶Å¶ Present.

 [Go to Food Science Technology Abstracts \(FSTA\)](#)

Foreign Law Guide

Foreign Law Guide is a comprehensive resource which provides essential information on primary and secondary sources of law for many foreign jurisdictions. It provides the researcher with complete bibliographic citations to legislation, the existence of English translations whenever possible, and selected references to secondary sources in English. It is arranged by country and includes an introduction to the legal system of that country and lists the codes, session laws, and court reports available in print and on the Internet. Each country also contains a section arranged by subject that outlines the major laws for the subject and provides references to English translations, when available.

 [Go to Foreign Law Guide](#)

FRANCIS

A multilingual, multidisciplinary database covering the humanities and social sciences. Its broad subject areas and international scope include topics such as archaeology, geography, linguistics, philosophy, religion, and sociology. Most of the indexing is for journal articles (from roughly 4000 journals) but some conference papers and books are also covered. Indexing began in 1984 and is updated monthly.

 [Go to FRANCIS](#)

Fred Waring Collection

Bandleader, choral conductor, glee club pioneer, music educator, entrepreneur and renaissance man Fred Waring was a pioneer in every field of show business as well as music education and manufacturing. As the guiding force behind his large musical organization, he and his musicians earned accolades from listeners and critics alike throughout a career that spanned almost the entire 20th century.

 [Go to Fred Waring Collection](#)

Gale Virtual Reference Library

A collection of over 400 reference resources covering Å¶Å¶Å¶Å¶ Å¶Å¶Abbreviations, Africa, African Americans, Aging, AIDS, Alcohol, Almanacs,

America, American, Animals, Anthropology, Arts, Asia, Authors, Biodiversity, Bioethics, Biographies, Biography, Biology, Bisexual, Bisexuals, Bisexuality, Black, Blacks, Buddhism, Business plans, Cancer, Careers, Catholic, Chemistry, Children's Literature, Cinema, Cities, Civil Rights, Civilization, Clothing, Colleges, Communication, Companies, Company History, Computer Science, Conflicts, Congress, Constitution, Correctional Systems, Countries, Crime, Culture, Cultures, Data, Death, Decades, Dictionaries, Dictionary, Directories, Directory, Disorders, Distribution, Drama, Drugs, Earth Science, Eating Disorders, Economics, Education, Encyclopedias, Endangered Species, Energy, Environment, Ethics, Europe, Family, Fashion, Fellowships, Feminism, Film, Finance, Food, Forensics, Gay, Gender, Genetics, Genocide, Geographical, Geography, Government, Depression, Health, History, Holocaust, Humanities, Immigration, India, Industries, Islam, Justice, Knowledge Management, Labor, Law, Leisure, Lesbian, Literary, Literature, Loans, Management, Manufacturing, Marriage, Mathematics, Medicine, Middle East, Military, Labor, Movies, Multicultural, Musicians, Nations, Newsmakers, Novels, Nursing, Obesity, Occupations, Patients, Philosophy, Physics, Poetry, Poets, Policy, Politics, Pollution, Population, Poverty, Presidents, Primary Sources, Prisons, Psychoanalysis, Psychology, Public Health, Punishment, Recreation, Reference, Religion, Renaissance, Revolution, Scholarships, Science, Security, Sex, Sexuality, Short stories, Social Trends, Society, Sociology, Space Exploration, Sports, States, Statistics, Technologies, Technology, Telecommunications, Television, Terrorism, Theatre, Tobacco, Trade Unions, Virtual, War, Water, Weather, Women, World, Writers, Yearbook.

 [Go to Gale Virtual Reference Library](#)

Gallery Watch (Federal Budget and Bill Tracking)

Provides comprehensive bill histories for legislation since the 105th Congress. Also includes Line item budget information for FY 1978-

Current

 [Go to Gallery Watch \(Federal Budget and Bill Tracking\)](#)

Gallup Brain

The Gallup Brain is a searchable, living record of 70 years of public opinion. Inside, you'll find answers to more than 136,000 questions, and responses from more than 3.5 million people interviewed by The Gallup Poll since 1935. ##This unparalleled public opinion database also houses Gallup Poll News Service articles, Gallup Poll Tuesday Briefing articles, and Gallup Management Journal articles that feature in-depth public opinion and management data analyses. Replicas of historical news stories and press releases are available as well.

 [Go to Gallup Brain](#)

Gartner Reports (Information Technology)

A comprehensive collection of current research reports on business-related aspects of Information Technology.

 [Go to Gartner Reports \(Information Technology\)](#)

GDF Online (Global Development Finance Online)

Global Development Finance (GDF) is the World Bank's annual report on external financing prospects for developing and transition countries. It tracks the yearly movement of international capital flows to developing countries, and analyzes policy issues for developing countries. GDF provides statistical data for 137 countries. Data may be displayed as charts or maps and exported.

 [Go to GDF Online \(Global Development Finance Online\)](#)

GEOBASE

GEOBASE contains citations and abstracts to worldwide literature on geography, geology, ecology, international development, energy, hydrology and related disciplines.##Coverage: 1980 to the present. Updates: monthly

 [Go to GEOBASE](#)

GEOBIB (Online Geographical Bibliography)

Indexes geographical publications(books, periodical articles, pamphlets, government documents, maps and atlases) from 1984-present. Replaces the paper title, Current Geographical Publications, produced by the American Geographical Society Library, UW-Milwaukee.

 [Go to GEOBIB \(Online Geographical Bibliography\)](#)

Geological Society of America journals online

Full-text of journals published by the Geological Society of America, from 1988-date.

 [Go to Geological Society of America journals online](#)

GeoRef

GeoRef contains over 2 million references to geoscience journal articles, books, maps, conference papers, reports, theses and dissertations. Covers the geology of North America from 1785 to the present and the geology of the rest of the world from 1933 to the present. ##The database includes references to all publications of the U.S. Geological Survey, and US Canadian theses in the geosciences.

 [Go to GeoRef](#)

GeoScienceWorld (GSW)

A comprehensive Internet resource for research and communications in the geosciences, built on a core database aggregation of peer-reviewed journals indexed, linked, and inter-operable with GeoRef.

 [Go to GeoScienceWorld \(GSW\)](#)

GPO Access via Firstgov

The U.S. Government Printing Office disseminates official information from all three branches of the Federal Government.

 [Go to GPO Access via Firstgov](#)

GrayLIT Network (technical reports)

This resource contains recent full-text technical reports from the U.S. Departments of Energy and Defense, several NASA labs, and the Environmental Protection Agency. Coverage varies, but usually includes reports from the mid-1990s to the present.

 [Go to GrayLIT Network \(technical reports\)](#)

GreenFILE

GreenFILE is a database focusing on the relationship between human beings and the environment, with information on topics ranging from global warming to recycling to alternate fuel sources and beyond. Comprised of scholarly and general interest titles, as well as government documents and reports, GreenFILE offers a unique perspective on the positive and negative ways humans affect the ecology. Drawing on the connection between the environment and disciplines such as agriculture, education, law, health and technology, GreenFILE will serve as an informative resource for anyone concerned about the issues facing our planet.

 [Go to GreenFILE](#)

Grove Music Online (New Grove Dictionary of Music)

Grove Music Online offers a dynamic research tool combining the full text of the 29-volume print edition with the added benefit of sophisticated search capabilities, one-click cross-referencing, and an ever increasing network of web-links to musical sites around the world.

 [Go to Grove Music Online \(New Grove Dictionary of Music\)](#)

Guide to Computing Literature

The [ACM] Guide to Computing Literature consists initially of more than 350,000 citations of core works in computing covering the last fifteen years, with a mid-term growth goal of one million works. These works are of all types (journal articles, proceeding papers, books, technical reports, dissertations, among others), and are from all the major publishers in the discipline. A wide search of the world's computing literature is made possible by the "Online Guide", which also includes reference linking.

 [Go to Guide to Computing Literature](#)

Guides to Microforms (Lexis Nexis)

Guides to Microforms, one of the History Universe products from Lexis Nexis, allows users to search the guides for 195 of the most popular microform collections from University Publications of America (UPA) via the WEB. Coverage will expand with some 50 more titles each year including new titles, backlist titles, and widely-held titles from other microform publishers. ##This source includes the guides for many collections owned by the Penn State University Libraries, including the Papers of the NAACP; Black Workers in the Era of the Great Migration, 1916-1929; the Papers of Eleanor Roosevelt, 1933-1945; and Records of the Southern Christian Leadership Conference, 1954-1970. ##NOTE: The Libraries does not own every collection indexed in the Guides to Microforms, and in some cases, the Libraries only owns pieces of a collection. To determine exactly what the Libraries owns, PLEASE search the CAT or go to MicrofinderIndex of Collections available in Microforms.

 [Go to Guides to Microforms \(Lexis Nexis\)](#)

Gutenberg-e

The Gutenberg-e titles combine distinguished and innovative scholarship with creative and thoughtful use of digital technology. The e-books are selected by the American Historical Association and produced by the electronic publishing staff at Columbia University Press. The electronic versions offer elements that cannot be conveyed in print: extensive documentation, hyperlinks to supplementary literature, images, music, video, and links to related web sites.

 [Go to Gutenberg-e](#)

Handbook of Latin American Studies

The Handbook is a bibliography on Latin America consisting of works selected and annotated by scholars. Edited by the Hispanic Division of the Library of Congress, the multidisciplinary Handbook alternates annually between the social sciences and the humanities. Each year, more than 130 academics from around the world choose over 5,000 works for inclusion in the Handbook. Continuously published since 1936, the Handbook offers Latin Americanists an essential guide to available resources.

 [Go to Handbook of Latin American Studies](#)

HAPI (Hispanic American Periodicals Index)

HAPI Online contains complete bibliographic citations to articles, book reviews, documents, original literary works, and other materials about Central and South America, Mexico, the Caribbean basin, the United States-Mexico border region, and Hispanics in the United States appearing in more than 500 key social science and humanities journals published throughout the world.

 [Go to HAPI \(Hispanic American Periodicals Index\)](#)

Hazleton Collegian

The Hazleton Collegian flourished from December 1937 to December 1954. The publication was published monthly through 1941, then became a weekly edition. The title changed to Highacres Collegian in January 1955 and is the current name of the student newspaper. This digital collection is through April 1994.

 [Go to Hazleton Collegian](#)

Health & Psychosocial Instruments - HAPI

Health and Psychosocial Instruments features material on unpublished information-gathering tools for clinicians that are discussed in journal articles, such as questionnaires, interview schedules, tests, checklists, rating and other scales, coding schemes, and projective techniques. The majority of tools are in medical and nursing areas such as pain measurement, quality of life assessment, and drug efficacy evaluation. However, HaPI also includes tests used in medically related disciplines such as psychology, social work, occupational therapy, physical therapy, and speech & hearing therapy.

 [Go to Health & Psychosocial Instruments - HAPI](#)

Health and Safety Science Abstracts

This database provides a comprehensive, timely survey of recent work relating to public health, safety, and industrial hygiene. Coverage: 1981-date##Major subject areas included: ##oOccupational Safety and Health ##oTransportation ##oEnvironmental and Ecology ##oFood and Drugs ##oPesticides ##oNatural Disasters, Civil Defense, and Emergency Management ##oFire Safety ##oRadiation Safety, and Electrical Safety ##oConsumer and Recreation Safety ##oErgonomics, and Human Factors ##oDiseases, Injuries and Trauma ##oEpidemiology and Public Health ##oMedical Safety##oToxicology##oCivil and Structural Engineering

 [Go to Health and Safety Science Abstracts](#)

HeinOnline

Hein Online is a full-text research collection offering more than 900 legal journals; federal publications such as the Federal Register, U.S. treaties and agreements, U.S. Supreme Court opinions, federal legislative histories, presidential documents; a collection of legal classics; and Philip C. Jessup International Moot Court competition materials.

 [Go to HeinOnline](#)

Historical Abstracts

Search for articles and other publications on world history from 1450 to present, (except for the United States and Canada which are indexed in the companion work, America: History and Life). The database includes articles in journals worldwide, including a selection of major social science and humanities journals. Also included are references to dissertations and books.##Keywords: early modern, imperialism, exploration, migration, immigration, labor, agriculture, religion, culture, society, politics, economic, war, military, historiography. ##Europe, European, Western Europe, Northern Europe, Eastern Europe, Central Europe, East Asia, Southeast Asia, South Asia, Ottoman Empire, Middle East, Africa, North Africa, West Africa, South of the Sahara. ##Countries include: North Korea, South Korea, Taiwan, Vietnam, India, Nepal, Pakistan, China, Japan, Turkey, Iraq, Iran, Israel, Kuwait, Lebanon, Saudi Arabia, Syria, Austria, Belgium, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, Switzerland, United Kingdom, Britain, England, Russia, Soviet Union, Baltic, Hungary, Poland, Ukraine, Egypt, South Africa

 [Go to Historical Abstracts](#)

Historical Statistics of the United States

Provides a comprehensive compendium of statistics from over 1,000 sources recording every aspect of the history of the United States from population to prices; from voting patterns to Vietnam veterans; from energy to education; from abortions to zinc and everything in between. Over 80 scholars have contributed their efforts and expertise to select, assemble, and document the data, to write the introductory essays, and to analyze the material.

 [Go to Historical Statistics of the United States](#)

History Cooperative E-Journals

The full-text of recent issues of the American Historical Review, the Journal of American History, Labour History, Environmental History, and other journals. Project partners include the American Historical Association, the Organization of American Historians and other publishers.

 [Go to History Cooperative E-Journals](#)

History E-Book Project (ACLS)

The American Council of Learned Societies' History E-Book Project provides online full-text for over 500 works in history, selected for their importance to historical studies. ACLS is collaborating with five Learned Societies and a select group of University Presses to provide access to high-quality works in history. The History E-Book project will be adding approximately 250 books annually to the collection, as well as publishing 85 completely new electronic titles that utilize technology to communicate the results of scholarship in new ways.

 [Go to History E-Book Project \(ACLS\)](#)

History of Science, Technology and Medicine

Describes journal articles, conference proceedings, books, book reviews, and dissertations in the history of science, technology, and medicine and allied historical fields. ##Keywords: History, Agricultural Science, Astrology, Astronomy, Science, Biology, Biotechnology, Chemistry, Computer Science, Electronics, Engineering, Environmental Science, Geography, Historiography, Mathematics, Medical Science, Military Technology, Natural History, Neurosciences, Physics, Public Health

 [Go to History of Science, Technology and Medicine](#)

Homeland Security Digital Library

The Homeland Security Digital Library is sponsored by the U.S. Department of Homeland Security's Office of Grants and Training and the Naval Postgraduate School's Center for Homeland Defense and Security. The HSDL is the nation's premier tool for homeland security policy and strategy research. The collection includes homeland security strategy, policy and research documents published by: Federal, state and local government agencies; International governments and institutions; and Research institutions, universities, think tanks.

 [Go to Homeland Security Digital Library](#)

Hoover's

Hoover's Online provides company and industry information, company news, information on initial public offerings, and career and personal finance information.

 [Go to Hoover's](#)

Horn Book Guide Online (Children's Book Reviews)

The Horn Book Guide Online, updated each spring and fall, publishes short, critical reviews of virtually every hardcover trade book published in the United States for young people. The reviews are clear and succinct (about 60 to 75 words), identifying strengths and weaknesses and rating the books on a scale from one (high) to six. The database is searchable by author, illustrator, title, subject, and bibliographic data, as well as by rating. Currently, there are more than 51,000 full text reviews from 1989 through the current issue.

 [Go to Horn Book Guide Online \(Children's Book Reviews\)](#)

Houben-Weyl Methods in Organic Chemistry

Science of Synthesis is the new edition of the Houben-Weyl Methods in Organic Chemistry, a major reference work that provides synthetic methods for the preparation of organic chemicals. The original edition began publication in 1909 and covers the organic chemistry literature back to 1835. All editions of Houben-Weyl as well as the E-Series are also included as an electronic backfile within Science of Synthesis. Please note that the earlier editions of Houben-Weyl are in German. ##Hazard Information for The Science of Synthesis ## ##WARNING! CAREFULLY READ THE FOLLOWING: ALTHOUGH THE SCIENCE OF SYNTHESIS HAS BEEN WRITTEN BY EXPERTS, THE CUSTOMER AND ANY EMPLOYEES, AGENTS AND CONSULTANTS OF THE CUSTOMER (THE "USER") WHO USE THE SCIENCE OF SYNTHESIS ARE HEREBY ADVISED AND ACKNOWLEDGE AND AGREE THAT THE HANDLING OF CHEMICALS, MICROORGANISMS, AND CHEMICAL APPARATUS CARRIES POTENTIALLY LIFE-THREATENING RISKS. FOR EXAMPLE, SERIOUS DANGERS COULD OCCUR THROUGH QUANTITIES BEING INCORRECTLY GIVEN. THE AUTHORS TOOK THE UTMOST CARE THAT THE QUANTITIES AND EXPERIMENTAL DETAILS DESCRIBED HEREIN REFLECTED THE CURRENT STATE OF THE ART OF SCIENCE WHEN THE WORK WAS PUBLISHED. HOWEVER, THE AUTHORS, EDITORS, AND PUBLISHERS TAKE NO RESPONSIBILITY AS TO THE CORRECTNESS OF THE CONTENT. FURTHER, SCIENTIFIC KNOWLEDGE IS CONSTANTLY CHANGING, AS NEW INFORMATION BECOMES AVAILABLE, THE CUSTOMER AND THE USERS MUST CONSULT IT. ALTHOUGH THE AUTHORS, PUBLISHER, AND EDITORS TOOK GREAT CARE IN PUBLISHING THE SCIENCE OF SYNTHESIS, IT IS POSSIBLE THAT TYPOGRAPHICAL ## ##THE CUSTOMER AND USER CAN FIND UNDER WWW.SCIENCE-OF-SYNTHESIS.COM A NON-EXHAUSTIVE LIST OF INTERNATIONAL SAFETY REGULATIONS, I.E. IT SERVES AS A GENERAL GUIDE. THE CUSTOMER AND USER REMAIN SOLELY RESPONSIBLE FOR IDENTIFYING ALL RELEVANT SAFETY REGULATIONS. THE CUSTOMER SHALL CAUSE ALL OF ITS USERS TO BE FREQUENTLY ALERTED TO THOSE GUIDELINES.

 [Go to Houben-Weyl Methods in Organic Chemistry](#)

Human Population and Natural Resources Management

This database explores human population and demography topics, as well as societal issues involving natural resource management. Coverage includes relevant papers, reports, books and reviews from peer-reviewed scientific journals. Material from conference proceedings and hard-to-find gray literature is summarized. Coverage is from 1995 to date.

 [Go to Human Population and Natural Resources Management](#)

IBIDS (Dietary supplements database)

The International Bibliographic Information on Dietary Supplements (IBIDS) is a database of over 730,000 citations to published, international, scientific literature on dietary supplements, including vitamins, minerals, and botanicals. IBIDS is produced by the Office of Dietary Supplements (ODS) at the National Institutes of Health to assist the public, health care providers, and researchers in locating credible, scientific literature on dietary supplements. Learn more about IBIDS at http://dietary-supplements.info.nih.gov/Health_Information/IBIDS_Overview.aspx#about.

 [Go to IBIDS \(Dietary supplements database\)](#)

IBISWorld

IBISWorld provides over 700 full-text industry reports, 700 US industry risk rating reports, and information on over 8000 Publicly Traded US Companies as well as hundreds of economic and demographic profiles.

 [Go to IBISWorld](#)

IBZ (International Bibliography of Periodical Literature)

IBZ is an index of periodical literature covering basic research from all fields of knowledge, and is particularly strong in the humanities and the social sciences. Over 11,000 periodicals are indexed by this multilingual database, now containing over 1.7 million records. It is international in scope, and indexes a significant proportion of the periodicals published on the European continent. ##Coverage: 1984-present Current edition. Updates: Continuous.

 [Go to IBZ \(International Bibliography of Periodical Literature\)](#)

ICPSR (Inter-university Consortium for Political and Social Research)

The Inter-university Consortium for Political and Social Research (ICPSR) is a membership-based, non-profit data archive located at the Institute for Social Research at the University of Michigan. It serves member colleges and universities in the United States and abroad by providing: Access to the world's largest archive of computerized social science data. Training facilities for the study of quantitative social analysis techniques. Resources for social scientists using advanced computer technologies.

 [Go to ICPSR \(Inter-university Consortium for Political and Social Research\)](#)

IDZ Index of German Journals 1750-1815

The Index of German Journals contains 100,000 records of articles published 1750 - 1815. These articles are indexed with German subject headings.

 [Go to IDZ Index of German Journals 1750-1815](#)

IEEE Xplore

IEEE Xplore contains the full text of all IEEE and IEE journal articles, conference papers, and standards published since 1988. The material can be accessed through a searchable database or by browsing.

 [Go to IEEE Xplore](#)

IIBP - International Index to Black Periodicals

IIBP Full Text draws its current content from more than 150 international scholarly and popular periodicals in Black Studies and contains full-text coverage of 40 core Black Studies periodicals. It covers a wide array of humanities-related disciplines including art, cultural criticism, economics, education, health, history, language and literature, law, philosophy, politics, religion, and sociology among others.

 [Go to IIBP - International Index to Black Periodicals](#)

Image Databases at Penn State

Collected summary for Image Databases at Penn State

 [Go to Image Databases at Penn State](#)

IMDb

The Internet Movie Database (IMDb) is a collection of movie information. IMDb tries to catalog every pertinent detail about a movie, from who was in it, to who made it, to trivia about it, to filming locations, and even where one can find reviews and fan sites on the web. ##IMDb then do their best to present this information in a manner that is easy to search and access.

 [Go to IMDb](#)

Index Islamicus

Index Islamicus is an international bibliography of publications in European languages covering all aspects of Islam and the Muslim world, including history, beliefs, societies, cultures, languages, and literature. The database includes material published by Western orientlists, social scientists and Muslims and contains indexing for 3,470 titles with coverage dating back to 1906. Index Islamicus is produced by Brill Academic Publishers.

 [Go to Index Islamicus](#)

Index of Christian Art

A descriptive and bibliographic index of thematic and iconographic content of early Christian and medieval art from apostolic times to 1400 A.D. The online database contains all of the works electronically processed for the print version of the index at Princeton University since 1991 (over 23,000 work of art records as of June 2002), including a growing number of images and bibliographic entries covering iconography, art history, archaeology, and classical and religious studies.

 [Go to Index of Christian Art](#)

Index to Foreign Legal Periodicals

The Index to Foreign Legal Periodicals provides access to legal literature worldwide and covers all forms of foreign law. Types of documents covered include journal articles, congress reports, essay collections, yearbooks, and book reviews. Coverage is 1985 to current.

 [Go to Index to Foreign Legal Periodicals](#)

Index to Jewish Periodicals

Index to Jewish Periodicals is the definitive index on Jewish history, activity and thought. This database provides a comprehensive guide to English-language articles, book reviews, and feature stories in more than 160 journals devoted to Jewish affairs. Index to Jewish Periodicals is intended for students of Jewish thought and others interested in contemporary Jewish and Middle Eastern affairs. Journal coverage dates back as far as 1988.

 [Go to Index to Jewish Periodicals](#)

Index to Legal Periodicals Full-Text

Wilson's Index to Legal Periodicals indexes legal journals, law reviews, yearbooks, and bar association publications from 1918 to the present. Coverage also includes books and full-text of selected articles from the early 1990s to the present.

 [Go to Index to Legal Periodicals Full-Text](#)

Index to Theses

A comprehensive listing of theses with abstracts accepted for higher degrees by universities in Great Britain and Ireland since 1716.

 [Go to Index to Theses](#)

Index Translationum

The INDEX TRANSLATIONUM data base contains cumulative bibliographical information on books translated and published in about a hundred of UNESCO's Member States since 1979 and totalizing some 1,300,000 notices in all disciplines: literature, social and human sciences, natural and exact sciences, art, history and so forth. It is planned to update this every quarter.

 [Go to Index Translationum](#)

Indiana University Library Catalog (IUCAT)

 [Go to Indiana University Library Catalog \(IUCAT\)](#)

Informaworld

informaworld is an online publications website from Informa, hosting journals, e-books, reference works and abstracts from Taylor & Francis, Routledge, Psychology Press and Informa Healthcare.

 [Go to Informaworld](#)

infoUSA (USDS)

Authoritative resource for foreign audiences seeking information about American society, political processes, official U.S. policies and culture.

 [Go to infoUSA \(USDS\)](#)

ingentaconnect.com (Ingenta)

ingentaconnect.com is a comprehensive multi-disciplinary document delivery service providing access to thousands of online journals from leading scholarly, academic and business publishers.

 [Go to ingentaconnect.com \(Ingenta\)](#)

Inspec (Ei Village 2)

Inspec is a leading bibliographic information database covering the fields of physics, electronics, computing, control engineering and information technology with more than 7.7 million records taken from 3,500 technical and scientific journals and 1,500 conference proceedings. Coverage: 1896-present.

 [Go to Inspec \(Ei Village 2\)](#)

Institute of Physics Journals (IOP)

Search electronic journal articles from the Institute of Physics.

 [Go to Institute of Physics Journals \(IOP\)](#)

InterAM Database (National Law Center for Inter-American Free Trade)

The National Law Center for Inter-American Free Trade's InterAm Database is an on-line collection of laws, regulations, case law, and secondary source materials for countries in the Americas. This collection is primarily in the original language (Spanish or Portuguese) but some materials are translated into English. The database is updated daily and arranged in over 25 topical areas related to trade and investment.

 [Go to InterAM Database \(National Law Center for Inter-American Free Trade\)](#)

International Encyclopedia of Social and Behavioral Sciences

The International Encyclopedia of the Social and Behavioral Sciences is the online equivalent of the 24 volume encyclopedia published in 2002. Content is organized around more than 30 primarily interdisciplinary topical areas of active research and significant promise (for example, memory, crime and violence, markets, modernization), combined with the categories: Overarching Topics, Disciplines, Intersecting fields, and Applications. Includes extensive indices, searchable full-text, and embedded electronic reference links. Annual updates are planned for release from 2004.

 [Go to International Encyclopedia of Social and Behavioral Sciences](#)

International FilmArchive

The FIAF International FilmArchive Database includes complete data from all volumes (1972 to the present) of the International Index to Film Periodicals plus records from its TV-related companion (1979 to the present).

 [Go to International FilmArchive](#)

International Financial Statistics Online

IFS Online is the principal statistical publication of the International Monetary Fund. Tables for each Fund member country include data on the country's exchange rates, Fund position, international liquidity, money and banking accounts, interest rates, prices, production, international transactions, government accounts, national accounts, and population. Selected series are published in area and world tables. Data may be downloaded as HTML, MS Excel, comma-delimited, or tab-delimited files. Some series begin with 1945. Updated monthly.

 [Go to International Financial Statistics Online](#)

International Index to Black Periodicals Full Text

IIBP Full Text draws its current content from more than 150 international scholarly and popular periodicals in Black Studies and contains full-text coverage of 40 core Black Studies periodicals. It covers a wide array of humanities-related disciplines including art, cultural criticism, economics, education, health, history, language and literature, law, philosophy, politics, religion, and sociology among others.

 [Go to International Index to Black Periodicals Full Text](#)

International Index to Music Periodicals

International Index to Music Periodicals Full Text (IIMPT) is an outstanding resource for music periodicals available on the web. It enables you to find articles on a comprehensive variety of subjects about music from a wide range of scholarship.

 [Go to International Index to Music Periodicals](#)

International Index to Performing Arts

International Index to the Performing Arts Full Text (IIPAF) is a dynamic resource for the performing arts that provides indexing and abstracts for more than 210 international journals.

 [Go to International Index to Performing Arts](#)

International Law in Domestic Courts

International Law in Domestic Courts is a case reporting service covering cases on public international law issues from over 60 jurisdictions. The cases feature full texts of judgments in their original language, English translations of key passages, and detailed analysis of the core legal issues. Coverage is from 2000 to the present.

 [Go to International Law in Domestic Courts](#)

International Medieval Bibliography

Indexes articles in journals, conference proceedings, and essay collections published worldwide. Publications dealing with the period 400-1500 and published since 1967 are covered. Subject areas include: Classics, Language and Literature, History and Archaeology, Theology and Philosophy, Arabic and Islamic Studies, Art History, Music, Theatre and Performance Arts, Crusades, Hagiography, Onomastics, Numismatics, Historiography, Epigraphy, medieval Manuscripts, Charters, Documents, Middle Ages.

 [Go to International Medieval Bibliography](#)

Internet Legal Resource Guide

A categorized index of more than 4000 select web sites in 238 nations, islands, and territories, as well as thousands of locally stored web pages, legal forms, and downloadable files, this site was established in 1995 to serve as a comprehensive resource of the information available on the Internet concerning law and the legal profession, with an emphasis on the United States of America.

 [Go to Internet Legal Resource Guide](#)

iPoll

comprehensivesource for US nationwide public opinion data from academic, commercial and media survey organizations such as ABC News, CBS News, Fox News, The Gallup Organization, Los Angeles Times, National Opinion Research Center, NBC News, New York Times, Princeton Survey Research Associates, the Program on International Policy Attitudes at the University of Maryland, USA Today and The Washington Post. iPoll is organized at the question-level providing the tools to sift through 350,000 questions asked on national public opinion surveys since 1935.

 [Go to iPoll](#)

ITER: Gateway to the Middle Ages and Renaissance

ITER is an interdisciplinary database for finding information on topics pertaining to the Middle Ages and the Renaissance (400-1700AD). The database includes citations for books, articles, and selected reviews. Iter Italicum, contains descriptions of Renaissance manuscripts in libraries and archives worldwide. ##Subject areas include: Classics, Language and Literature, History and Archaeology, Theology and Philosophy, Arabic and Islamic Studies, Art History, Music, Theatre and Performance Arts, Crusades, Hagiography, Onomastics, Numismatics, Historiography, Epigraphy, Medieval Manuscripts, Charters, Documents.

 [Go to ITER: Gateway to the Middle Ages and Renaissance](#)

Jack Rabin Collection on Alabama Civil Rights and Southern Activists

The Jack Rabin Collection on Alabama Civil Rights and Southern Activists is a compact but highly complex, multi-layered compilation of documents, sound recordings, and visual images.

 [Go to Jack Rabin Collection on Alabama Civil Rights and Southern Activists](#)

JapanKnowledge

JapanKnowledge is a portal to Japanese encyclopedias, dictionaries and databases that provide access to various reference sources in Japan including Encyclopedia Nipponica, Kodansha Encyclopedia of Japan, Progressive Japanese-English/English-Japanese Dictionaries, Gendai Yogo No Kiso Chishiki, Nihon Jimmei Daijiten, recent issues of the Economist Japanese edition, collection of Toyo Bunko series and other visual and sound databases. The Kodansha Encyclopedia of Japan is in English, the remaining reference sources are in Japanese.

 [Go to JapanKnowledge](#)

Johns Hopkins Guide to Literary Theory

The Guide consists of 226 alphabetically arranged entries on individual critics and theorists, critical and theoretical schools and movements, and the critical and theoretical innovations of specific countries and historical periods.

 [Go to Johns Hopkins Guide to Literary Theory](#)

Journal Citation Reports (JCR)

Journal performance metrics offer a systematic, objective means to critically evaluate the world's leading journals ##Delivers quantifiable statistical information based on citation data ##Helps determine a publication's impact and influence in the global research community ##Includes journal and category data

 [Go to Journal Citation Reports \(JCR\)](#)

JSTOR

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR](#)

JSTOR African American Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR African American Studies](#)

JSTOR African Studies

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 [Go to JSTOR African Studies](#)

JSTOR Anthropology

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Anthropology](#)

JSTOR Archaeology

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 [Go to JSTOR Archaeology](#)

JSTOR Asian Studies

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 [Go to JSTOR Asian Studies](#)

JSTOR Biological Sciences

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Biological Sciences](#)

JSTOR Business

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Business](#)

JSTOR Classical Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Classical Studies](#)

JSTOR Philosophy

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Philosophy](#)

JSTOR Political Science

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Political Science](#)

JSTOR Population Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Population Studies](#)

JSTOR Slavic Studies

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Slavic Studies](#)

JSTOR Sociology

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Sociology](#)

JSTOR Statistics

JSTOR (www.jstor.org) is a not-for-profit organization with a dual mission to create and maintain a trusted archive of important scholarly journals, and to provide access to these journals as widely as possible. Content in JSTOR spans many disciplines, primarily in the humanities and social sciences. For complete lists of titles and collections, please refer to <http://www.jstor.org/about/collection.list.html>.

 [Go to JSTOR Statistics](#)

Kirk-Othmer Encyclopedia of Industrial Chemistry

The Kirk-Othmer Encyclopedia of Chemical Technology is a major reference resource for chemistry, chemical engineering, and related disciplines. It contains substantial articles on topics in these areas and has extensive bibliographies that accompany the articles.

 [Go to Kirk-Othmer Encyclopedia of Industrial Chemistry](#)

Knovel (engineering and science handbooks)

Knovel contains over 800 engineering and science handbooks, and related databases. The system has interactive capabilities that provide analytical tools to analyze the data they contain and produce tables and graphs.

 [Go to Knovel \(engineering and science handbooks\)](#)

Kraus Curriculum Development Library(KCDL)Online

Kraus Curriculum Development Library (KCDL) Online is the premier searchable database of retrospective and current collections of curriculum guides, lesson plans, frameworks, standards, and teaching practices for PreK-12, and Adult Basic Education. Information in the database covers all disciplines, subjects, and grade levels found in PreK through 12th grade education and Adult Basic Education.

 [Go to Kraus Curriculum Development Library\(KCDL\)Online](#)

Lancaster Farming

Lancaster Farming is one of Pennsylvania's most popular farming newspapers and celebrated its 50th anniversary in November 2005.

 [Go to Lancaster Farming](#)

Latinobarometro

An annual public opinion survey that involves interviews in 18 Latin American countries, representing more than 400 million inhabitants. Topics covered include: Economy and International Trade; Integration and Trade Agreements; Political Democracy and Social and Political Institutions; Distribution of Wealth; Civic Culture; Social Capital and Participation; Environment; Gender and Discrimination; Current Topics

 [Go to Latinobarometro](#)

LegalTrac

Gale Group Infotrac database for research in case law, government regulations, the practice of law, statutes, taxation and international law. Covers all major law reviews, and specialty law and bar association journals.

 [Go to LegalTrac](#)

LexisNexis Academic

Provides access to a wide range of news, business, legal, and reference information. Covers many news sources for 20 years. Court cases and statutes from all federal and state jurisdictions are included. Most resources can be searched in full text.

 [Go to LexisNexis Academic](#)

LexisNexis Congressional

LexisNexis Congressional Universe provides access to the best web resources for congressional and legislative information. This includes services available only to Penn State Users only, such as Congressional Universe (1789-to date) as well as other free services that provide similar or related information such as Thomas (1993-to date) and GPO Access (1993-to date). ##The Guided Tour provides a step-by-step approach to congressional and legislative information for users who have never done research of this type before. ##Updates: Continuous.

 [Go to LexisNexis Congressional](#)

LexisNexis State Capital

State Capital Universe is the world's most comprehensive access to state government information. The service provides access to: state bills and laws; constitutions; proposed and enacted regulations; newspapers of record; articles about legislative issues affecting the states; legislature membership. Users can search for information about one state, any combination of states, or all 50 states from a single source

 [Go to LexisNexis State Capital](#)

LexisNexis Statistical

Statistical Universe is a powerful index to statistics and data contained in federal agency government publications. It duplicates all American Statistics Index (ASI) abstract and index records (with monthly updates). In addition, it also links to 800 full-text documents published since 1994 and stored on LEXIS, and links to 2,000 publications on federal agency Web sites. The University Library owns most of these collections in paper or microfiche format that do not contain full-text links. ASK for assistance locating information at any University Library Service Desk. The abstracts of all publications covered by ASI in 1996-97 include active links to agency Web sites where the full-texts can be accessed. The primary purpose of these links is to supplement the coverage of Statistical Universe as its full-text coverage expands. The links also enable users to explore an agency's Web site.

 [Go to LexisNexis Statistical](#)

LGBT Life

GLBT Life is the premier resource to the world's literature regarding gay, lesbian, bisexual and transgender issues. Designed for academic, professional and public communities, this database contains indexing and abstracts for GLBT-specific core periodicals. The database includes current coverage of these sources, as well as deep backfiles for key publications - many back to the first published issue. Examples of publications indexed back to their inaugural issues include The Advocate (1967), Journal of Homosexuality (1974) and Harvard Gay and Lesbian Review (1994). GLBT Life provides comprehensive coverage of traditional academic, cultural, lifestyle and regional publications, including Journal of Bisexuality, Gay Times, Lesbian News, Journal of Lesbian Studies, Washington Blade, Bay Area Reporter, etc. In addition, other source-types such as monographs and reference books as well as grey literature including newsletters, case studies, dissertations, etc. are represented. Disciplines covered by GLBT Life include civil liberties, culture, employment, family, history, psychology, religion, sociology and more.

 [Go to LGBT Life](#)

Libraries by Geographic Location

Lists different types of libraries by geographic location.

 [Go to Libraries by Geographic Location](#)

Library and Information Science Abstracts (LISA)

Identifies articles on librarianship, information science, and related fields. Includes many related areas such as publishing, and applications of information technology in specific fields. The database abstracts over 550 periodicals from more than 60 countries and in over 20 different languages.

 [Go to Library and Information Science Abstracts \(LISA\)](#)

Library, Information Science & Technology Abstracts

Library Literature is an index to journal articles, books, pamphlets, and theses on library and information science published since December 1984. It also indexes editorials that appear as regular features in library science journals, along with book reviews that appear as part of review articles. One can search Library Literature by author, title, subject, or words anywhere in the indexed items records. Searches can be limited by the language or the publication year of the sources. Help screens are available for each function of the database.

 [Go to Library, Information Science & Technology Abstracts](#)

Library Literature and Information Science

Library Literature is an index to journal articles, books, pamphlets, and theses on library and information science published since December 1984. It also indexes editorials that appear as regular features in library science journals, along with book reviews that appear as part of review articles. One can search Library Literature by author, title, subject, or words anywhere in the indexed items records. Searches can be limited by the language or the publication year of the sources. Help screens are available for each function of the database.

 [Go to Library Literature and Information Science](#)

Library of Congress Online Catalog

The Library of Congress Online Catalog is a database of books, serials, computer files, manuscripts, cartographic materials, music, sound recordings, and visual materials in the Library's collections.

 [Go to Library of Congress Online Catalog](#)

Library of Latin Texts

CLCLT is the world's leading database for Latin texts. It contains texts from the beginning of Latin literature (Livius Andronicus, 240 BC) through to the texts of the Second Vatican Council (1962-1965). It covers all the works from the classical period, the most important patristic works, a very extensive corpus of Medieval Latin literature as well as works of recent Latin literature. The complete works of writers such as Cicero, Virgil, Augustine, Jerome, Gregory the Great, Anselm of Canterbury, Bernard of Clairvaux and Thomas a Kempis can thus be consulted. The texts have been taken from the Corpus Christianorum series and from many other leading editions.

 [Go to Library of Latin Texts](#)

Linguistics and Language Behavior Abstracts

The definitive database on the nature and use of language, Linguistics and Language Behavior Abstracts covers three fundamental areas: research in linguistics (the nature and structure of human speech); research in language.

 [Go to Linguistics and Language Behavior Abstracts](#)

Literary Theory

Literary Theory traces the history of literary theory and criticism from Plato to the present. It contains over 800 works by more than 350 writers. Among the works included are: formal treatises on criticism, essays and manifestos, literary prefaces, theories of imagination, taste and aesthetics, and major examples of contemporary theory.

 [Go to Literary Theory](#)

Literature Online Fulltext

With over a third of a million full-text works of poetry, prose and drama in English, together with the definitive online criticism and reference library, Literature Online is the world's largest cross-searchable database of literature and criticism.

 [Go to Literature Online Fulltext](#)

LLMC Digital

LLMC Digital is a service that makes available online many of the law and law-related materials on microfiche published by the Law Library Microform Consortium. The current online collection includes U.S. federal executive, legislative, and judicial materials, as well as selected materials from state and foreign jurisdictions.

 [Go to LLMC Digital](#)

London Times (Palmer's Index) 1790-1905

Palmer's Index to The Times contains records from the 461 printed volumes of Palmer's Index to the London Times newspaper. Articles can be located by broad subject headings, date of publication, or title keywords. Obituaries are under the heading "Deaths". For articles after 1905 consult the print volumes for the Official Index to the Times, available in the Microforms and Newspapers Library, Ground Floor West

Pattee (Call # A121.T46). The text of the Times is on microfilm, Call # Microfilm E200

 [Go to London Times \(Palmer's Index\) 1790-1905](#)

Making of Modern Law

"The Making of Modern Law: Legal Treatises 1800-1926" is a full-text collection of Anglo-American Legal Treatises. It allows full-text searching of more than 21,000 works including casebooks, local practice materials, form books, manuals, letters, speeches, and more.

 [Go to Making of Modern Law](#)

Materials Business File

Covers technical and commercial developments in iron and steel, nonferrous metals, composites, plastics, etc. Over 1,300 publications including magazines, trade publications, financial reports, dissertations, and conference proceedings are reviewed for inclusion.

Concentrates on the commercial aspects of materials science rather than on the scientific; however, new technologies, new alloys, and new materials announced by the trade press are included, along with other industry developments.

 [Go to Materials Business File](#)

Materials Science

These databases provide access to the worldwide literature of materials science and engineering. The collection includes six databases: (1) METADEX (otherwise known as "Metals Abstracts") (2) Engineered Materials Abstracts (3) Materials Business File (4) Mechanical Engineering Abstracts (5) WELDASEARCH (6) World Ceramics Abstracts. Coverage varies among the databases with the oldest coverage dating from 1966 to date. Access is provided via Cambridge Scientific Abstracts. Current edition. Updates: Continuous

 [Go to Materials Science](#)

MathSciNet

MathSciNet is a comprehensive database covering the world's mathematical literature of the past 61 years. It provides Web access to reviews and bibliographic data from Mathematical Review and Current Mathematical Publications. It provides links to original articles and free access to Featured Reviews.

 [Go to MathSciNet](#)

MBS ONLINE (International Statistics)

Economic, industrial, trade, and population statistics (monthly or quarterly) from more than 200 countries. Data may be graphed, printed, or downloaded. Compiled by the United Nations.

 [Go to MBS ONLINE \(International Statistics\)](#)

MD Consult

MD-Consult is a searchable collection of full text medical reference books, journals, drug information, peer-reviewed clinical practice guidelines and customizable patient education materials. Although originally designed for physicians, nurses, pharmacists, physician assistants and other allied health professionals will also find it useful.

 [Go to MD Consult](#)

Medianet (Penn State's audiovisual database)

Lists the films and videotapes which are available in the University's Media & Technology Support Services collection. Use this database to identify information about specific items in the collection and determine their availability. For faculty or rental scheduling of audiovisual materials in the collection: At University Park, call 863-3202 or 865-6314 or fax 863-2574 to schedule a film or video. At a Penn State College Campus, contact the instructional services specialist for more information. Non-local rental customers should call (800) 826-0132. Current collection. Updates: Continuous. Coverage: Films and Videos from the University's collection

 [Go to Medianet \(Penn State's audiovisual database\)](#)

Mental Measurements

The database covers more than 2,200 commercially-available tests in categories such as personality, developmental, behavioral assessment, neuropsychological, achievement, intelligence and aptitude, educational, speech & hearing, and sensory motor.

 [Go to Mental Measurements](#)

MergentOnline (company information)

MergentOnline (formerly FISonline) is a subscription-based service offering information on over 15,000 U.S. public companies and 30,000 non-U.S. public companies. MergentOnline is produced by Mergent, Inc., formerly known as Moody's. Mergent/Moody's is a publisher of detailed business descriptions, corporate histories and financial statements since 1900.

 [Go to MergentOnline \(company information\)](#)

MERLOT (Multimedia Educational Resources for Learning and Online Teaching)

The Multimedia Educational Resource for Learning and On-Line Teaching (MERLOT) is a high quality collection of interactive learning materials, assignments, reviews, and people.

 [Go to MERLOT \(Multimedia Educational Resources for Learning and Online Teaching\)](#)

METADEX (metals)

Provides comprehensive coverage of international metals literature. The Metals Abstracts portion of the file includes references to about 1,200 primary journal sources. Alloys Index supplements Metals Abstracts by providing access to the records through commercial, numerical, and compositional alloy designations; specific metallic systems; and intermetallic compounds found within these systems. Informative abstracts are included for most records since 1979.

 [Go to METADEX \(metals\)](#)

Meteorological & Geostrophysical Abstracts

Meteorological & Geostrophysical Abstracts (MGA) contains records drawn from the World's literature on meteorology, climatology, atmospheric chemistry and physics, astrophysics, hydrology, glaciology, physical oceanography and environmental sciences. Summaries from over 600 journal titles, as well as conference proceedings, books, technical reports and other monographs, are included. Each record includes complete citation information, Universal Decimal Classification subject classifications, and subject descriptors drawn from the MGA Controlled Vocabulary. MGA is produced by the American Meteorological Society and is published by CSA.

 [Go to Meteorological & Geostrophysical Abstracts](#)

Michigan State University Library Catalog

 [Go to Michigan State University Library Catalog](#)

MicroFinder

This web site provides access to over 500 collections and 500 newspapers that are available in the News and Microforms Library of the

Penn State University Libraries. BOOK, JOURNAL, MANUSCRIPT, ARCHIVE, AND ORAL HISTORY COLLECTIONS. ##This web site provides alphabetical, subject, and chronological access to descriptions of over 500 collections. For each collection, the following information is given: title of the collection, microform call number, title and call number of the guide, number of microform units, description of the collection, and list of subject headings. The descriptions include, where appropriate, biographical information for individuals or information on groups or organizations, location of the original materials, types of materials included, and a description of subject content. The descriptions are adapted from information in the various guides, information in the National Union Catalog of Manuscript Collections, or information at the beginning of the first reel/fiche. Many of the descriptions were authored by Sandra Romanow (1982 guide), Lynn Vacca, Philip Frigm, and Jack Pontius. Susan Lieberman helped greatly in the editing of the original printed guide. The web version was edited by Cliff Hughes. ## ##NEWSPAPERS Among the most important and heavily used materials in the Microforms Collection are backfiles of about 500 newspapers. However, it is sometimes difficult to determine what newspapers are available for various cities or countries or for various time periods. While most titles are cataloged in The CAT, the Penn State Libraries online catalog, The CAT does not provide geographical or chronological access. ##This web site allows you to search the Microforms Newspaper Collections: Alphabetically

 [Go to MicroFinder](#)

Middle English Compendium

Provides access to and interconnectivity between three major Middle English electronic resources: an electronic version of the Middle English Dictionary, a HyperBibliography of Middle English prose and verse, based on the MED bibliographies, and a Corpus of Middle English Prose and Verse, as well as links to an associated network of electronic resources.

 [Go to Middle English Compendium](#)

Middle English Dictionary

Its 15,000 pages offer a comprehensive analysis of lexicon and usage for the period 1100-1500, based on the analysis of a collection of over three million citation slips, the largest collection of this kind available. This electronic version of the MED preserves all the details of the print MED, but goes far beyond this, by converting its contents into an enormous database, searchable in ways impossible within any print dictionary.

 [Go to Middle English Dictionary](#)

Mintel Reports

Mintel publishes market research reports for the U.S. and European consumer markets. Reports analyze market drivers, trends, market forecasts, market segmentations, demographics, and consumer attitudes and purchasing behaviors. Mintel publishes over 600 reports each year.

 [Go to Mintel Reports](#)

Mira Lloyd Dock Forestry Lantern Slides Collection

This collection includes 468 glass lantern slides dating from 1897 to about 1902, apparently used by Mira Lloyd Dock in her lectures at the Mont Alto Forestry School. Many of these photos were taken at Wetzel's Swamp near Harrisburg (now Wildwood Park) but other states and European sites are also represented. Most are black and white, but a few of the slides of plants were beautifully hand-colored. The collection provides an interesting perspective on ecology a century ago and a view of the broad interests of Dock, who was a noted champion for the city beautiful movement and for the restoration of Pennsylvania's forests as well as the first woman to be appointed by a Pennsylvania governor.

 [Go to Mira Lloyd Dock Forestry Lantern Slides Collection](#)

MIT CogNet

MIT CogNet, the Cognitive and Brain Sciences Community Online, provides access to a searchable, full-text library of books, journals, and reference works from the MIT Press, as well as content and links to resources from other publishers, professional associations, institutions, and individuals. Additional features are conference materials, a directory of cognitive science programs, threaded discussion groups, job listings and other career information, and more.

 [Go to MIT CogNet](#)

MLA International Bibliography

The MLA International Bibliography contains more than 1.7 million records for books and articles published on modern languages, literatures, folklore, and linguistics.

 [Go to MLA International Bibliography](#)

MRS Online Proceedings Library (Materials Research Society)

The MRS Proceedings Library includes over 20,000 peer-reviewed papers presented at Materials Research Society meetings primarily since 2000.

 [Go to MRS Online Proceedings Library \(Materials Research Society\)](#)

Music Audio

Music audio is available to Penn State University students, faculty, and staff through the following resources provided by the University Libraries. ## ##Classical Music Library ##Classical Music Library streams classical music from a collection of over 30,000 tracks, with 2,000 new tracks added each month, supplemented by extensive reference materials such as program notes and composer biographies. The musical content is sourced from a variety of publishers. To listen from a PC with Internet Explorer, your computer needs Windows Media Player 7 or higher, and Macromedia Flash Player 6 or higher. To listen from an Apple Macintosh or from a PC with Netscape, your computer needs Macromedia Flash Player 6 or higher. ## ## ##Naxos Music Library ##Naxos Music Library streams music from the complete Naxos, Marco Polo, and Dacapo record catalogs of over 85,000 tracks: mostly classical music, with some jazz, world, and folk music. While listening, users can read notes on the works being played as well as biographical information on composers and artists. To listen from a PC, your computer needs Internet Explorer and Windows Media Player 9. To listen from an Apple Macintosh, your computer needs either OS 8.6 with MS IE 5.1 and Media Player 7.1, or OS X 10.2.8 with MS IE 5.2 and Media Player 9.

 [Go to Music Audio](#)

Music Index Online

The Music Index Online indexes articles in 670 international music journals and magazines. The list of journals indexed by The Music Index Online is at <http://www.harmonieparkpress.com/period.a.html> Coverage: 1979-current

 [Go to Music Index Online](#)

NASA ADS (Astrophysics Data System)

The Astrophysics Data System (ADS) is a NASA-funded project whose main resource is an Abstract Service, which includes four sets of abstracts: ## ##1) astronomy and astrophysics ##2) instrumentation ##3) physics and geophysics ##4) Los Alamos preprint server ## ##Each dataset can be searched by author, object name (astronomy only), title, or abstract text words. ## ##In addition, the abstract service includes links to the full text of articles appearing in most of the major astronomical journals.

 [Go to NASA ADS \(Astrophysics Data System\)](#)

NASA Technical Report Server

Includes the full text and bibliographic records of selected NASA-sponsored technical reports. ##Coverage: NASA-sponsored technical reports; dates vary

 [Go to NASA Technical Report Server](#)

Nation Archive Premium Edition

Magazines for Libraries, (12th ed.) says of The Nation "Proud of being a 'Wholly owned subsidiary of our own conscience' rather than a publication from a media conglomerate...[and] is one of the most openly left-wing publications in existence. That does not mean that it will not criticize where criticism may be due, including its partisans and fellow left-leaning publications, though naturally its best shots tend to be aimed at its ideological opposites. The writing is crisp and conse, a joy to read. The multiple short editorials at the beginning of each issues cover a wide range of topics, from the recent developments in cloning to the status of the publishing industry." The Nation serves as an important historical window on the United States--its policies, its people, and events.

 [Go to Nation Archive Premium Edition](#)

National Agricultural Library Digital Repository (NALDR)

The National Agricultural Library Digital Repository(NALDR) provides access to historic publications of the Department of Agriculture either digitized by NAL or through NAL's partnerships with other institutions.

 [Go to National Agricultural Library Digital Repository \(NALDR\)](#)

National Criminal Justice Reference Service (NCJRS)

The National Criminal Justice Reference Service Abstracts Database contains summaries of more than 150,000 publications on criminal justice, including Federal, state, and local government reports, books, research reports, journal articles, and unpublished research. Subject areas include corrections, courts, drugs and crime, law enforcement, juvenile justice, crime statistics, and victims of crime. ##Coverage: The time period covered is from the early 1970's to the present.

 [Go to National Criminal Justice Reference Service \(NCJRS\)](#)

National Journal

Full-text of key magazines, newsletters, books and directories from the National Journal Group. Focused on government, politics, and public policy. Includes general public policy as well as focused publications on health policy and technology policy. ##Publications include: ##The National Journal - weekly journal on politics and government ## ##Congress Daily (twice daily covering Congressional activity) ##Hotline (campaign info) ##Government Executive (monthly) ##American Health Line (daily) ##Technology Daily ##Almanac of American Politics ##Poll Track -- polls related to government, politics, & public policy

 [Go to National Journal](#)

NBER Working Papers

Founded in 1920, the National Bureau of Economic Research is a private, nonprofit, nonpartisan research organization dedicated to promoting a greater understanding of how the economy works. The NBER is committed to undertaking and disseminating unbiased economic research among public policymakers, business professionals, and the academic community.

 [Go to NBER Working Papers](#)

netLibrary (full text e-books)

netLibrary provides access to a PALCI-shared collection of electronic books. Access to a title is limited to one concurrent user at a time.

 [Go to netLibrary \(full text e-books\)](#)

New Pauly Online

Brill's New Pauly and Der Neue Pauly have become a recognized standard reference work for students and scholars of the ancient world. Now, the complete original Der Neue Pauly together with Brill's New Pauly are offered online. New Pauly Online will allow the researcher to have the most complete database available. New Pauly Online is automatically updated whenever a new volume is published.

 [Go to New Pauly Online](#)

New Testament Abstracts

New Testament Abstracts Online is a product of a partnership between ATLA and the Weston Jesuit School of Theology. The database has become an indispensable research and bibliographic aid for scholars, librarians, clergy and students of the New Testament and its historical milieu. The database contains more than 38,000 article abstracts, 1,200 review abstracts, 13,500 book abstracts, and 50 software abstracts.

 [Go to New Testament Abstracts](#)

New York Review of Books

From Magazines for Libraries (Mar 22, 2007) ##To browse the archives of the New York Review of Books is to view a Who's Who of contemporary American literature and culture; its inaugural issue, for example, included contributions from Susan Sontag, Norman Mailer, Gore Vidal, John Berryman, Robert Lowell, Adrienne Rich, and William Styron. Stimulating essays on current topics, lengthy reviews by and about major authors, and original poetry comprise the core of this highly regarded publication. ##The online archive provides the full text of articles, searchable by date, author, keyword, and other fields.

 [Go to New York Review of Books](#)

New York Times Historical (1851-2005) (Digital Archive)

Includes a digitized image of every backfile issue of The New York Times from cover to cover, including news stories, editorials, photos, graphics, and advertisements. Searchers can use basic keyword, advanced, guided, and relevancy search techniques to locate information. Or, they can browse through issues page by page, as one would browse a printed edition. Search results lists provide bibliographic information, including date, issue, article headline, page number, and byline (where given). Users may choose to display the full page image of any page in any issue.

 [Go to New York Times Historical \(1851-2005\) \(Digital Archive\)](#)

NewsBank--America's Newspapers

The electronic editions of record for valuable local, regional, and national newspapers--all in one easy-to-search database. Each paper provides unique coverage of local and regional news, including companies, politics, sports, industries, cultural activities, and people in the community.

 [Go to NewsBank--America's Newspapers](#)

Newspaper Photos (AccuNet/AP Photo Archive)

An average of 800 state, regional, national and international photos are added daily to the AP Photo Archives. After a year, approximately 200 of the best daily photos are retained permanently. ##The Photo Archive's historical collection continues to grow, featuring images from significant news and features events of the 20th century. The earliest photograph available is a photograph of Abraham Lincoln taken in 1844. ##Permitted uses of these images include: 1. printing copies for educational and research use; 2. creating PowerPoint presentations, slides, and multimedia presentations when usage is confined to the licensed institution; 3. posting on a secure web site available only to authorized users; 4.e-mailing single images to an individual e-mail recipient.

 [Go to Newspaper Photos \(AccuNet/AP Photo Archive\)](#)

NewsStand E-Image Newspapers

Read, browse, search daily issues of Al-Hayat, Die Welt, Le Monde, El Pais newspapers.

 [Go to NewsStand E-Image Newspapers](#)

Nineteenth - Century Fiction

A collection of 250 British and Irish novels from the period 1782 to 1903, stretching from the golden age of Gothic fiction to the Decadent and New Woman novels of the 1890s. Major novelists of the period such as Austen, Scott, Mary Shelley, Dickens, Eliot, Hardy and the Brontës feature alongside popular romances, sensation fiction, colonial adventure novels and children's literature.

 [Go to Nineteenth - Century Fiction](#)

Nineteenth Century U.S. Newspapers

Full-text database containing digital facsimile images of newspapers; presented as full page layout as well as single articles; advertisements and illustrations included. This collection includes numerous newspapers from a range of urban and rural regions throughout the U.S.

 [Go to Nineteenth Century U.S. Newspapers](#)

NLM Gateway (National Library of Medicine)

The NLM Gateway is a Web-based system that lets users search simultaneously in multiple retrieval systems at the U.S. National Library of Medicine (NLM). The resources the Gateway searches include consumer health information, journal citations, the National Library of Medicine's library catalog, meeting abstracts and toxicology resources. Gateway now

Accesses: [MEDLINE@PubMed](#) -- catalog information for books, serial titles,

[audiovisuals](#) -- full text biomedical books -- [Special -- toxicology citations](#) -- [Developmental and Reproductive Toxicology](#) -- Meeting abstracts on HIV/AIDS, health services research, and space life

sciences -- [consumer health information](#) -- [ClinicalTrials.gov](#) -- information for the public about clinical

trials -- [Directory of Health Organizations](#) -- [Genetics Home Reference](#) -- consumer information for

genetic conditions -- [Household Products Database](#) -- [HSRProj](#) -- health services research projects -- [OMIM](#) --

Online Mendelian Inheritance in Man -- [Hazardous Substances Data Bank](#) -- [Integrated Risk](#)

Information System -- [International Toxicity Estimates for Risk](#) -- [GENE-TOX](#) -- Genetic Toxicology

(Mutagenicity) -- [Chemical Carcinogenesis Research Information System](#) -- [Profiles in Science](#) -- archives of

several prominent biomedical scientists -- [Metathesaurus](#) -- [Learn More about the Gateway at:](#)

<http://www.nlm.nih.gov/pubs/factsheets/gateway.html>

 [Go to NLM Gateway \(National Library of Medicine\)](#)

North American Women's Letters and Diaries

North American Women's Letters and Diaries includes approximately 100,000 pages of published letters and diaries from individuals writing from Colonial times to 1950 plus 4,000 pages of previously unpublished materials. Drawn from more than 1,000 sources, including journal articles, pamphlets, newsletters, monographs, and conference proceedings, much of the material is in copyright. Represented are all age groups and life stages, all ethnicities, many geographical regions, the famous and the not so famous. More than 1,500 biographies will enhance the use of the database. The collection includes one of the most comprehensive bibliographies of women's diaries and letters yet published. It lists over 2,000 published and unpublished items from a variety of sources, including online resources and microform.

 [Go to North American Women's Letters and Diaries](#)

Northwestern University Library Catalog (NUcat)

 [Go to Northwestern University Library Catalog \(NUcat\)](#)

NoveList

NoveList is a readers' advisory service database that lists over 100,000 titles, contains 75,000 full text reviews, and includes over 36,000 subject headings, offering a wide range of resources that will serve readers of fiction. The product's "Find a Favorite Author" or "Find a Favorite Title" feature permits users to locate lists of books in their favorite fiction areas. NoveList will be linked to the ACCESS PENNSYLVANIA Database so that library users can check to see which libraries own a copy of a book described in NoveList, and link from the ACCESS PENNSYLVANIA Database to descriptions and reviews in NoveList.

 [Go to NoveList](#)

NTIS

NTIS is the preeminent resource for accessing the latest US government sponsored research, and worldwide scientific, technical, engineering and business related information. Coverage: 1964-present.

 [Go to NTIS](#)

Oceanic Abstracts

Oceanic Abstracts is focused exclusively on worldwide technical literature pertaining to the marine and brackish-water environment. The journal has long been recognized as a leading source of information on topics relating to oceans. The journal focuses on marine biology and physical oceanography, fisheries, aquaculture, non-living resources, meteorology and geology, plus environmental, technological, and legislative topics. This journal is totally comprehensive in its coverage of living and non-living resources, meteorology and geology, plus environmental, technological, and legislative topics.

 [Go to Oceanic Abstracts](#)

O'Connor Yeager Collection

A collection of printed Pennsylvania town views, portraits, maps, and historical scenes. Through a combination of donation and purchase from the collectors John C. O'Connor and Ralph M. Yeager, this collection of 330 prints came to the Palmer Museum of Art in 1986. It includes lithographs, engravings, aquatints, photogravures, and woodcuts created by artists of the late eighteenth, nineteenth, and early twentieth centuries. These prints offer a unique glimpse into Pennsylvania's past.

 [Go to O'Connor Yeager Collection](#)

Odum Institute's Public Opinion Poll Question Database

The Odum Institute maintains one of the oldest archives of polling data in the United States and is the exclusive repository for Louis Harris public opinion data. The Odum Institute's Public Opinion Poll Question Database allows users to search for specific poll questions from more than 230,000 questions in the Institute's archive. It also provides access to data files.

 [Go to Odum Institute's Public Opinion Poll Question Database](#)

Ohio State University Library Catalog

 [Go to Ohio State University Library Catalog](#)

Old English Corpus

The Corpus contains all surviving Old English material, excluding variant texts. Altogether there are over three thousand different texts.

 [Go to Old English Corpus](#)

Old Testament Abstracts

Old Testament Abstracts Online is a product of a partnership between ATLA and the Catholic Biblical Association. The database features

indexing and abstracts for journal articles, monographs, multi-author works, and software related to Old Testament studies. Topics covered include antiquities, archaeology, biblical theology, philology and much more.

 [Go to Old Testament Abstracts](#)

Opposing Viewpoints Resource Center

Opposing Viewpoints Resource Center provides research and background information on social issues. The database contains the essays from the Opposing Viewpoints series, supplemented by, statistics, primary documents, links to websites, and full-text magazine and newspaper articles. ##Keywords: hot topics, current events, social issues, social trends, English 15, CAS 100, background information, general interest, contemporary issues, overviews

 [Go to Opposing Viewpoints Resource Center](#)

Oral History Online

Oral History Online is an index to interviews conducted at institutions around the world. The database records describe the contents of the oral histories. Textual transcripts, audio, and/or video are provided for selected interviews. Information on materials that are not online can be obtained by contacting the owning institution indicated in the database.

 [Go to Oral History Online](#)

OT BibSys (Occupational Therapy Bibliographic System)

OT BibSys is a bibliographic database covering the literature of occupational therapy and related subject areas, such as rehabilitation, education, psychiatry or psychology, and health care delivery or administration. The full text of the indexed resources is not in this database, just the bibliographic information to identify the material and the author's abstract when one exists.

 [Go to OT BibSys \(Occupational Therapy Bibliographic System\)](#)

Oxford African-American Studies Center

African American Studies Center The AASC features the new, three-volume Encyclopedia of African American History 1619-1895, published by Oxford in 2006; the three-volume Black Women in America, Second Edition, edited by Darlene Clark Hine in 2005, the highly acclaimed five volume Africana: the encyclopedia of the African and African American experience The Center also includes content from much-anticipated forthcoming print publications including the African American National Biography project (estimated at 8 volumes), edited by Henry Louis Gates, Jr., scheduled for publication in 2008; and the Encyclopedia of African American Art and Architecture, due for publication 2007. In addition to these major reference works, AASC offers other key resources from Oxford's reference program, including the Concise Oxford Companion to African American Literature and selected articles from other reference works.

 [Go to Oxford African-American Studies Center](#)

Oxford Art Online (Dictionary of Art)

Grove Art Online provides Web access to the entire text of The Dictionary of Art with quarterly additions of new material and updates to the text, plus extensive image links and all the sophisticated search advantages possible with an online reference source.

 [Go to Oxford Art Online \(Dictionary of Art\)](#)

Oxford Dictionary of National Biography

An illustrated collection of 50,000 specially written biographies of noteworthy men and women who shaped Britain's past, from the fourth century BC to the year 2000

 [Go to Oxford Dictionary of National Biography](#)

Oxford English Dictionary

Traces the usage of words through 2.5 million quotations from a wide range of International English language sources.

 [Go to Oxford English Dictionary](#)

Oxford Reference Online

Oxford Reference Online consists of a wealth of facts, figures, definitions, and translations found in dictionary, language reference, and subject reference works published by Oxford University Press.

 [Go to Oxford Reference Online](#)

OxResearch

A "first draft of history" as it occurs. Provides succinct analytical articles covering world and regional economic and political developments of major significance. Evaluates issues and events within a coherent political, social, and economic framework. Contains objective, multi-disciplinary articles compiled by an extensive international network of over 1,000 faculty members at Oxford and other leading universities around the world, as well as think-tanks and institutes of international standing.

 [Go to OxResearch](#)

PapersFirst (Conference Papers)

PapersFirst provides access to papers presented at conferences worldwide. ##Coverage: Oct. 1993+. Updates: bi-weekly (24 times per year)

 [Go to PapersFirst \(Conference Papers\)](#)

Past Masters (full text philosophy books)

Past Masters encompasses the largest collection of full-text electronic editions in philosophy in the world. The series includes important works in the history of political thought and theory, religious studies, economics, classics, history, and German studies. The databases are based on excellent editions, in both original language and in English translation, using meticulous text conversion processes. Combined with powerful web-based search and reference tools, the Past Masters series provides scholars with significantly-enhanced and highly-flexible access to the classic texts of philosophy.

 [Go to Past Masters \(full text philosophy books\)](#)

Patents, U.S. and Foreign

This page describes several of the most useful databases for searching patents on the Web. Direct links are provided to sources of U.S. Patent & Trademark Office, European Patent Office and Japanese Patent Office search pages.

 [Go to Patents, U.S. and Foreign](#)

Peace Research Abstracts

Covers essential areas related to peace research, including conflict resolution, international affairs, peace psychology, Genocide, human rights, international law, refugees voluntary and nongovernmental organizations, armed conflicts, civil wars, territorial disputes, terrorism, counterterrorism, democratisation, migration, arms control, peackeeping, peacebuilding, humanitarian aid, cultural relations, race relations, interpersonal violence, ethnic relations, race relations, and other areas of key relevance to the discipline.

 [Go to Peace Research Abstracts](#)

Penn State Electronic Theses and Dissertations

Provides access to Penn State electronic theses and dissertations.

 [Go to Penn State Electronic Theses and Dissertations](#)

Penn State University Libraries Web Site

The Pennsylvania State University Libraries' web page.

 [Go to Penn State University Libraries Web Site](#)

Penn State University Web Site

The Pennsylvania State University's web page.

 [Go to Penn State University Web Site](#)

Pennsylvania Civil War Newspapers

Provides access to a selection of Pennsylvania newspapers published during the critical years before, during, and after the U.S. Civil War. The dates of coverage vary by the paper, some publications go back to the late 1840's, others extend beyond the Civil War into the early Reconstruction years. The digital reproductions include all words, photographs, and advertisements as well as an exact page image of the newspaper. For readers who prefer to see the newspapers intact, each issue can be browsed by date. In addition to national issues such as war, abolition, and slavery, readers will find many articles documenting political and social life on the homefront. These include topics such as recreational and social events, sports, prose, and local business and economic news.

 [Go to Pennsylvania Civil War Newspapers](#)

Pennsylvania Geology

Described in 1924 as "the most remarkable series of reports ever issued by any survey," the Second Geological Survey of Pennsylvania (1874-1889) produced an unprecedented volume and quality of geologic reports. With over 80 texts, nearly 600 accompanying maps and illustrations, a hand atlas, a six-volume grand atlas, and miscellaneous other publications, the Second Survey contains a treasure trove of geologic, economic and historic information about Pennsylvania during the Golden Age.

 [Go to Pennsylvania Geology](#)

Pennsylvania German BroadSides and Fraktur

This collection includes 148 manuscript and printed Pennsylvania German Fraktur, broadsides (sheets of paper printed on one side only, such as commentaries on religious texts and political events), and German-language newspapers. These documents provide us with insight into the everyday life of German immigrants and show the process of acculturation of German settlers to their new environment.

 [Go to Pennsylvania German BroadSides and Fraktur](#)

Pennsylvania History Pictorial Collections

This database provides access to digital images from three of Penn State's collections: The O'Connor/Yeager Collection: 19th- and early 20th-century prints depicting Pennsylvania from the Palmer Museum of Art. University Park Campus History Collection: Photos, drawings, and documents from the University Archives chronicling the growth of Penn State's Largest Campus. Mira Dock Forestry Lantern Slide Collection: Lantern slide images of early 20-century forest management from the collection at Penn State Mont Alto.

 [Go to Pennsylvania History Pictorial Collections](#)

Periodicals Archive Online

Periodicals Archive Online is the new name for PCI Full Text - an archive of hundreds of full-text journals published in the arts, humanities and social sciences. Though the focus is on the twentieth century, coverage of some titles dates to the eighteenth century.

 [Go to Periodicals Archive Online](#)

Periodicals Index Online

Periodicals Contents Index (PCI) is an electronic index to millions of articles published in over 4,250 periodicals in the humanities and social sciences.

 [Go to Periodicals Index Online](#)

Philosopher's Index

The Philosopher's Index is a bibliographic database with informative author-written abstracts covering scholarly research in the fifteen fields of philosophy, published in journals and books since 1940. The electronic version of The Philosopher's Index is available exclusively on SilverPlatter.

 [Go to Philosopher's Index](#)

Pike and Fischer Communications Regulation

Covers all of U.S. communications law regulations and full-text cases back to the mid-1960's. Also includes topical digests and an update service for recent developments in telecom law and significant new additions to decisions and other regulatory developments. The equivalent of the print source: Pike & Fisher Communications Regulation.

 [Go to Pike and Fischer Communications Regulation](#)

PILOTS (Published International Literature On Traumatic Stress)

The PILOTS database is sponsored by the U.S. Department of Veterans Affairs. Its goal is to include citations to all literature on post-traumatic stress disorder (PTSD) and other mental-health sequelae of traumatic events, without disciplinary, linguistic, or geographical limitations, and to offer both current and retrospective coverage.

 [Go to PILOTS \(Published International Literature On Traumatic Stress\)](#)

Plant Management Network

The Plant Management Network is a unique cooperative resource for the applied plant sciences. Designed to provide plant science practitioners fast electronic access to proven solutions, the Plant Management Network offers an extensive searchable database comprised of thousands of web-based resource pages from the network's partner universities, companies, and associations.

 [Go to Plant Management Network](#)

Plunkett Research Online (Industry information)

Plunkett Research Online provides industry reports covering industry sector analysis and research, industry trends and industry statistics, market research and trends, and company profiles.

 [Go to Plunkett Research Online \(Industry information\)](#)

PolicyFile (Public Policy Research & Analysis)

PolicyFile draws its content from public policy think tanks, university research programs, research organizations and publishers. Some well known contributors include: the American Enterprise Institute, Brookings Institution, Carnegie Endowment for International Peace, Cato

Institute, Center for Defense Information, Center for Strategic and International Studies, Council on Foreign Relations, Democratic Leadership Council, Economic Strategy Institute, Federation of American Scientists, Heritage Foundation, Hoover Institution, Hudson Institute, Institute for International Economics, International Monetary Fund, National Center for Policy Analysis, Organization for Economic Cooperation and Development, RAND Corporation, United States Institute of Peace, and the World Bank. Where available, access to home pages, electronic mail addresses and fulltext are made available within individual abstracts.

 [Go to PolicyFile \(Public Policy Research & Analysis\)](#)

Political Risk Yearbook

Country Reports on 106 countries. Gives political and economic risk analysis available. Each Country Report focuses specifically on political and business information: finding developing markets, determining currency movements, preparing for capital investments, or making judgments about corporate security.

 [Go to Political Risk Yearbook](#)

Polling the Nations

A searchable database of questions from more than 14,000 surveys conducted by more than 700 polling organizations in the United States and more than 80 other countries from 1986 to the present. Each of the nearly 350,000 records reports a question asked and the responses given. Also included in each record is the polling organization responsible for the work, the date the information was released, the sample size, and universe, i.e., the groups or areas included in the interview.

 [Go to Polling the Nations](#)

Pollution Abstracts

This database provides fast access to the environmental information necessary to resolve day-to-day problems, ensure ongoing compliance, and handle emergency situations more effectively. Pollution Abstracts combines information on scientific research and government policies in a single resource. Topics of growing concern are extensively covered from the standpoints of atmosphere, emissions, mathematical models, effects on people and animals, and environmental action in response to global pollution issues. To ensure comprehensive coverage, material from conference proceedings and hard-to-find documents has been summarized along with information from primary journals in the field.

 [Go to Pollution Abstracts](#)

Praeger Security International Online

Interdisciplinary and diverse in political perspective, Praeger Security International Online publishes material on international security, including defense and foreign policy, strategy, regional security, military history, and terrorism.

 [Go to Praeger Security International Online](#)

PressDisplay Electronic Image Databases

PressDisplay provides a global perspective on the World's events and news and is the most convenient and complete way to read all your favorite newspapers on one site. Users will gain access to newspapers from within the library, from home and around the world on the day they are published. Researchers will find convenient searching, a traditional 2-page newspaper view, table of contents, article jumps (linking article sections) and easy to read text views. PressDisplay can also provide translations into ten major foreign languages.

 [Go to PressDisplay Electronic Image Databases](#)

Professional Development Collection

The database provides a highly specialized collection of electronic information especially for professional educators. This collection offers information on everything from children's health and development to cutting-edge pedagogical theory and practice.

 [Go to Professional Development Collection](#)

Project Euclid (mathematics journals)

Project Euclid's mission is to advance effective and affordable scholarly communication in the field of theoretical and applied mathematics and statistics. Through a collaborative partnership arrangement, publishers join forces and participate in an online presence with advanced functionality while maintaining their quality, intellectual and economic independence, and commitment to affordable subscription prices. Since some electronic access is granted directly by the publisher (not Project Euclid), Penn State has access to most titles but not all. Check The CAT or "E-journals at Penn State" to confirm access to specific titles.

 [Go to Project Euclid \(mathematics journals\)](#)

Project Gutenberg

This collection is based on documents produced by Project Gutenberg. Founded by Michael Hart in 1971 with the aim of distributing a trillion (1,000,000,000) electronic literature files by the year 2001, Project Gutenberg has evolved into an on-going project to produce and distribute free electronic editions of literature. The literature carried by Project Gutenberg is typically out of copyright and includes many historically important documents (especially American ones) and much fine literature (Shakespeare, Dickens, etc). Project Gutenberg unashamedly aims at the low end of the quality-price spectrum, aiming to publish as many titles as possible for the lowest price rather than high-quality expensive editions.

 [Go to Project Gutenberg](#)

Project Muse

Project MUSE is a unique collaboration between libraries and publishers providing 100% full-text, affordable and user-friendly online access to high quality humanities, arts, and social sciences journals from scholarly publishers. MUSE began in 1993 as a pioneering joint project of the Johns Hopkins University Press and the Milton S. Eisenhower Library at JHU. Grants from the Mellon Foundation and the National Endowment for the Humanities allowed MUSE to go live with JHU Press journals in 1995. Journals from other publishers were first incorporated in 2000, with additional university press and scholarly society publishers joining in each subsequent year.

 [Go to Project Muse](#)

Prokaryotes

The Prokaryotes is an online, updated version of a comprehensive resource for the bacteria and the Archaea. This resource includes full-text chapters on all aspects of prokaryotic organisms, including biochemistry and ecophysiology, symbiotic associations, and biotechnology. It is updated incrementally in releases that expand or replace outdated chapters.

 [Go to Prokaryotes](#)

ProQuest (Multiple Databases)

indexes 5,000+ magazines, journals, and newspapers. It contains Full text (word file with no photos or tables) or images (looks like real paper publication) to over 2,000 journals, and Full text to 150+ newspapers. ProQuest (multiple databases) includes the following databases: ABI-Inform (business trade and research journals), Ethnic-NewsWatch, ProQuest Research Library (general and research journals), ProQuest Newspapers, Hoover's Company Records, ProQuest Nursing & Allied Health Source, and Dissertations & Theses. Keywords: news, new york times, current events, contemporary issues, hot topics, english 15, cas100.

 [Go to ProQuest \(Multiple Databases\)](#)

ProQuest Newsstand

Full text of 300+ U.S. and international news sources. Includes coverage of 150+ major U.S. and international newspapers such as The New

York Times and the Times of London, plus hundreds of other news sources and news wires.

 [Go to ProQuest Newsstand](#)

ProQuest Nursing Journals

A full text database subset of CINAHL, including only 300 full-text journals that are licensed to ProQuest. Coverage is typically from 1996, with a few titles prior to that date.

 [Go to ProQuest Nursing Journals](#)

ProQuest Research Library

The database includes more than 3,870 titles over 2,600 in full text from 1971 forward. It features a diversified mix of scholarly journals, trade publications, magazines, and newspapers in all subjects. keywords: current events, contemporary issues, hot topics, english 15, cas 100.

 [Go to ProQuest Research Library](#)

PsycARTICLES

PsycARTICLES is a database of full-text articles from journals published by the American Psychological Association, the APA Educational Publishing Foundation, the Canadian Psychological Association, and Hogrefe & Huber.

 [Go to PsycARTICLES](#)

PsycINFO 1872-current

PsycINFO provides access to international literature in psychology and related disciplines. Unrivaled in its depth of psychological coverage and respected worldwide for its high quality, the database is enriched with literature from an array of disciplines related to psychology such as psychiatry, education, business, medicine, nursing, pharmacology, law, linguistics, and social work. Nearly all records contain nonevaluative summaries, and all records from 1967 to the present are indexed using the Thesaurus of Psychological Index Terms. Practitioners, researchers, and students working in all areas of psychology, the behavioral sciences, and other related disciplines. PsycINFO includes psychological research and its applications; the database is of prime relevance to many industries and research establishments worldwide. The sources include over 1,400 professional journals, chapters, books, reports, theses and dissertations, published internationally. PsycINFO is a department of the American Psychological Association (APA) dedicated to creating products that make it easier for researchers to locate psychological literature relevant to their research topics. PsycINFO staff members locate and summarize psychologically relevant documents from a wide range of disciplines, and disseminate these summaries in forms suited to easy access and retrieval.

 [Go to PsycINFO 1872-current](#)

PubMed (Medline)

PubMed is a web interface that allows you to search MEDLINE, the National Library of Medicine's premier database of citations and abstracts for biomedical research articles. The core subject is medicine, but subject coverage also includes bioethics, biology, chemistry, dentistry, environmental health, genetics, gerontology, health care planning and administration, history of medicine, hospital administration, microbiology, nutrition, nursing (International Nursing Index), physiology, pre-clinical sciences, public health, sports medicine, veterinary medicine and zoology. MEDLINE covers over 4,800 journals published in the United States and 70 other countries. The database contains over 15 million citations dating back to 1950. Coverage is worldwide and updated weekly. Learn more about PubMed at: <http://www.nlm.nih.gov/pubs/factsheets/pubmed.html>. or Try the Tutorial at: http://www.nlm.nih.gov/bsd/pubmed_tutorial/m1001.html

 [Go to PubMed \(Medline\)](#)

Purdue University Library Catalog

 [Go to Purdue University Library Catalog](#)

Race Relations Abstracts

Published quarterly, SAGE Race Relations Abstracts offers summaries of the best and most recent journal articles, books and conference papers from around the world. It assesses more than 300 publications providing you with the latest information and research findings in the area of race relations. Issues covered include discrimination, education, employment, health, politics, law and legislation. SAGE Race Relations Abstracts provides unique resources for scholars, activists and students.

 [Go to Race Relations Abstracts](#)

Reuter's Research on Demand (formerly Multex)

RROD provides real-time full-text investment research reports, video/audio programs, and other full-text reports to support investments research. There are more than 750 contributing firms such as Merrill Lynch, Salomon Smith Barney and RS Investment Management.

 [Go to Reuter's Research on Demand \(formerly Multex\)](#)

RIA Checkpoint (Business: AICPA & FASB)

RIA Checkpoint is a comprehensive tax and accounting research service. It includes federal tax information, AICPA and FASB publications, a segment on SEC Compliance, and the Sarbanes-Oxley Reporter.

 [Go to RIA Checkpoint \(Business: AICPA & FASB\)](#)

RIA Checkpoint (Tax and Estate Planning))

RIA Checkpoint is a comprehensive tax and estate planning research service. It includes federal and state primary law documents such as legislation, regulations, and court opinions. Selected journals and treatises offer detailed analysis of complex tax and estate planning issues.

 [Go to RIA Checkpoint \(Tax and Estate Planning\)\)](#)

RILM Music Literature

RILM Abstracts indexes and abstracts current literature about music, including periodical articles, Festschriften articles, books, reviews, and dissertations. Scope is international, but all abstracts are in English. Coverage: 1969-present

 [Go to RILM Music Literature](#)

RIPM (Index to 19th-Century Music Periodicals)

RIPM, the international index to nineteenth-century music periodicals, indexes articles in over 50 periodicals published in 15 countries during the nineteenth century.

 [Go to RIPM \(Index to 19th-Century Music Periodicals\)](#)

Risk Abstracts

The database covers risk-related concerns ranging from public and environmental health to social issues and psychological aspects. Coverage: 1990-date

 [Go to Risk Abstracts](#)

Rock's Backpages

Rock's Backpages is a full-text online library of rock music journalism published since 1960, including reviews, interviews, and features on artists from Aaliyah to ZZ Top, from over 100 of the most influential magazines and newspapers, including Cashbox, Creem, Crawdaddy!, Melody Maker, Mojo, Spin, Uncut, and Vibe.

 [Go to Rock's Backpages](#)

Roget's Thesaurus

Access to a non-copyrighted version of Roget's Thesaurus, useful in finding synonyms.

 [Go to Roget's Thesaurus](#)

Royal Society of Chemistry E-Journals

This web page contains electronic versions of journals published by the Royal Society of Chemistry. Most of these begin with volumes beginning with the year 1997.

 [Go to Royal Society of Chemistry E-Journals](#)

Russian Newspaper Database

Full-text files of over 30 of the Russian newspapers are accessible online for browsing, searching and analyzing. Includes some English language papers.

 [Go to Russian Newspaper Database](#)

Safari Computer Books Online

Safari Books Online is a joint venture of O'Reilly Media and The Pearson Technology Group. Safari's flagship service, Safari Tech Books Online, sells site licenses to Fortune 50 companies, major universities and leading training organizations worldwide.

 [Go to Safari Computer Books Online](#)

SAGE Journals Online

Provides full-text access to all Sage journals.

 [Go to SAGE Journals Online](#)

Science Citation Index

Science Citation Index is a multidisciplinary index to the journal literature of the sciences.

 [Go to Science Citation Index](#)

Science of Synthesis

Science of Synthesis is the new edition of the Houben-Weyl Methods in Organic Chemistry, a major reference work that provides synthetic methods for the preparation of organic chemicals. The original edition began publication in 1909 and covers the organic chemistry literature back to 1835. All editions of Houben-Weyl as well as the E-Series are also included as an electronic backfile within Science of Synthesis. Please note that the earlier editions of Houben-Weyl are in German. ##Hazard Information for The Science of Synthesis ## ##WARNING! CAREFULLY READ THE FOLLOWING: ALTHOUGH THE SCIENCE OF SYNTHESIS HAS BEEN WRITTEN BY EXPERTS, THE CUSTOMER AND ANY EMPLOYEES, AGENTS AND CONSULTANTS OF THE CUSTOMER (THE "USER") WHO USE THE SCIENCE OF SYNTHESIS ARE HEREBY ADVISED AND ACKNOWLEDGE AND AGREE THAT THE HANDLING OF CHEMICALS, MICROORGANISMS, AND CHEMICAL APPARATUS CARRIES POTENTIALLY LIFE-THREATENING RISKS. FOR EXAMPLE, SERIOUS DANGERS COULD OCCUR THROUGH QUANTITIES BEING INCORRECTLY GIVEN. THE AUTHORS TOOK THE UTMOST CARE THAT THE QUANTITIES AND EXPERIMENTAL DETAILS DESCRIBED HEREIN REFLECTED THE CURRENT STATE OF THE ART OF SCIENCE WHEN THE WORK WAS PUBLISHED. HOWEVER, THE AUTHORS, EDITORS, AND PUBLISHERS TAKE NO RESPONSIBILITY AS TO THE CORRECTNESS OF THE CONTENT. FURTHER, SCIENTIFIC KNOWLEDGE IS CONSTANTLY CHANGING, AS NEW INFORMATION BECOMES AVAILABLE, THE CUSTOMER AND THE USERS MUST CONSULT IT. ALTHOUGH THE AUTHORS, PUBLISHER, AND EDITORS TOOK GREAT CARE IN PUBLISHING THE SCIENCE OF SYNTHESIS, IT IS POSSIBLE THAT TYPOGRAPHICAL ## ##THE CUSTOMER AND USER CAN FIND UNDER WWW.SCIENCE-OF-SYNTHESIS.COM A NON-EXHAUSTIVE LIST OF INTERNATIONAL SAFETY REGULATIONS, I.E. IT SERVES AS A GENERAL GUIDE. THE CUSTOMER AND USER REMAIN SOLELY RESPONSIBLE FOR IDENTIFYING ALL RELEVANT SAFETY REGULATIONS. THE CUSTOMER SHALL CAUSE ALL OF ITS USERS TO BE FREQUENTLY ALERTED TO THOSE GUIDELINES.

 [Go to Science of Synthesis](#)

Science's Next Wave

Science's Next Wave is a weekly online publication that covers scientific training, career development, and the science job market. ##News Features: Job Market News; Career Transitions; Career and Job-Hunting News; Family and Career Issues; Women in Science; and Science's Big Debates. ##Free Access: Jobs Net (Job Listings) and Grant Net (Funding Source Database) ##Forum Topics: Career Advice, Careers in Science, Research Dilemmas, Job Search Support, Post Doc Issues, Big Debates, Grad Student Support Group, The Academic Life, and The Corporate Life ##Updates: Weekly

 [Go to Science's Next Wave](#)

Scientific American Archive Online

This archive contains the fulltext and images from the journal Scientific American from 1993 to date.

 [Go to Scientific American Archive Online](#)

SciFinder Scholar

SciFinder Scholar is the client software used to search Chemical Abstracts. If you want to search Chemical Abstracts, you must download SciFinder Scholar to your hard drive. Instructions are at this URL:

<http://www.libraries.psu.edu/physicalsciences/chemistry/downloadinstructions.htm>

 [Go to SciFinder Scholar](#)

Serial Set

The U.S. Serial Set, a full-text collection of U.S. Government publications compiled under the directive of Congress, includes Congressional reports and documents, executive agency and departmental reports ordered to be printed by Congress, the American State Papers, and all maps, illustrations, photos, and lithographs found within the U.S. Serial Set from 1789-1969. Covering every aspect of American life from the early 19th century onward, from farming, to westward expansion, scientific exploration, politics, international relations, business, and manufacturing.

 [Go to Serial Set](#)

SIAM journals archive (Locus)

Locus contains the electronic full text for every SIAM (Society for Industrial and Applied Mathematics) journal article published from the journal's (11 titles) inception through 1996. That's approximately 14,000 articles, about 285,000 pages, and more than 250,000 reference links.

 [Go to SIAM journals archive \(Locus\)](#)

SIAM journals (Society for Industrial and Applied Mathematics)

The electronic editions of SIAM's journals are published on an accelerated article-by-article basis. They are the definitive editions for SIAM's nine research journals; electronic articles are now published in final form months, and in some cases years, in advance of their print counterparts.

 [Go to SIAM journals \(Society for Industrial and Applied Mathematics\)](#)

Social Sciences Citation Index

The Social Sciences Citation Index is a multidisciplinary index to the journal literature of the social sciences.

 [Go to Social Sciences Citation Index](#)

Social Services Abstracts

This database provides bibliographic coverage of current research focused on social work, human services, and related areas, including social welfare, social policy, and community development. Coverage is from 1979 to date.

 [Go to Social Services Abstracts](#)

Society of Petroleum Engineers eLibrary

The eLibrary covers all aspects of the petroleum industry from exploration to production. It provides access to the fulltext of conference papers, journal articles and other resources published by the Society of Petroleum Engineers since 1958. ##This resource is not available on LIAS Express Workstations.##The SPE requires each user to create a unique login to gain free access the eLibrary. ##At the SPE website, click login, then new user registration near the bottom of the login screen. Your login is your email address, so it will always be easy to remember. Once you are connected to the eLibrary, you will need to login each time to receive reduced or free access to the fulltext. (The eLibrary will recognize your Penn State IP address and allow you access to subscribed content.)

 [Go to Society of Petroleum Engineers eLibrary](#)

Sociological Abstracts

CSA Sociological Abstracts abstracts and indexes the international literature in sociology and related disciplines in the social and behavioral sciences. The database provides abstracts of journal articles and citations to book reviews drawn from over 1,700 serials publications, and also provides abstracts of books, book chapters, dissertations, and conference papers. Records added after 1974 contain in-depth and nonevaluative abstracts of journal articles.

 [Go to Sociological Abstracts](#)

Sociometrics Social Science Electronic Data Library

Sociometrics Social Science Electronic Data Library (SSEDL) consists of eight topically focused data archives, an online data analysis system, and teaching modules.

 [Go to Sociometrics Social Science Electronic Data Library](#)

SodaPop (Simple Online Data Archive for Population Studies)

SodaPop or Simple Online Data Archive for Population Studies is a web-based system that allows users to extract data and view codebooks and other documentation on line. Data is selected from the existing PRI Data Archive (a facility of the Information Core at PRI), and is maintained (for currency) by the data archivist.

 [Go to SodaPop \(Simple Online Data Archive for Population Studies\)](#)

SourceOECD

Full-text book and serial publications from the Organisation for Economic Cooperation and Development. Also includes many of the data sets available from the organization.

 [Go to SourceOECD](#)

SPIE Digital Library

The SPIE Digital Library contains the full text of all papers appearing in SPIE Proceedings and SPIE journals from 1998 to the present, plus a substantial amount of full text coverage going back to 1990. SPIE publications cover all areas of optics and photonics.

 [Go to SPIE Digital Library](#)

SPIN database (Searchable Physics Data Notices)

SPIN is the Searchable Physics Information Notices Database. It provides bibliographic citations and abstracts to articles published in 80 journals since 1975. It is updated daily.

 [Go to SPIN database \(Searchable Physics Data Notices\)](#)

SPORTDiscus

SPORT Discus is a resource for literature on sport, physical fitness and physical education topics. Topics covered include sports medicine, exercise psychology, biomechanics, kinesiology, sport and exercise psychology, sport law, training techniques, coaching, physical education and fitness, facilities, and other sport- and fitness-related topics. Both practical and research level literature is covered, with about 25% of the citations to research level materials. Sources include journals, magazines, newsletters, books, microforms, reports, pamphlets, conferences, and theses and dissertations. The coverage is international, with citations in 50 languages included, and range from 1975 to the present. Because of its international scope, much of the literature indexed in SPORT Discus is not available at Penn State.

 [Go to SPORTDiscus](#)

Sports Business Research Network (SBRnet)

Sports Business Resource Network is a sporting goods and sports marketing database containing full-text market research reports, industry statistics, consumer expenditures, and full-text publications.

 [Go to Sports Business Research Network \(SBRnet\)](#)

SpringerLink (MetaPress)

Access to electronic editions of journals to which Penn State University Libraries subscribes, published by a company called Springer-Verlag. Journals cover the fields of chemistry, computer science, economics, engineering, environmental sciences, geosciences, life sciences, mathematics, medicine, and physics. ##Coverage: 1996-present. ##Updates: Continuous

 [Go to SpringerLink \(MetaPress\)](#)

SRDS Media Solutions

SRDS provides a number of different advertising sources covering: television, radio, newspapers, and consumer and business publications.

 [Go to SRDS Media Solutions](#)

Staff College Automated Military Periodicals Index (SCAMPI)

This database serves as a current (1997 - present) guide to articles on military and naval art and science, operational warfare, joint planning, national and international politics, and other areas researched by Joint Forces Staff College faculty, staff, and students. The index is updated

quarterly. Retrospective conversion for records from the past 40+ years is ongoing.

 [Go to Staff College Automated Military Periodicals Index \(SCAMPI\)](#)

Standard & Poor's NetAdvantage

Standard & Poor's NetAdvantage offers Web access to Standard & Poor's traditional library of company, financial, industry, and equity information.

 [Go to Standard & Poor's NetAdvantage](#)

Stanford Encyclopedia of Philosophy

The Stanford Encyclopedia of Philosophy is a dynamic reference work in which each entry is maintained and kept up to date by an expert or group of experts in the field. All entries and updates are refereed by the members of a distinguished Editorial Board before they are made public. Because of this dynamic model, the Stanford Encyclopedia of Philosophy is responsive to new research.

 [Go to Stanford Encyclopedia of Philosophy](#)

Stat!Ref

Stat!Ref is a cross-searchable medical information database for healthcare professionals, integrating core full-text biomedical and nursing books with evidence-based resources and innovative tools in one site.

 [Go to Stat!Ref](#)

Statsbiblioteket

The State and University Library is a legal deposit library. According to law it receives a free copy of all books, periodicals, newspapers and other material published in Denmark. The State and University Library is also the domicile of The National Newspaper Archive. As the main library to the University of Aarhus the State and University Library supplies researchers, teachers, and students at the university and also at other institutions of higher education in the Århus-area with books and papers, and information and documentation in all subject areas.

 [Go to Statsbiblioteket](#)

STAT-USA

STAT-USA/Internet, a service of the U.S. Department of Commerce, is the site for the U.S. business, economic and trade community, providing authoritative information from the Federal government. **##NOTE!!** The licensing agreement to this database RESTRICTS ACCESS to LIBRARIES workstations at UNIVERSITY PARK only. You cannot access this database from remote locations, or from other University Park locations, such as CAC labs.

 [Go to STAT-USA](#)

Supreme Court Yearbook

In-depth analysis of every US Supreme Court Case since the 1989/90 term. Covers the background of the case, arguments presented, and summary of ruling.

 [Go to Supreme Court Yearbook](#)

Sustainability Science Abstracts

This database contains resources related to sustainable development and conservation of natural resources. Coverage is from 1995 to date.

 [Go to Sustainability Science Abstracts](#)

TableBase (business and marketing)

TableBase provides tabular and statistical data on companies, industries, products, and demographics. Subject areas include market share, company and brand rankings, industry and product forecasts, imports and exports, production and consumption statistics, number of users, and trends. Ninety percent of the records are full-text. It is international in scope and is updated weekly.

 [Go to TableBase \(business and marketing\)](#)

Television News Archive

The Television News Archive collection at Vanderbilt University is the world's most extensive and complete archive of television news. The collection holds more than 30,000 individual network evening news broadcasts from the major U.S. national broadcast networks: ABC, CBS, NBC, and CNN, and more than 9,000 hours of special news-related programming including ABC's Nightline since 1989. These special reports and periodic news broadcasts cover presidential press conferences and political campaign coverage, and national and international events such as the Watergate hearings, the plight of American hostages in Iran, the Persian Gulf war, and the terrorist attack on the United States on September 11, 2001. Material in the archive can be identified for use through our TV-NewsSearch Database. In addition, through its detailed content related to news events, this resource also serves as a unique reference tool for studying historical and political events. Users will have the ability to view online video from the Archive's collection of CNN material, if they have the RealOne media player from RealNetworks. This software can be obtained from the Real Networks website.

 [Go to Television News Archive](#)

The Bible in English

The Bible in English contains twenty versions of the Bible, from Old English, through the Middle Ages and Renaissance, and into the twentieth century. In addition to the twelve complete Bibles, there are five New Testament works, two Gospel works and William Tyndale's New Testament, Pentateuch and Jonah translations.

 [Go to The Bible in English](#)

The CAT - Penn State Library Catalog

The online catalog of materials owned by Penn State Libraries. All formats (books, journals, audiovisuals, maps, recordings, etc.) are included. Circulation status for individual items also provided. **##Coverage:** Presently contains about 2 million titles. Updates: Continuous up-to-the-minute as new records are added

 [Go to The CAT - Penn State Library Catalog](#)

Thesaurus Linguae Graecae (TLG)

The Thesaurus Linguae Graecae (TLG) is a research center at the University of California, Irvine. Founded in 1972, the TLG has already collected and digitized most literary texts written in Greek from Homer to the fall of Byzantium in AD 1453. The database now contains over 76 million words of text from over 6,600 works and work collections from nearly 2,000 authors.

 [Go to Thesaurus Linguae Graecae \(TLG\)](#)

Theses & Dissertations Catalog

The Networked Digital Library of Theses and Dissertations Union Catalog will serve as a repository of rich graduate educational material contributed by a number of member institutions worldwide. The hope is that this project will increase the availability of student research for scholars, empower students to convey a richer message through the use of multimedia and hypermedia technologies and advance digital library technology worldwide.

 [Go to Theses & Dissertations Catalog](#)

Times of London Digital Archive (1785-1985)

Researchers can search through the complete digital edition of The Times (London), using keyword searching and hit-term highlighting to retrieve full facsimile images of either a specific article or a complete page. The entire newspaper is captured, with all articles, advertisements and illustrations/photos divided into categories to facilitate searching.

 [Go to Times of London Digital Archive \(1785-1985\)](#)

Times of London (Palmer Index)

Palmer's Index to The Times contains records from the 461 printed volumes of Palmer's Index to the London Times newspaper. Articles can be located by broad subject headings, date of publication, or title keywords. Obituaries are under the heading "Deaths". For articles after 1905 consult the print volumes for the Official Index to the Times, available in the Microforms and Newspapers Library, Ground Floor West Pattee (Call # A121.T46). The text of the Times is on microfilm, Call # Microfilm E200

 [Go to Times of London \(Palmer Index\)](#)

TIPS Dial Access

Audio-streamed lectures for the exclusive use of those students currently enrolled in the course.

 [Go to TIPS Dial Access](#)

TLS Centenary Archive

Fully indexed page images of the TLS (Times Literary Supplement) from 1902 until 1990. Identifies authors of anonymously published articles previous to 1974.

 [Go to TLS Centenary Archive](#)

TOCS-IN

TOCS-IN provides the tables of contents of a selection of Classics, Near Eastern Studies, and Religion journals, both in text format and through a Web search program.

 [Go to TOCS-IN](#)

Toxicology Abstracts

Toxicology Abstracts covers issues from social poisons and substance abuse to natural toxins, toxicology studies of industrial and agricultural chemicals, household products, pharmaceuticals, and myriad other substances, from legislation and recommended standards to environmental issues. Topics of current concern such as the effects of alcohol and smoking, drug abuse, hydrocarbon studies, nitrosamines, radiation and radioactive materials, and much more are extensively examined. Toxicity testing methodology and analytical procedures for toxic substances are also covered. Coverage is from 1981 to date.

 [Go to Toxicology Abstracts](#)

TOXLINE

TOXLINE offers rapid access to information in all areas of toxicology, including chemicals and pharmaceuticals, pesticides, environmental pollutants, and mutagens and teratogens.

 [Go to TOXLINE](#)

TOXNET

TOXNET is a cluster of Databases on toxicology, hazardous chemicals, environmental health, and toxic releases. Databases include: ##HSDB## (Hazardous Substances Data Bank) - toxicology of over 5,000 potentially hazardous chemicals. ##IRIS (Integrated Risk Information System) - carcinogenic and non-carcinogenic health risk information on over 500 chemicals. ##ITER (International Toxicity Estimates for Risk) - human health risk assessments. ##CCRIS (Chemical Carcinogenesis Research Information System) - over 9,000 chemical records with carcinogenicity, mutagenicity, tumor promotion, and tumor inhibition test results. ##GENE-TOX (Genetic Toxicology) - genetic toxicology test results on over 3,200 chemicals. ##Household Products Database - information on the potential health effects of chemicals contained in more than 6,000 common household products used inside and around the home. ##Haz-Map## - An occupational toxicology database designed primarily for health and safety professionals, but also for consumers seeking information about the health effects of exposure to chemicals and biologicals at work. ##LactMed (Drugs and Lactation) - A database of drugs and other chemicals to which breastfeeding mothers may be exposed. ##TOXLINE## - literature on the biochemical, pharmacological, physiological, and toxicological effects of drugs and other chemicals from 1965 to the present. ##DART##/ETIC (Development and Reproductive Toxicology/Environmental Teratology Information Center) - literature on reproductive and developmental toxicology. ##Toxics Release Inventory (TRI) - describe the releases of toxic chemicals into the environment annually for the 1987-2004 reporting years. ##ChemIDplus - access to structure and nomenclature authority databases used for the identification of chemical substances cited in NLM databases.

 [Go to TOXNET](#)

Treasures Film Archives

The Treasures from the Film Archives database contains unique information about silent film holdings in international film archives.

 [Go to Treasures Film Archives](#)

TRIS (Transportation Research Information Service)

Provides bibliographic access to transportation research published in journals, books, technical reports, and other media. It is produced by the Transportation Research Board and the U.S. Department of Transportation.

 [Go to TRIS \(Transportation Research Information Service\)](#)

Turfgrass Information Service

The Turfgrass Information Center (TIC) provides access to a database of published materials reporting on aspects of turfgrass and its maintenance. This includes conference proceedings, trade publications, scientific journals, extension bulletins, and newsletters.##TIC is a specialized unit at the Michigan State University Libraries and has over 100,000 records in its primary database, the Turfgrass Information File (TGIF).

 [Go to Turfgrass Information Service](#)

Twentieth - Century African American Poetry

AA database of modern and contemporary African American poetry, featuring almost 9,000 poems by 62 of the most important African American poets of the last century, including Langston Hughes, Jean Toomer, Imamu Amiri Baraka, Audre Lorde and Rita Dove.

 [Go to Twentieth - Century African American Poetry](#)

Twentieth - Century American Poetry

This collection includes 50,000 poems drawn from 750 volumes by over 300 poets, including Adrienne Rich, Andrei Codrescu, Ezra Pound, William Carlos Williams, Denise Levertov, Wallace Stevens, Langston Hughes, Lucille Clifton, and Cathy Song.

 [Go to Twentieth - Century American Poetry](#)

Twentieth - Century Drama

Full texts of plays from the English-speaking world from 1890 to the present. Includes works of J.M. Barrie, Lady Gregory, Bernard Shaw,

Tony Harrison, Oscar Wilde, and W.B. Yeats. Texts are searchable by word, genre, and nationality. Includes a tables of contacts for performance rights.

 [Go to Twentieth - Century Drama](#)

Twentieth - Century English Poetry

Full texts of the works of over 285 poets from Kipling and Yeats to the present day. Incorporates works from the Faber Poetry Library, including the works of Americans such as Eliot and Plath

 [Go to Twentieth - Century English Poetry](#)

Ulrich'sWeb

Ulrichsweb.com provides data on over a quarter-million serials titles (magazines, newspapers, newsletters, journals, etc...) produced around the world. Information typically provided includes: status (active/inactive), subscription price, publisher information, frequency of publication, ISSN, whether the publication is refereed, and which indexes cover the title. In some cases circulation and advertising data, tables of contents, and links to online materials are provided. Includes reviews from the publication Magazines for Libraries.

 [Go to Ulrich'sWeb](#)

UN Comtrade

Comtrade provides commodity trade data for all available countries and areas since 1962. Currently, it contains almost 700 millions records. Download functions are limited.

 [Go to UN Comtrade](#)

United Nations Treaty Collection

This collection includes five categories of treaty-related data: ## ##Status of Multilateral Treaties deposited with the Secretary-General ##The United Nations Treaty Series (full text) ##Recently Deposited Multilateral Treaties ##Photographs of Treaty Signature ceremonies ##Titles of the Multilateral Treaties deposited with the Secretary-General in the UN official languages. ##A complete description of the database is available at: <http://untreaty.un.org/English/overview.asp> ## ##As of April 2000, the database contains full text of treaties from 1992-to date. Additional years are continually added.

 [Go to United Nations Treaty Collection](#)

University of Chicago Library Catalog

 [Go to University of Chicago Library Catalog](#)

University of Illinois at Urbana-Champaign Library Catalog

 [Go to University of Illinois at Urbana-Champaign Library Catalog](#)

University of Illinois-Chicago Library Catalog (UICCAT)

 [Go to University of Illinois-Chicago Library Catalog \(UICCAT\)](#)

University of Iowa Library Catalog (InfoHawk)

 [Go to University of Iowa Library Catalog \(InfoHawk\)](#)

University of Michigan Library Catalog (MIRLYN)

 [Go to University of Michigan Library Catalog \(MIRLYN\)](#)

University of Minnesota Library Catalog (MNCAT)

 [Go to University of Minnesota Library Catalog \(MNCAT\)](#)

University of Wisconsin-Madison Library Catalog (MadCat)

 [Go to University of Wisconsin-Madison Library Catalog \(MadCat\)](#)

University Park Campus History Collections

This collection of primary source materials focuses on the design and planning of the Penn State University Park campus. The development of the campus from the 1870s to the 1970s is documented by a selection of maps, photographs, construction drawings, specifications, statistical information, and news releases and articles. Important designers such as Charles Z. Klauder have shaped the campus which includes two National Register Historic Districts - the Ag Hill District and the Old Campus Complex. This selection of approximately 200 images provides examples of the much larger collection in the University Archives, part of the Libraries' Special Collections.

 [Go to University Park Campus History Collections](#)

UNSTATS

UNSTATS provides data on a wide range of social and economic data series from 30 specialized international intergovernmental agencies including POPIN, World Bank, IMF, UNESCO, UNICEF, and WHO. Data can be displayed in HTML or downloaded in Excel or CSV format.

 [Go to UNSTATS](#)

U.S. Supreme Court Records and Briefs, 1832-1978

The U.S. Supreme Court Records and Briefs digital collection offers full-text searching of documents from 1832 to 1978. Types of records include appellant and appellee briefs, amicus briefs, petitions, trial transcripts, and more.

 [Go to U.S. Supreme Court Records and Briefs, 1832-1978](#)

USPTO Patent Database

The database consists includes information about all US patents (including utility, design, reissue, plant patents and SIR documents) from the first patent issued in 1790 to the most recent issue week. ## ##Patents from January 1976 to the present offer the full searchable text, including all bibliographic data, such as the inventor's name, the patent's title, and the assignee's name; the abstract; the full description of the invention; and the claims. The display of each patent's full-text includes a hyperlink to obtain full-page images of each page of the patent. Information from Certificates of Correction and Reexaminations is not included in the full-text database per se, but can be found as pages attached to the full-page images of the original patent. ## ##Patents from 1790 to December 1975 offer only the patent number and the current US patent classification in the text display, and can be searched only by those fields. However, this limited text display also includes

a hyperlink to obtain full-page images of each page of the patent.

 [Go to USPTO Patent Database](#)

Value Line

Value Line is the standard investment advisory service. The Web research center provides access to the standard Value Line Investment Survey and to its related resources.

 [Go to Value Line](#)

Vault Online Career Library

Vault provides full-text career and industry guides; company profiles; occupation descriptions; and career-related articles.

 [Go to Vault Online Career Library](#)

Vital Statistics on American Politics

200 tables on US elections and political parties, public opinion and voting, the media, the three branches of U.S. government, foreign, military, social and economic policy. Contains some time series data. Data can be exported for use in excel or other statistical software.

 [Go to Vital Statistics on American Politics](#)

Water Resources Abstracts

Water Resources Abstracts provides summaries of the world's technical and scientific literature on water-related topics covering the characteristics, conservation, control, pollution, treatment, use and management of water resources. Abstracts are drawn from journals, books, conference proceedings, and technical reports in the physical and life sciences, as well as from engineering, legal and government publications.

 [Go to Water Resources Abstracts](#)

W.B. Yeats Collection

Full texts of the Irish author's poetry, plays, and prose, taken from the standard Scribner/Macmillan Collected Edition of the Works of W. B. Yeats and from other sources.

 [Go to W.B. Yeats Collection](#)

Web of Science

Web of Science provides access to: the Science Citation Index Expanded 1900-present; the Social Sciences Citation Index 1956-present; and the Arts & Humanities Citation Index 1975-present. ##Web of Science indexes articles from thousands of journals and also indexes the citations used in those articles, thus allowing the user to see which papers have cited a core paper, and how many times a paper was cited in a given time period. ##Subjects include: Agriculture, Anthropology, Archaeology, Architecture, Art, Asian Studies, Astronomy, Biochemistry, Biology, Biotechnology, Business, Chemistry, Classics, Communications, Computer Science, Dance, Economics, Electronics, Engineering, Finance, Folklore, Geosciences, History, Industrial Relations, Information Science & Library Science, Language, Law, Linguistics, Literary Reviews, Literature, Materials Science, Mathematics, Medicine, Microbiology, Music, Neuroscience, Oncology, Pediatrics, Pharmacology, Philosophy, Physics, Plant Sciences, Poetry, Political Science, Psychiatry, Psychology, Public Health, Radio, Television, & Film, Religion, Social Work, Sociology, Technology, Theater, Urban Studies, Veterinary Science, Women's Studies, Zoology.

 [Go to Web of Science](#)

Webster's Third International Dictionary, Unabridged

The full text of the 1961 edition of the standard work, with updates to 1996.

 [Go to Webster's Third International Dictionary, Unabridged](#)

Weldasearch

Weldasearch is a comprehensive database containing abstracts in the areas of joining metals, plastics and ceramics, metal and ceramic spraying, thermal cutting, brazing, soldering and related topics. Every aspect of welding and allied processes is covered including design, metallurgy, fatigue and fracture mechanics, equipment for joining and cutting processes, corrosion, surfacing, micro joining, quality control, nondestructive testing, safety, commercial applications, market statistics and news of the industry. Coverage: 1967-present.

 [Go to Weldasearch](#)

Westlaw Campus

Westlaw Campus is an academic version of the legal database, Westlaw. Users can search the full-text of federal and state cases, statutes and administrative codes, as well as American Jurisprudence 2d, American Law Reports, and hundreds of law journals.

 [Go to Westlaw Campus](#)

Wharton Research Data Service (WRDS)

WRDS provides Web access to a number of financial research databases, including Compustat, CRSP (Center for Research in Securities Prices), Dow Jones Averages, FDIC, Philadelphia Stock Exchange, and TAQ (Trades and Quotations). ##Accessing the Database: ##Users open individual accounts by applying at the WRDS home page. WRDS will send the user's account name and password to the Penn State WRDS administrator within 48 hours, who will verify that the user is a Penn State faculty, staff, or student. The Penn State WRDS administrator will then forward account information to the individual user.

 [Go to Wharton Research Data Service \(WRDS\)](#)

Wikipedia - English

Wikipedia has rapidly grown into the largest reference website on the Internet. ##The content of Wikipedia is free, written collaboratively by people from all around the world. ##This website is a wiki, which means that anyone with access to an Internet-connected computer can edit, correct, or improve information throughout the encyclopedia, simply by clicking the edit this page link (with a few minor exceptions such as protected articles).

 [Go to Wikipedia - English](#)

Wildlife & Ecology Studies Worldwide

Wildlife and Ecology Studies Worldwide is the world's largest index to literature on wild mammals, birds, reptiles, and amphibians. All aspects of wildlife and wildlife management are covered, with a global perspective. Major topic areas include studies of individual species, habitat types, hunting, economics, wildlife behavior, management techniques, diseases, ecotourism, zoology, taxonomy and much more. Coverage is 1935 to present.

 [Go to Wildlife & Ecology Studies Worldwide](#)

Wiley Interscience Journals

More than 300 online publications for researchers and professionals.

 [Go to Wiley Interscience Journals](#)

Women and Social Movements

The database includes books, images, audiofiles, documents, scholarly essays, commentaries, and bibliographies on women's social movements from colonial times to the present.

 [Go to Women and Social Movements](#)

Women's History Online, 1543-1945 (Gerritsen)

Full text books, pamphlets and periodicals reflecting the evolution of feminist consciousness and the movement for women's rights through 1945. Includes materials from continental Europe, the U.S., the United Kingdom, Canada, and New Zealand, dating from 1543-1945. The anti-feminist case is presented as well as the pro-feminist; many other titles present a purely objective record of the condition of women at a given time.

 [Go to Women's History Online, 1543-1945 \(Gerritsen\)](#)

Women's Studies International

This resource provides access to over 232,000 records drawn from ten important Women's Studies databases. Among the databases included in Women's Resources International are Womens Studies Abstracts, one of the premiere Women's Studies indexes; four files from Women Studies Librarian at the University of Wisconsin; Popline Subset on Women; and Women's Health and Development: An Annotated Bibliography of Mostly English Language Journal Articles from the World Health Organization. ##Coverage: 1972 to date; citations and abstracts only. Updated semiannually.

 [Go to Women's Studies International](#)

World Bank e-Library

World Bank E-Library presents fulltext PDF-format versions of all new World Bank books and selected books beginning in 1984. More than 1,200 titles cover all areas of World Bank interests. This collection complements World Development Sources, the fulltext grey literature collection of World Bank documents and reports.

 [Go to World Bank e-Library](#)

World Christian Database

The World Christian Database (WCD) includes detailed information on all major world religions. Extensive religious and secular statistics are available on 9,000 Christian denominations, 238 countries and 13,000 ethnolinguistic peoples, as well as on 5,000 cities and 3,000 provinces. The WCD incorporates the core data from the World Christian Encyclopedia(WCE) and World Christian Trends (WCT). However, statistics in the WCD constitute a significant update of the data published in WCE/WCT in 2001. WCD is an initiative of the Center for the Study of Global Christianity at Gordon-Conwell Theological Seminary.

 [Go to World Christian Database](#)

World Development Indicators

World Development Indicators includes nearly 800 statistical indicators related to social and economic development. It is organized in six sections: World View, People, Environment, Economy, States and Markets, and Global Links. The tables cover 152 economies and 14 country groups-with basic indicators for a further 55 economies. Data can be downloaded for further manipulation.

 [Go to World Development Indicators](#)

World News Connection

World News Connection (WNC) contains full-text translated summaries from the Foreign Broadcast Information Service (FBIS) Daily Reports for the following materials: ##newspaper articles ##conference proceedings ##radio and television broadcasts ##periodicals ##non-classified technical reports

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World Scientific e-journals (Physics, Mathematics, Computer Science)

Provides access to electronic journals published by World Scientific to which Penn State subscribes. Major subject areas included are physics, mathematics, and computer science.

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World Shakespeare Bibliography

An index to recent literature on all aspects of public administration. A database of scholarly and popular materials related to Shakespeare and published or produced between 1972 and the present. Includes books, articles, book reviews, dissertations, theatrical productions, reviews of productions, audiovisual materials, electronic media.

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WorldCat (OCLC)

OCLC WorldCat database is the OCLC online catalog. It contains over 43 million records describing library holdings.

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Worldwide Political Science Abstracts

CSA Worldwide Political Science Abstracts is building on the merged backfiles of Political Science Abstracts, published by IFI / Plenum, 1975-2000, and ABC POL SCI, published by ABC-CLIO, 1984-2000. The database provides citations, abstracts, and indexing of the international serials literature in political science and its complementary fields, including international relations, law, and public administration / policy. The serials list of the new database is actively under construction, with a focus on expanding international coverage. As of February 2004 approximately 1,432 titles are being monitored for coverage; this list will continue to grow. ##Enhancements to the new database include the capability to link to electronic fulltext and the addition of new fields to the record structure. Furthermore, many records from key journals in political science, published since 2000, also include the references cited in the bibliography of the source article. Each individual reference may also have links to an abstract and/or to other papers that cite that reference; these links increase the possibility of finding more potentially relevant articles. All records added since 2000 are indexed using a thesaurus of over 3,000 terms. ##Subject Coverage ##Major areas of coverage include: ##Comparative politics ##Developing nations ##Disarmament ##Economic policy ##Electoral systems ##Environmental policy ##Government/Political systems ##History and theory of political science ##International relations/trade ##Labor relations ##Military policy ##Methodology and research technology ##Political behavior ##Political economy ##Political psychology ##Politics and law ##Politics and communication ##Politics and religion ##Politics and society ##Public administration ##Security and defense ##Welfare systems ##Dates of Coverage ##1975 - current

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This guide to global civil society networks provides extensive coverage of non-profit international organizations available today whether governmental or non-governmental. More than just a directory, the yearbook provides: organization descriptions; international organization participation; global action networks; a bibliography of resources; and statistics.

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