



## Library CHEMISTRY Resources

<http://www.library.astate.edu>

Many types of resources are available to you through the Dean B. Ellis Library. This guide is intended to help you find both print and online chemistry resources. Please note: this guide is only a starting point for your research. It is not meant to be a comprehensive list of resources. If you need further assistance, please visit the Information Desk in the library.

### Finding Books In The Dean B. Ellis Library

All books in the library are arranged by subject using the Library of Congress classification system for call numbers and subject headings. The call number for chemistry begins with "QD". The basic breakdown is as follows:

QD1 – QD65	-	Chemistry (general)
QD71 – QD142	-	Analytical Chemistry
QD146 – QD197	-	Inorganic Chemistry
QD241 – QD441	-	Organic Chemistry
QD415 – QD436	-	Biochemistry

The numbers that follow the beginning letters relate to a narrower scope of the subject. For example: consider the subject headings with specific book call numbers, Chemistry (QD31.2 .E22 2008) vs. Environmental Chemistry (TD193 .N49 2007). Occasionally a totally different call number will appear. For the latter call number, the item is more about the environment and higher importance was given to this subject when the call number was assigned.

### Selected Reference Books

*The reference collection is located on the second floor of the library.*

Bruno, Thomas J., and Paris Svoronos. Handbook of Basic Tables for Chemical Analysis. 2<sup>nd</sup> ed. Boca Raton, FL: CRC, 2003. **REF QD78 .B78 2003**

Considine, Glenn D., ed. Van Nostrand's Chemical Encyclopedia. Hoboken, NJ: Wiley-Interscience, 2005. **REF QD4 .V36 2005**

CRC Handbook of Chemistry and Physics. Cleveland, OH: CRC, 2004-05. **REF QD65 .H3 2004-05**

Douville, Judith A. Literature of Chemistry: Recommended Titles for Undergraduate Chemistry Library Collections. Chicago: Association of College and Research Libraries, Division of the American Library Association, 2004. **REF Z675 .C47 D68 2004**

Enghag, Per. Encyclopedia of the Elements: Technical Data, History, Processing, Applications. Weinheim, Germany: Wiley-VCH, 2004. **REF QD466 .E56 2004**

Holland, H. D. and K. K. Turekian, eds. Treatise on Geochemistry. 10 vols. Boston: Elsevier, 2004. **REF QE515 .T64 2004**

King, R. Bruce, ed. Encyclopedia of Inorganic Chemistry. 2<sup>nd</sup> ed. 10 vols. Hoboken, NJ: Wiley, 2005.  
**REF QD148 .E53 2005**

Lagowski, J. J., ed. Chemistry Foundations and Applications. 4 vols. New York: Macmillan, 2004.  
**REF QD4 .C48 2004**

Merk Index: An Encyclopedia of Chemicals, Drugs and Biologicals. Whitehouse Station, NJ: Merck, 1996. **REF RS51 .M4 1996**

Lennarz, William J., and Daniel Lane, eds. Encyclopedia of Biological Chemistry. 4 vols. Boston: Elsevier, 2004. **REF QD415 .A25 E53 2004 (abstract shelves)**

NMR Chemical Shift Index. 6 vols. Philadelphia: Sadtler Research Laboratories, 1972-1976.  
**REF QC762 .S32 (abstract shelves)**

Sadtler Ultra Violet Spectra. 170 vols. Philadelphia: Sadtler Research Laboratories, 1972-1996.  
**REF QC459 .S301 (abstract shelves)**

Standard Grating Spectra. 51 vols. Philadelphia: Sadtler Research Laboratories, 1966-1976.  
**REF QD95 .S301 (abstract shelves)**

Standard Infrared Grating Spectra. 71 vols. Philadelphia: Sadtler Research Laboratories, 1977-1996.  
**REF QD95 .S302 (abstract shelves)**

Standard Spectra Collection: Indexes. Philadelphia: Sadtler Research Laboratories, 1980-1996.  
**REF QD95 .S305 (abstract shelves)**

## **Current Books That Can Be Checked Out**

*You can use the call number to browse the shelf for similar materials. These books are labeled "General Collection" in the online catalog and are located on the third, fourth, and fifth floors of the library. If the books are checked out you may place a recall or hold at the Circulation Desk.*

Bevelacqua, Armando S. Hazardous Materials Chemistry. Clifton Park, NY: Thomson, 2006.  
**QD33 .B48 2006**

Field, Simon. Why There's Antifreeze in Your Toothpaste: The Chemistry of Household Ingredients. Chicago, IL: Chicago Review P, 2008. **QD471 .F565 2008**

Hites, Ronald. Elements of Environmental Chemistry. Hoboken, NJ: Wiley-Interscience, 2007.  
**TD193 .H58 2007**

Hites, Ronald, ed. Persistent Organic Pollutants in the Great Lakes. New York: Springer, 2006.  
**TD420 .P32 2006**

Sarker, Satyajit D. Chemistry for Pharmacy Students: General, Organic, and Natural Product Chemistry. Hoboken, NJ: John Wiley & Sons, 2007. **QD31.3 .S377 2007**

Vollkman, John K. ed. Marine Organic Matter: Biomarkers, Isotopes, and DNA. New York: Springer, 2006. **GC118 .M21 2006**

## Online Databases, Indexes & Abstracts

Some of these databases provide the full text of the articles, while others provide only citations and/or abstracts. All are accessed by clicking on the "Article Databases" link from the library homepage.

Database	Full Text	Other Information
Academic Search Complete	Some	Broad subject database with good focus on science and chemistry
Biological Abstracts	Some	Includes the chemical aspects of biology
General Science	Some	Includes good focus on chemistry
GreenFILE	Some	Environmental aspects of chemistry
IOP Science	All	Broad science coverage including chemistry
Proceedings of the National Academy of Sciences of the United States of America	Some	Some articles available full text
ScienceDirect	Some	Searches can be limited to full text articles (these journals are subscribed by ASU)
SciFinder Scholar (Chemical Abstracts)	No	Provides citations and a variety of chemical compound information
Scitopia	No	Citations: 15 science and technology societies
SDBS Compounds and Spectral	N/A	Compound and Spectral Data
Web of Science	No	Includes cited references

## Available Print Journals In The Dean B. Ellis Library

Print journals from 1980 to present are located on the second floor in the tower and are shelved alphabetically by the title of the journal.

Analytical Chemistry	Journal of Applied Electrochemistry
Bioconjugate Chemistry	Journal of Chemical Education
Chemical Communications (Cambridge)	Journal of Materials Chemistry
Chemical Reviews	Journal of Organic Chemistry
Chemical Week	New Journal of Chemistry
Inorganic Chemistry	Physical Chemistry Chemical Physics : PCCP

## Currently Available Online Journals

Online journals are accessed via the library's web page by clicking on "Electronic and Print Journals Catalog".

Online Journal Title	Available Through
Analytical Biochemistry	ScienceDirect Journals
Biochemistry	American Chemistry Society Web Editions
Bioorganic & Medicinal Chemistry	ScienceDirect Journals
Bioorganic Chemistry	ScienceDirect Journals
Chemistry and Physics of Lipids	ScienceDirect Journals
Chemistry in Ecology	InformaWorld
Chemistry of Materials	American Chemical Society Web Editions
Computational Biology and Chemistry	ScienceDirect Journals
Journal of Physical Chemistry. A;B;C	American Chemical Society Web Editions

## Government Information Resources

*Government Information Resources are located on the 3<sup>rd</sup> floor in the Government Documents Department.*

Breault, Robert F. Residential Street-Dirt Accumulation Rates and Chemical Composition, and Removal Efficiencies by Mechanical and Vacuum-Type Sweepers, New Bedford, Massachusetts, 2003-04. Reston, VA: U.S. Dept. of the Interior, 2005. **I 19.42/4-4: 2005-5184**

United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs. Is the Federal Government Doing Enough to Secure Chemical Facilities and Is More Authority Needed?: Hearing Before the Committee on Homeland Security and Governmental Affairs, United States Senate, One Hundred Ninth Congress, First Session, June 15, 2005. [Microfiche]. Washington: GPO, 2005. **Y 4.G 74/9:S.HRG. 109-175**

## Web Sites - Government

<http://saga.pmel.noaa.gov/> Atmospheric Chemistry and Global Homepage  
<http://www.nsf.gov/mps/divisions/che/start.htm> Division of Chemistry  
<http://www.epa.gov/greenchemistry/> Green Chemistry  
<http://vm.cfsan.fda.gov/~dms/chemist.html> Library of Chemistry Information  
<http://www.cdc.gov/niosh/npg/> NIOSH Pocket Guide to Chemical Hazards (NPG)  
<http://webbook.nist.gov/chemistry/> NIST Chemistry WebBook  
[http://www.science.gov/browse/w\\_129A.htm](http://www.science.gov/browse/w_129A.htm) Science.gov (chemistry and chemicals)  
<http://publications.nigms.nih.gov/chemhealth/> The Chemistry of Health  
<http://minerals.cr.usgs.gov/gips/aii-home.htm> Understanding Our Planet Through Chemistry  
<http://chemconnections.llnl.gov/websters/> WEB-sters' Organic Chemistry

## Web Sites – Other Chemistry Related

<http://chemfinder.cambridgesoft.com/> ChemFinder databases and internet searching  
<http://www.chemweb.com/> ChemWeb databases  
[http://www.iupac.org/index\\_to.html](http://www.iupac.org/index_to.html) IUPAC website  
<http://www.chemhelper.com/> Organic Chemistry Help  
<http://www.chemistry.org/portal/a/c/s/1/home.html> Website of the American Chemical Society

## Media

*All media items are located in the Media Services department on the first floor of the library.*

Balbus, John, Vince Clews, and Sherri Umansky. Tap Into Prevention: Drinking Water Information for Health Care Providers. DVD. Washington: U.S. Environmental Protection Agency, Office of Ground Water and Drinking Water, 2004. **EP 1.104:T 16/2/DVD**

Calvert, Pamela. The Beloved Community. (Chemical Industry-Environment). DVD. San Fransisco, CA: California Newsreel, 2006. **TD182.4 .06 B45 2006**

Chemical Issues and the Athlete. Videocassette. New York: Insight Media, 2005. **RC1230 .C44 2005**

Norberg-King, Teresa J. Toxicity Reduction and Toxicity Identification Evaluations for Effluents, Ambient Waters, and Other Aqueous Media. CD-ROM-Closed Shelf, Circulation Desk. Pensacola, FL: Society of Environmental Toxicology and Chemistry, 2005. **QH541.15 .T68 W67 2005**