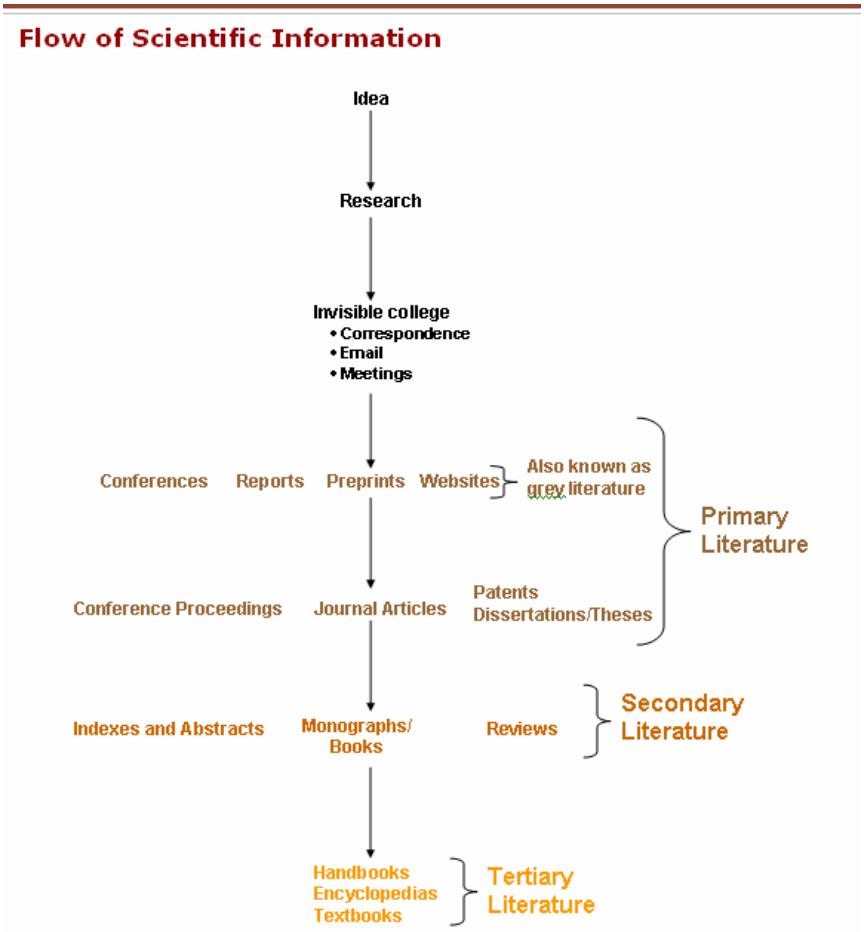
Guide to Selected Physical Chemistry Resources for Chemists at Stanford University



Source: University of Waterloo Library
http://www.lib.uwaterloo.ca/usered/grad/researchskills/flow_of_info.html

The Review Article – A Logical Point for Starting Relevant Research
http://www.annualreviews.org/pdf/sitelicense/ValueofRevArt_2006.pdf/

Contents

Library Catalogs

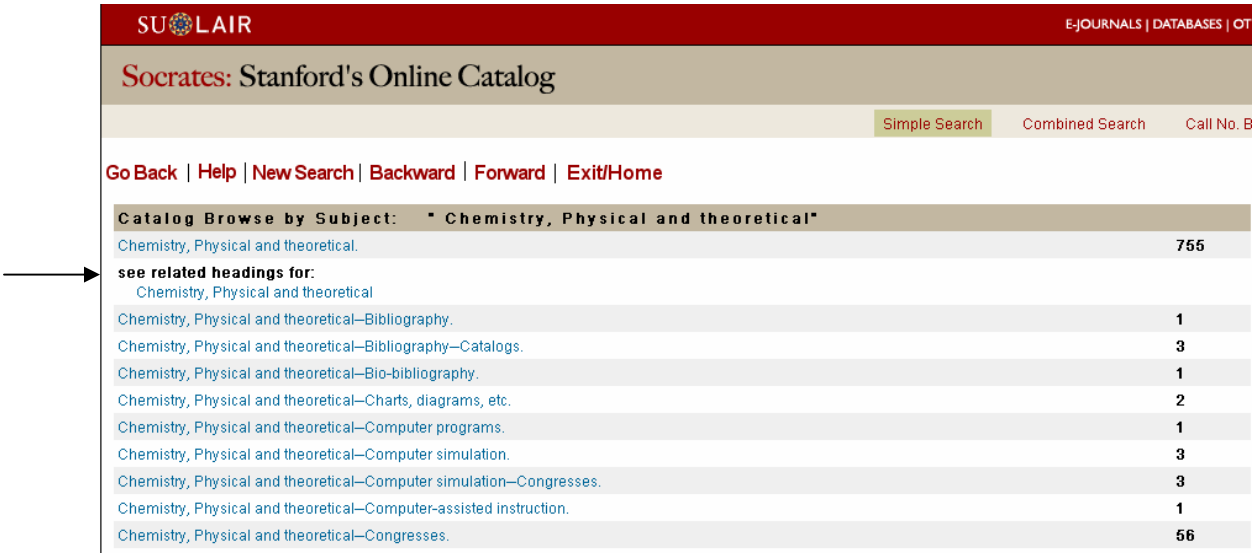
Socrates, Stanford's Online Catalog
http://socrates.stanford.edu/

Melvyl (University of California Libraries)
http://melvyl.cdlib.org/

World Catalog
http://www.worldcat.org/

Library of Congress Subject Headings

The official subject term or heading for physical chemistry is *Chemistry, Physical and Theoretical*. To identify related subject headings (broader and narrower terms), browse *Chemistry, Physical and Theoretical* as a subject (see below).



For the subject **Chemistry, Physical and theoretical**
search also under the broader term: Chemistry
search also under the narrower term: Absorption
search also under the narrower term: Acid-base chemistry
search also under the narrower term: Acids–Basicity
search also under the narrower term: Allotropy
search also under the narrower term: Atmospheric chemistry
search also under the narrower term: Atomic mass
search also under the narrower term: Atomic theory
search also under the narrower term: Atomic weights
search also under the narrower term: Atoms
search also under the narrower term: Catalysis
search also under the narrower term: Chemical affinity
search also under the narrower term: Chemical bonds
search also under the narrower term: Chemical equilibrium
search also under the narrower term: Chemical reaction, Conditions and laws of

Classification Web (Library of Congress Call Numbers)
http://classificationweb.net/Auto/

Classification Web is a tool that you can use to identify relevant call numbers. The list below is available in the Hierarchical Classification Browser part of the web site.

Browsing is a great way to identify potential items of interest. Below are call numbers for Physical and Theoretical Chemistry (QD 450-QD 801). Note that you can virtually browse the shelves for a library by using the Browse Call Number feature in Socrates.

QD450-882	Physical and theoretical chemistry Cf. QC170-197 Constitution and properties of matter
QD450	Periodicals, societies, congresses, serial publications
QD450.2	Collected works (nonserial)
QD451	Dictionaries and encyclopedias
QD451.5	Nomenclature, terminology, notation, abbreviations
QD452-452.5	History
QD453-453.2	General works, treatises, and textbooks
QD455	Addresses, essays, lectures
QD455.2	Special aspects of the subject as a whole
QD455.3.A-Z	Special topics, A-Z
QD455.5-457.2	Study and teaching. Research
QD458	Handbooks, tables, formulas, etc.
QD461	Atomic and molecular theory and structure. Laws of chemical combination and chemical bonds. Molecular dimensions Cf. QD469 Valence
QD461.5	Excited state chemistry
QD462-462.9	Quantum chemistry
QD463-464	Atomic and molecular weights
QD466-469	Chemical elements
QD470	Allotropy
QD471	Chemical compounds - Structure and formulas. Including isomerism, mesomerism, tautomerism Cf. QD481 Stereochemistry
QD473	Physical properties in relation to structure. Including odor, color, and optical properties Cf. QD441 Colored organic compounds Cf. QD931-947 Physical properties of crystals
QD474	Complex compounds. Including clathrate and coordination compounds, chelates, and hydrates Cf. QD410-412.5 Organometallic compounds
QD475	Physical inorganic chemistry
QD476	Physical organic chemistry
QD476.2	Physical biochemistry
QD477	Acids and bases (General theory)
QD478	Solids. Solid state chemistry (Inorganic and organic) Cf. QC176-176.9 Solid state physics Cf. QD506-509 Surface chemistry Cf. QD901-999 Crystallography

Cf. TN689-693 Physical metallurgy

QD480 Models of atoms, molecules, or chemical compounds

QD481 Stereochemistry. Molecular rotation

Cf. QP517.S83 Biochemistry

QD501-505.5 Conditions and laws of chemical reactions

QD505.8 Chemiluminescence

QD506-509 Surface chemistry

QD510-536 Thermochemistry

Cf. QC301-310 Change of state (Physics)

Cf. QD79.T38 Thermal analysis (Analytical chemistry)

Cf. QD117.T4 Thermal analysis, Quantitative

Cf. QD157 Electric furnace operations (Inorganic chemistry)

Cf. QD277 Electric furnace operations (Organic chemistry)

QD538 Chemistry of high and low pressures

QD540-549.2 Theory of solution

Cf. QC182-197 Special properties of matter

Cf. QD565 Electrolyte solutions

QD551-578 Electrochemistry. Electrolysis

Cf. QC610.3-612 Electric conductivity, electromotive force

Cf. QD115-116 Electrochemical analysis

Cf. QD272.E4 Electrochemical analysis of organic compounds

Cf. QD273 Electrochemistry of organic compounds

Cf. QD880 Electrochemistry of supramolecular compounds

Cf. QP517.B53 Bioelectrochemistry

Cf. TP250-261 Industrial electrochemistry

QD581 Plasma chemistry

Cf. TP156.P5 Industrial plasma chemistry

QD591 Magnetochemistry

Cf. QD940 Magnetic properties of crystals

QD601-607 Radiochemistry. Nuclear chemistry

Cf. QC794.95-798 Radioactivity, radioactive substances in nuclear physics

Cf. TK9350 Nuclear engineering

Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry

QD625-655 Radiation chemistry

Cf. QC474-496.9 Radiation physics

Cf. TA418.6 Radiation effects and tests of materials

Cf. TP249 Industrial radiochemistry. Industrial radiation chemistry

QD701-731 Photochemistry

Cf. QD275 Organic photochemistry

Cf. QD578 Photoelectrochemistry

Cf. QP517.P45 Photobiochemistry

Cf. TP249.5 Industrial photochemistry

Cf. TR200-222 Photographic chemistry

QD801 Sonochemistry

Cf. TP156.A33 Industrial use of sounds and ultrasonics

Abstracts and Indexes

SciFinder on the web / SciFinder Scholar (1907-present, plus > 133,000 pre-1907 journal records)
http://library.stanford.edu/depts/swain/collections/databases/cas/scifi/index.html
Available via SciFinder on the web and the ciFinder Scholar client, Chemical Abstracts Online is the most comprehensive index in chemistry and chemical engineering. It includes 9,500 journals, patents, dissertations, conference proceedings, technical reports, and books. Cited references from 1997 to the present are also available. Bibliographic information and available abstracts for the articles from nearly 1,500 key chemical journals are added within 1 week of journal receipt. Updated daily.

Web of Science (1900-present)
http://ezproxy.stanford.edu:2048/login?url=http://portal.isiknowledge.com/portal.cgi?DestApp=WOS&Func=Frame
WoS includes Science Citation Index (SciSearch), the multidisciplinary scientific and technical database. Produced by Thomson Scientific, it contains bibliographic information and cited references from approximately 5,900 of the world's leading scientific, technical, and medical journals. Records from January 1991 to the present include abstracts and keywords. Authors, bibliographic information, cited references, and keywords are searchable. Updated weekly.

INSPEC (1898-present)
http://search.lanl.gov/ssplus/jsp/AdvancedSearch.jsp?collection=ins
INSPEC (Information Service for Physics, Electronics, and Computing) provides a comprehensive index to the published literature in physics, electrical/electronic engineering, computing, control engineering, information technology, production, manufacturing and mechanical engineering as well as materials science, oceanography, nuclear engineering, geophysics, biomedical engineering and biophysics. It includes about 4,000 journals, books, conferences, dissertations, patents, and reports. Updated weekly.

OPPIE beta from LANL (replaces SearchPlus)
http://oppie.lanl.gov/oppie/service
Conceived as a state-of-the-art replacement for the Research Library's existing search tool, OPPIE (Online Portal for Powerful Information Exchange) is envisioned as a platform for services ranging from search and discovery to collaboration and social tools. Databases searched include content from Web of Science, Biosis, Engineering Index, and Inspec.

Scitopia
http://www.scitopia.org
A free federated vertical search portal for 15 professional scholarly societies (Acoustical Society of America, American Geophysical Union, American Institute of Aeronautics and Astronautics, American Institute of Physics, American Physical Society, American Society of Civil Engineers, American Society of Mechanical Engineers, American Vacuum Society, The Electrochemical Society, The Institute of Electrical and Electronics Engineers, Institute of Physics Publishing, Optical Society of America, Society of Automotive Engineers, Society for Industrial and Applie Mathematics and SPIE). More professional scholarly societies will be joining this venture. Content sources include: three million articles and conference proceedings 50 million patents from the world's major patent offices full-text documents from the US Dept of Energy Information Bridge site.

Books Series & eBook Sites

Selected Book Series

Advances in Chemical Physics
Need print holdings info; haven't bought online version.

Advances in Physical Organic Chemistry
http://www.sciencedirect.com/science/bookseries/00653160

Advances in Quantum Chemistry
http://www.sciencedirect.com/science/bookseries/00653276

Annual Reports in Computational Chemistry
http://www.sciencedirect.com/science/bookseries/15741400

Annual Reports on the Progress of Chemistry - Section C Physical Chemistry
http://xlink.rsc.org/jumptojournal.cfm?journal_code=PC

Annual Review of Physical Chemistry
http://arjournals.annualreviews.org/loi/physchem?cookieSet=1

Comprehensive Chemical Kinetics
http://www.sciencedirect.com/science/bookseries/00698040

Data Handling in Science and Technology
http://www.sciencedirect.com/science/bookseries/09223487

Studies in Physical and Theoretical Chemistry
http://www.sciencedirect.com/science/bookseries/01676881

Selected eBook Sites

eBrary for Libraries
http://site.ebrary.com/lib/stanford/
34,131 Titles Available for Stanford Users
Full-text searching and retrieval of over 34,000 titles in various disciplines. Special ebrary browser plug-in required. Stanford's subscription allows printing and copying from ebrary at no charge, although some titles have restrictions on the number of pages that may be printed or copied.

Google Books
http://books.google.com/
Book Search works just like web search. Depending on copyright status and publisher permissions, you may be able to view a preview or the full text. Reference pages for books include links to book reviews, web references, maps and more. Currently, Google is connecting readers with books in two ways: the Partner Program and the Library Project (Stanford is a participant).

Knovel Library
http://www.knovel.com/
1,460 Titles Available for Stanford Users
Knovel Library combines essential and authoritative reference books and databases from more than 30 Sci-Tech publishers and professional societies including, McGraw Hill, John Wiley, Elsevier, Springer, and American Institute of Chemical Engineers. Using Advanced Search feature, it is possible to search numeric ranges for physical properties. It is also possible to sort, filter and export data from "live tables", resolve equations and plot graphs, capture values from existing graphs and perform "what if" experiments on the data. Learn more about Knovel's tools.

MyiLibrary
http://www.myilibrary.com/search/my_content.asp
14,916 Titles Available for Stanford Users
As of early January 2008, MyiLibrary includes the full-text for 14,916 books for Stanford users. Here's breakdown of titles by publisher: Cambridge University Press (3,037 titles), Elsevier Science & Technology (3,009 titles), Oxford University Press (2,168 titles), and Springer (6,702 titles).

Dictionaries

IUPAC Compendium of Chemical Terminology (Gold Book)
http://goldbook.iupac.org/index.html
The IUPAC Compendium of Chemical Terminology is the definitive guide to chemical terminology; it now contains more than 7000 entries, is easy to browse, search, and navigate.

McGraw-Hill Dictionary of Science and Technical Terms
http://www.accessscience.com/searchOptions.aspx?type=conttype
Includes 110,000+ definitions; part of the Access Science site that also contains the McGraw-Hill Encyclopedia of Science and Technology.

Oxford Reference Online
http://www.oxfordreference.com/views/GLOBAL.html
In Oxford Reference Online: Premium Collection you will find a wealth of facts, figures, definitions, and translations from 175+ Oxford reference titles, many of which are in-depth, scholarly articles from titles in the acclaimed Oxford Companions series, plus all 20,000 quotations from the Oxford Dictionary of Quotations

Quantities, Units and Symbols in Physical Chemistry (Green book)
http://www.iupac.org/publications/books/gbook
This book provides a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. Full text PDF with bookmark by chapters and sections is available.

Directories and Organizations

ACS Directory of Graduate Research
http://dgr.rints.com/

DGRweb, the searchable online version of the ACS Directory of Graduate Research (DGR), is the most comprehensive source of information on chemical research and researchers at universities in the U.S. and Canada.

Gale Virtual Reference Library
http://go.galegroup.com/ps/i.do?v=2.1&u=stan90222&pg=BasicSearch&it=static&p=GVRL&sw=w
This site includes an online version of American Men and Women of Science.

Selected Professional Societies

American Association of Physics Teachers
http://www.aapt.org/

American Chemical Society. Chemical Education Division.
http://www.divched.org/

American Chemical Society. Physical Chemistry Division.
http://hackberry.chem.trinity.edu/PHYS/

American Institute of Physics (AIP)
http://www.aip.org/

American Physical Society (APS)
http://www.aps.org/

Biophysical Society
http://www.biophysics.org/

Deutsche Physikalische Gesellschaft = German Physical Society (in German)
http://www.dpg-physik.de/index.html

European Federation of Biophysics
http://www.efbfweb.org/

European Physical Society (EPS)
http://www.eps.org/

European Society for Applied Physical Chemistry (EuroStar)
http://www.eurostar-science.org/

Federation of Asian Chemical Societies (FACS)
http://www.facs-as.org/

Institute of Physics (IoP)
http://www.iop.org/

International Association of Mathematical Physics
http://www.iamp.org/

International Union for Pure and Applied Biophysics
http://iupab.org/

International Union of Pure and Applied Chemistry
http://www.iupac.org/

International Union of Pure and Applied Physics
http://www.iupap.org/

Max Planck Society
http://www.mpg.de/english/portal/index.html

Swiss Physical Society
http://www.sps.ch/en/spg/

For links to more organizations, please see:
http://library.stanford.edu/depts/swain/help/subjectguides/general/comm/organizations.html

Educational Resources

Journal of Chemical Education Online
http://www.jce.divched.org/index.html

> **JCE Digital Library**
> http://www.jce.divched.org/JCEDLib/WebWare/index.html
> Do keyword search in search box on left side.
>
> **Journal of Chemical Education - JCE Web Software**
> http://www.jce.divched.org/JCESoft/jcesoftsubscriber.html
> Available via subscription to Stanford users.
>
> **JCE - DigiDemos -- Browse Table of Contents**
> http://www.jce.divched.org/JCEDLib/DigiDemos/browse.html
> Includes brief descriptions of demos & provides links to full text in JCE.

Chemical Education Digital Library
http://www.chemeddl.org/
The ChemEd DL has its foundation built upon the Journal of Chemical Education, the Education Division of the American Chemical Society, and the ChemCollective Project. Includes resources for education that span the entire science of chemistry.

comPADRE: Digital Resources for Physics & Astronomy Education
http://www.compadre.org/portal/index.cfm
The comPADRE Pathway, a part of the National Science Digital Library, is a growing network of educational resource collections supporting teachers and students in Physics and Astronomy.

> **The Quantum Exchange**
> http://www.compadre.org/quantum/

The Physical Sciences Resource Center
http://psrc.aapt.org/index.cfm
The Physical Sciences Resource Center is a web-based databank that provides K-20 teachers links to a wide range of teaching and learning resources in the physical sciences. All materials are classified by their grade level, topic, and activity type, and have descriptions outlining their content. Information about authors, publishers, costs, and copyright is also provided.

MERLOT: Multimedia Educational Resource for Learning & Online Teaching
http://www.merlot.org/merlot/index.htm
MERLOT is a leading edge, user-centered, searchable collection of peer reviewed and selected higher education, online learning materials, catalogued by registered members and a set of faculty development support services.

MERLOT Federated Search
http://fedsearch.merlot.org/search.jsp

MERLOT Chemistry Portal
http://chemistry.merlot.org/

MERLOT Physics Portal
http://physics.merlot.org/

Encyclopedias and Major Reference Works

Encyclopedia of Chemical Physics and Physical Chemistry, 3 vols. (2001)
http://www.knovel.com/knovel2/Toc.jsp?BookID=474&VerticalID=0
Published by the Institute of Physics, this encyclopedia quickly provides the basics, defines the scope of each subdiscipline, and indicates where to go for a more complete and detailed explanation.

Encyclopedia of Computational Chemistry
http://www3.interscience.wiley.com/cgi-bin/mrwhome/104554772/HOME
The Encyclopedia of Computational Chemistry (ECC) is a timely, comprehensive and authorative work. ECC is divided into these broad subject areas: Algorithms and Software, Biological and Biochemical Modeling, Chemical Applications, Cheminformatics, General Topics, Quantum Mechanics: Theory & Development, and Semi-Classical Methods.

Encyclopedia of Nuclear Magnetic Resonance, 9 vols. (1996-2002)
Swain Reference QC762 .E53 1996
This encyclopedia is a comprehensive resource for anyone seeking information on any aspect of NMR, with emphasis on its interdisciplinary nature.

Landolt-Börnstein - Numerical Data and Functional Relationships in Science and Technology
LB brings the work of a thousand experts from all over the world right to your desk. The more than 340 voumes cover data starting with the scientific information described before 1883 – the year of the first handbook publication – up to the present. LB is a systematic and comprehensive data collection developed from researchers in discovering functional relationships in science and technology. LB covers all fields of physics, physical chemistry, geophysics, astronomy, material technology, and engineering.

- **Landolt-Börnstein** – Indices
  http://landoltboernstein.com/
  Includes keyword search, Substance & Property Index, Subject Index, and LB Users Guide

- **Landolt-Börnstein - Group I Elementary Particles, Nuclei and Atoms**
  http://www.springerlink.com/content/h4767v
  Physics Library Reference: QC61 .L332 GROUP 1 Vols. 1-14, 16-18
  Online: Vols. 19A2, 19B1-3

- **Landolt-Börnstein - Group II Molecules and Radicals**
  http://www.springerlink.com/content/v1g48m
  Physics Library Reference: QC61 .L332 GROUP 2 Vols. 1-26
  Swain Library Reference: QC61 .L332 GROUP 2 Vols. 1-5
  Online: Vols. 24D2, 26A1-2, 26D, 28A-D

- **Landolt-Börnstein - Group III Condensed Matter**
  http://www.springerlink.com/content/j6q060
  Physics Library Reference: QC61 .L332 GROUP 3 Vols. 1-18; [19]; 20-43
  Swain Library Reference: QC61 .L332 GROUP 3 Vols. 2-6; [7]; 8
  Online: Vols. 27B7, 27I2-I5A, 34C3, 35D2-4, 43A2-A5

- **Landolt-Börnstein - Group IV Physical Chemistry**
  http://www.springerlink.com/content/h32673
  Physics Library Reference: QC61 .L332 GROUP 4 Vols. 1-21
  Online: Vols. 9A, 10B, 11A2-4, 11B, 11C1-4, 12A, 13A1, 14D, 15A, 19B3-5

- **Landolt-Börnstein - Group V Geophysics**
  http://www.springerlink.com/content/r1n7l1
  Branner Earth Sciences Library Reference: QC61 .L332 GROUP 5 Vols. 1-6
  Online: Vol. 6

- **Landolt-Börnstein - Group VI Astronomy and Astrophysics**
  http://www.springerlink.com/content/k36534
  Physics Library Reference: QC61 .L332 GROUP 6 Vols. 1-3
  No online volumes are available at Stanford.

- **Landolt-Börnstein - Group VII Biophysics**
  http://www.springerlink.com/content/k43316
  Swain Library Reference: QC61 .L332 GROUP 7 Vols. 1-2
  No online volumes are available at Stanford.

- **Landolt-Börnstein - Group VIII Advanced Materials and Technologies**
  http://www.springerlink.com/content/l4092t
  Physics Library Reference: QC61 .L332 GROUP 8 Vols. 2-3, 5
  Online Vol. 2A (2002)-

Guides to Resources / Web Gateways

Center for the History of Physics – American Institute of Physics
http://www.aip.org/history/
AIP's Center for History of Physics works to preserve and make known the historical record of modern physics and allied sciences. Through documentation, archival collections and educational initiatives, the Center ensures that the heritage of modern physics is safeguarded and its story accurately told.

Intute: Science, Engineering, and Technology
http://www.intute.ac.uk/sciences/
Welcome to the Science, Engineering and Technology pages of Intute. Intute: Science, Engineering and Technology is a free online service providing you with access to the very best Web resources for education and research, evaluated and selected by a network of subject specialists. It covers the physical sciences, engineering, computing, geography, mathematics and environmental science. The database currently contains 34939 records.

MathWorld
http://mathworld.wolfram.com/
The web's most extensive mathematical resource, provided as a free service to the world's mathematics and internet communities as part of a commitment to education and educational outreach by Wolfram Research, makers of Mathematica. MathWorld has been assembled over more than a decade by Eric W. Weisstein with assistance from thousands of contributors.

Physical chemistry source book.
Swain Reference QD451 .P49 1988

PhysLink: Physics and Astronomy Online
http://www.physlink.com/
The PhysLink.com is a comprehensive physics and astronomy online education, research and reference web site. In addition to providing high-quality content, PhysLink.com is a meeting place for professionals, students and other curious minds.

PhysNet
http://www.phys.vt.edu/PhysNet/physnet.html
PhysNet is a distributed information service. It uses the information which can be found on the web-servers of the worldwide distributed physics institutions and departments of universities seen as a distributed database. PhysNet serves only professional specific information posted by the scientists themselves. Therefore PhysNet complements the services of commercial providers.

Handbooks and Data

ChemRate: A Calculational Data Base for Unimolecular Reaction
http://www.nist.gov/kinetics/chemrate/chemrate.html
ChemRate is a program that contains data bases containing experimental results on unimolecular reactions, information pertaining to transition state and molecular structures necessary for the calculation of high pressure rate constants and thermal functions respectively. It contains a master equation solver so that rate constants for unimolecular reactions in the energy transfer region and chemical activation processes under steady and non-steady state conditions can be determined on the basis of RRKM theory.

CRC Handbook of Chemistry and Physics
http://www.hbcpnetbase.com/
The CRC Handbook of Chemistry and Physics provides broad coverage of all types of physical science data commonly encountered by scientists and engineers. The data contained in the Handbook have been carefully evaluated by experts in each field; quality control is a high priority and the sources are documented. Updated annually.

Kaye & Laby Online: Tables of Physical and Chemical Constants
http://www.kayelaby.npl.co.uk/
For many years, scientists, specialists, engineers and students have used Kaye and Laby as an invaluable reference for their work. At launch, this online version includes the entire, unedited contents of the 16th edition (published 1995) and is crammed full of tables of data, formulae, graphs and charts. This information spans topics from fundamental constants to fibre optics, superconductivity to Raman spectroscopy and many others. The contents will be regularly reviewed and updated to reflect advances and developments in the fields of physics and chemistry.

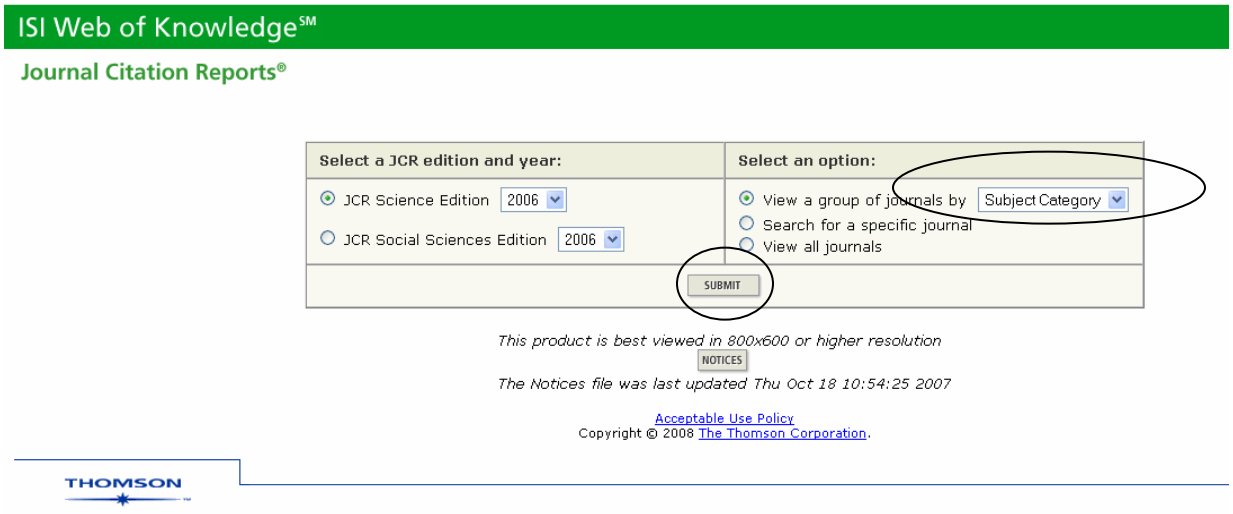
NIST Chemical Kinetics Database on the Web
http://kinetics.nist.gov/kinetics/index.jsp
The NIST Chemical Kinetics Database includes essentially all reported kinetics results for thermal gas-phase chemical reactions. The database is designed to be searched for kinetics data based on the specific reactants involved, for reactions resulting in specified products, for all the reactions of a particular species, or for various combinations of these. The bibliography can be searched by author name or combination of names. The database contains in excess of 38,000 separate reaction records for over 11,700 distinct reactant pairs. These data have been abstracted from over 12,000 papers with literature coverage through early 2000.

NIST Chemistry WebBook
http://webbook.nist.gov/chemistry/
The NIST Chemistry WebBook provides users with easy access to chemical and physical property data for chemical species through the internet. The data provided in the site are from collections maintained by the NIST Standard Reference Data Program and outside contributors..

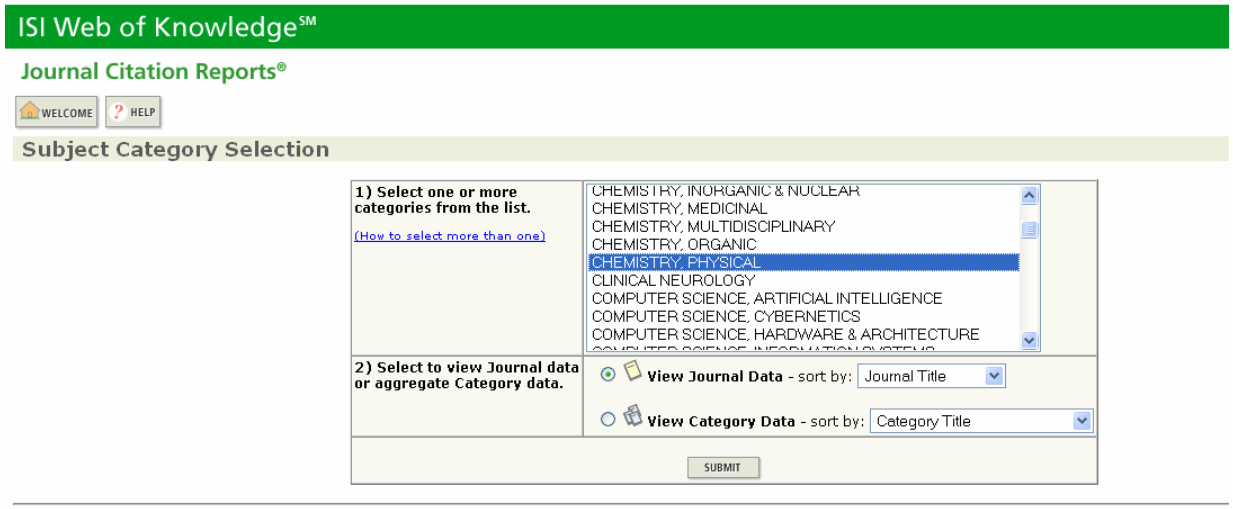
NIST Computational Chemistry Comparison and Benchmark Database
http://cccbdb.nist.gov/
The NIST Computational Chemistry Comparison and Benchmark Database is a collection of experimental and ab initio thermochemical properties for a selected set of molecules. The CCCBDB contains links to: Experimental and computational thermochemical data for a selected set of 788 gas-phase atoms and molecules. It also contains tools for comparing experimental and computational ideal-gas thermochemical properties.

Journals

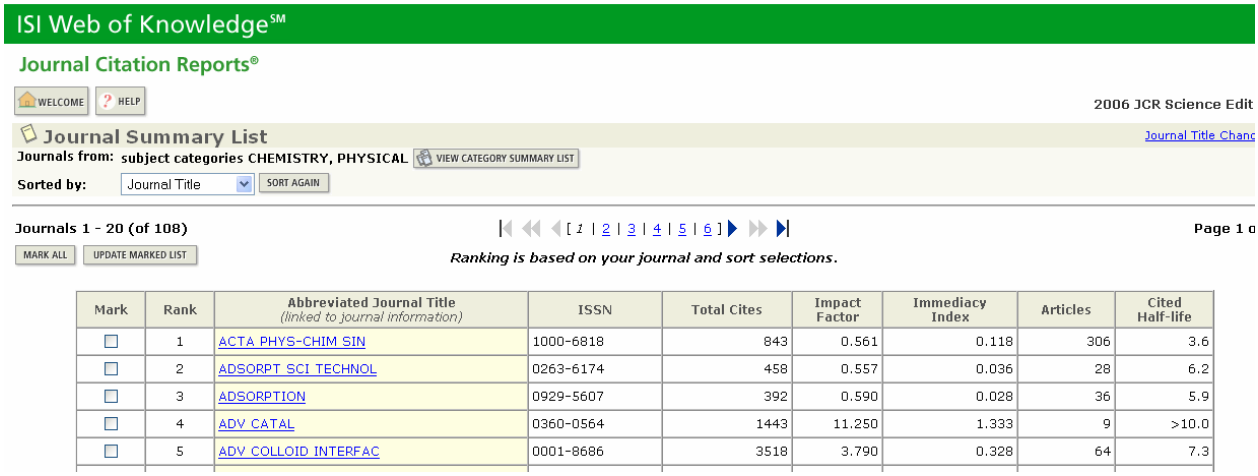
Journal Citation Reports
http://ezproxy.stanford.edu:2048/login?url=http://portal.isiknowledge.com/portal.cgi?DestApp=JCR&Func=Frame
The JCR is a tool that you can use to identify core journals for a particular subject area. On next the two pages is a sample search showing how to view physical chemistry journals listed in JCR.



Highlight subject category name.

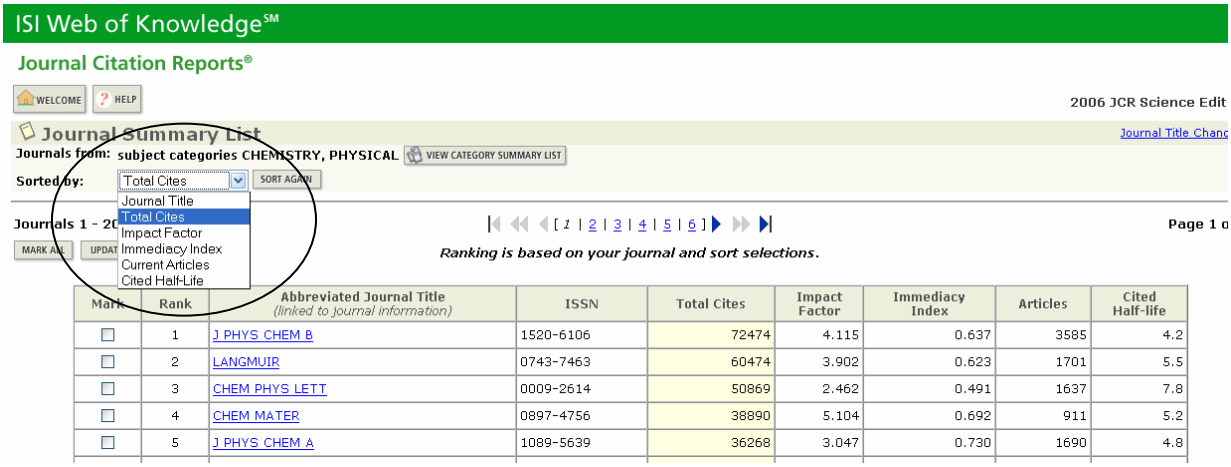


Sorted by Journal Title

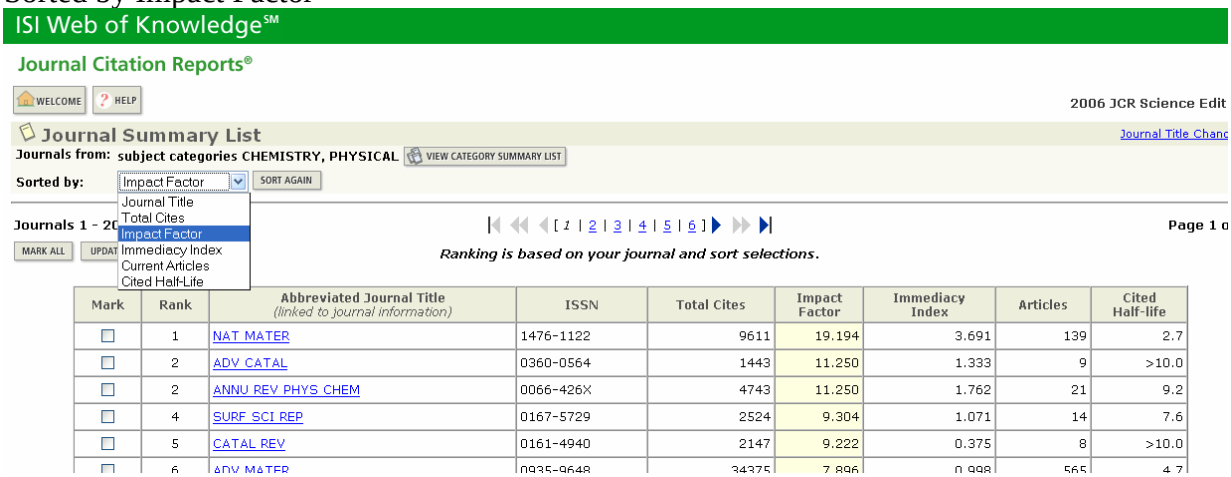


Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor	Immediacy Index	Articles	Cited Half-life
☐	1	ACTA PHYS-CHIM SIN	1000-6818	843	0.561	0.118	306	3.6
☐	2	ADSORPT SCI TECHNOL	0263-6174	458	0.557	0.036	28	6.2
☐	3	ADSORPTION	0929-5607	392	0.590	0.028	36	5.9
☐	4	ADV CATAL	0360-0564	1443	11.250	1.333	9	>10.0
☐	5	ADV COLLOID INTERFAC	0001-8686	3518	3.790	0.328	64	7.3

Sorted by Times Cited



Sorted by Impact Factor



Swain Journal List
http://library.stanford.edu/depts/swain/collections/journallist.html
Use Socrates (http://library.stanford.edu/socrates), Stanford's Library Catalog, to find all journal titles available at Stanford. Socrates includes links to online versions of journals and holdings information that shows what volumes and years are available for a title. Socrates does not contain details about individual journal articles.

Journal Abbreviations and Digital Object Identifiers
http://library.stanford.edu/depts/swain/collections/journals.html#abbrev
To find or translate journal abbreviations to full journal name, please see this web page. It also contains information about Digital Object Identifiers – what are they, how to find a DOI for a document, and how to translate a DOI into a citation.

Nomenclature and Standards

IUPAC Nomenclature Home Page
http://www.chem.qmul.ac.uk/iupac/
This World Wide Web site is intended primarily to provide information on IUPAC nomenclature recommendations. The full text version of documents will be converted into a Web readable form which may also involve some reorganization to facilitate presentation.

NIST Reference on Constants, Units, and Uncertainty
http://physics.nist.gov/cuu/index.html
This site addresses three topics: fundamental physical constants, the International System of Units (SI), which is the modern metric system, and expressing the uncertainty of measurement results.

ThermoML
http://old.iupac.org/namespaces/ThermoML/index.html
ThermoML is the reserved namespace for the XML-based IUPAC standard for experimental and critically-evaluated thermodynamic property data storage. It covers essentially all experimentally determined thermodynamic and transport property data (more than 120 properties) for pure compounds, multicomponent mixtures, and chemical reactions (including change-of-state and equilibrium).

Style Guides

ACS Style Guide, 3rd Edition (2006)
Swain Permanent Reserve QD8.5 .A25 2006 (request at Swain's Circulation Desk)
This extensive revision of The ACS Style Guide examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet.

The ACS Style Guide's third edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The third edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

AIP Style Manual, 4th Edition (1997)
http://www.aip.org/pubservs/style/4thed/toc.html
For guidance in writing, editing, and preparing physics manuscripts for publication. Prepared under the direction of the AIP Publication Board. Images of the Fourth Edition of the AIP Style Manual are available free-of-charge for downloading from this site in Adobe's Portable Document Format (PDF)