

## **CHEMISTRY**

This is a guide to the Library's collection in Chemistry. It is not comprehensive, but rather provides a good starting point for research. From these sources, you may be able to locate other related works. Please don't hesitate to ask a librarian if you need further assistance.

### **Subject Headings:**

Chemistry	Chemistry, Analytic
Chemistry, Inorganic	Chemistry, Metallurgic
Chemistry, Physical and Theoretical	Science

### **Call Numbers For Browsing:**

QD 71-142	Analytical Chemistry	QD 146-197	Inorganic Chemistry
QD 241-441	Organic Chemistry	QD 450-731	Physical and Theoretical Chemistry
TP 1-1185	Chemical Technology		

### **Databases:**

*Academic OneFile* – Comprehensive database with millions of articles from journals and other reference sources

*AP Science* – Articles from over 500 titles covering earth, life, physical, medical, and applied sciences.

*Biological and Agricultural Index* – Articles on biological and agricultural topics such as agricultural chemicals, economics, engineering, and research, animal sciences, biotechnology, botany, ecology, environmental science, fishery sciences, forestry, genetics, microbiology, veterinary medicine, wildlife management, zoology, etc. Includes graphs, charts, diagrams, photographs, and illustrations.

*InfoTrac Science* – Includes millions of articles from over 1,600 magazines, journals and reference materials on all aspects of the sciences.

*OmniFile Mega* – General database with information on a variety of topics including education, science, humanities, social sciences, and more. Indexes and abstracts to over 3,800 titles, with over 2,000 full-text titles. Contains all of the indexes, abstracts, and full-text articles from the Business Index, Education Index, Science Index, Humanities Index, Readers' Guide Index, and Social Sciences Index.

*Science Index* – Articles on science topics such as astronomy, atmospheric science, biology, chemistry, earth science, food and nutrition, genetics, health and medicine, mathematics, physics, physiology, and more.

### **Journals:**

*Chemical and Engineering News*                      *Chemical Engineering*                      *Journal of Chemical Education*

### **Reference Books:**

Ballentyne, Denis William George. *Dictionary of Named Effects and Laws in Chemistry, Physics, and Mathematics*. New York: Chapman and Hall, 1980. **Ref QD 5 .B32 1980**

Clark, Tim. *Handbook of Computational Chemistry*. New York: Wiley, 1985. **Ref QD 461 .C52 1985**

*CRC Handbook of Chemistry and Physics*. Cleveland, OH: CRC, 2006. **Ref QD 65 .H3 2009-2010**

Furr, A. Keith. *CRC Handbook of Laboratory Safety*. Boca Raton: CRC, 2000. **Ref QD 51 .C73 2000**

Howard, Philip H. *Dictionary of Chemical Names and Synonyms*. Boca Raton: Lewis, 1992. **Ref TP 9 .H65 1992**

Kroschwitz, J. Kirk-Othmer *Concise Encyclopedia of Chemical Technology*. New York: Wiley, 1999. **Ref TP 9 .K54 1999**

Lagowski, Joseph J., ed. *Macmillan Encyclopedia of Chemistry*. New York: Macmillan, 1997. **Ref QD 4 .M33 1997 (4 vols.)**

### **More Reference Books:**

Newton, David E. *Chemical Elements: From Carbon to Krypton*. Detroit: UXL, 1999. **Ref QD 466 .N464 1999 (3 vols.)**

Orchin, Milton. *Vocabulary of Organic Chemistry*. New York: Wiley, 1980. **Ref QD 291 .C55 1980**

Paquette, Leo A. *Encyclopedia of Reagents for Organic Synthesis*. New York: Wiley, 1995. **Ref QD 77 .E53 1995 (8 vols.)**

Parker, Sybil P., ed. *McGraw-Hill Encyclopedia of Chemistry*. New York: McGraw-Hill, 1993. **Ref QD 5 .M36 1993**

Perry, Robert H. *Perry's Chemical Engineers' Handbook*. New York: McGraw-Hill, 1997. **Ref TP 151 .P45 1997**

Young, Robyn V., ed. *World of Chemistry*. Detroit, MI: Gale Group, 2000. **Ref QD 33 .W873 2000**

### **Videos:**

<i>Super-Charged World of Chemistry</i>	<b>QD 31.2 .S87 1996 (Parts 2 and 3)</b>
<i>Intermediate H.N.M.R. Spectroscopy</i>	<b>QC 457 .I589 1995</b>
<i>Transition Metals</i>	<b>QD 172.T6 T6 1995</b>
<i>Chemical Equilibrium</i>	<b>QD 501 .C444 1992 (Tapes 2, 3, and 5)</b>
<i>Chemical Reactions</i>	<b>QD 38 .C58 2000X</b>
<i>Electrochemistry</i>	<b>QD 553 .E443 1992 (2 Tapes)</b>
<i>Practical Techniques in Organic Chemistry</i>	<b>QD 253 .P738 1992 (Tapes 3 and 4)</b>
<i>Your Career in Chemistry</i>	<b>Popular QD 39.5 .Y68 1997</b>
<i>Chemistry of Organisms</i>	<b>QP 514.2 .C4 1986</b>
<i>Molecular Building Blocks of Life</i>	<b>QH 506 .M67 1996 (6 Tapes)</b>
<i>Organic Chemistry</i>	<b>Popular QD 251.2 .O8 1997</b>
<i>World of Chemistry</i>	<b>QD 31.2 .W65 1990 (26 Tapes)</b>

### **E-Books (Available Via NetLibrary and Knovel):**

*Physical Characterization of Pharmaceutical Solids*  
*Schaum's Outline of Theory and Problems of Organic Chemistry*  
*Handbook of Fiber Chemistry*  
*Fundamental Physics and Chemistry: Imperatives for the Decades 1995 to 2015*  
*Techniques and Mechanisms in Electrochemistry*  
*Mechanochemistry of Materials*  
*Phytochemicals: a New Paradigm*  
*Voyages in Conceptual Chemistry*  
*General Aspects of the Chemistry of Radicals*  
*Chemical Sciences in the Modern World*

### **Internet Sites:**

Yahoo! Directory: Chemistry	<a href="http://dir.yahoo.com/Science/Chemistry">http://dir.yahoo.com/Science/Chemistry</a>
Links for Chemists	<a href="http://www.liv.ac.uk/Chemistry/Links/links.html">http://www.liv.ac.uk/Chemistry/Links/links.html</a>
Ask a Scientist Archive – Chemistry	<a href="http://www.newton.dep.anl.gov/askasci/chem98.htm">http://www.newton.dep.anl.gov/askasci/chem98.htm</a>
About.com's Chemistry Guide	<a href="http://chemistry.about.com">http://chemistry.about.com</a>
Beyond Discovery	<a href="http://www.beyonddiscovery.org">http://www.beyonddiscovery.org</a>
Chemdex Directory	<a href="http://www.chemdex.org">http://www.chemdex.org</a>
Chemistry Place	<a href="http://www.aw-bc.com/chemplace">http://www.aw-bc.com/chemplace</a>
Chem I: Virtual Textbook	<a href="http://www.chem1.com/acad/webtext/abcon">http://www.chem1.com/acad/webtext/abcon</a>
Chemistry Hypermedia Project	<a href="http://www.chem.vt.edu/chem-ed/vt-chem-ed.html">http://www.chem.vt.edu/chem-ed/vt-chem-ed.html</a>
Chemistry for Kids	<a href="http://www.chem4kids.com">http://www.chem4kids.com</a>
General Chemistry Online	<a href="http://hmchem.cubicsci.com">http://hmchem.cubicsci.com</a>
Her Lab in Your Life: Women in Chemistry	<a href="http://www.chemheritage.org/women_chemistry">http://www.chemheritage.org/women_chemistry</a>
Forgotten Genius	<a href="http://www.pbs.org/wgbh/nova/julian">http://www.pbs.org/wgbh/nova/julian</a>
Fireworks!	<a href="http://www.pbs.org/wgbh/nova/fireworks">http://www.pbs.org/wgbh/nova/fireworks</a>
Explore the History of Chemistry	<a href="http://www.chemheritage.org/explore/explore.html">http://www.chemheritage.org/explore/explore.html</a>