



PHYSICAL SCIENCES

Applied Science and Technology Abstracts

<http://www.lib.iastate.edu/collections/db/astixx.html>

Applied Science and Technology Abstracts (ASTI, formerly Applied Science and Technology Index), produced by the H. W. Wilson Company, provides access to more than 625,000 citations and abstracts in applied science areas such as engineering, materials science and biotechnology. ASTI indexes articles, reports of meetings, review articles, and book reviews dated 1983 to the present.

CHEMnetBASE

<http://www.chemnetbase.com/scripts/ccdweb.exe>

CHEMnetBASE is a collection of databases with information on chemical compounds. The entries include basic chemical names and formulas, identification information such as CAS Registry Numbers, physical properties of the substances, literature references, and other related information. The databases included are:

- Dictionary of Organic Compounds
- Dictionary of Natural Products
- Dictionary of Inorganic and Organometallic Compounds
- Dictionary of Drugs
- Dictionary of Commonly Cited Compounds
- Handbook of Chemistry and Physics
- Polymers: A Property Database
- Properties of Organic Compounds

CrossFire

<http://www.lib.iastate.edu/collections/db/beilst.html>

Beilstein and Gmelin databases are available as part of the **CrossFire** system.

The Beilstein database provides worldwide coverage of the literature relating to the preparations and properties of organic compounds and covers the literature from 1771 onwards. The contents and the data structure are based on the *Beilstein Handbook of Organic Chemistry*.

The Gmelin database, the most complete collection of structures, properties, and references to the literature in organometallic and inorganic chemistry, contains all the structural, factual, and bibliographic data cited in the *Gmelin Handbook of Inorganic and Organometallic Chemistry* from 1648 to 1975 and 110 top journals from 1975 to 1994.

This database requires downloading software to your desktop the first time you use it. Once you download the software, it will place an icon on your computer desktop. Subsequent uses only require clicking on the desktop icon. Downloading instructions can be found at www.library.wisc.edu:4001/. For assistance with downloading and for login ID and password,

contact Susan Knippel, Information Technology Division, Room 34 Parks Library, or 294-9650.

CSA Materials Research Database with METADEX

Cambridge Scientific Abstracts produces a variety of materials science and engineering related databases. They index the journal, conference, technical report, patent, and other associated literature of their areas.

- Aluminium Industry Abstracts <http://www.lib.iastate.edu/collections/db/alumin.html>
- Ceramic Abstracts/World Ceramics Abstracts
<http://www.lib.iastate.edu/collections/db/cerabw.html>
- Copper Data Center Database
<http://www.lib.iastate.edu/collections/db/copdat.html>
- Corrosion Abstracts <http://www.lib.iastate.edu/collections/db/corrab.html>
- Engineered Materials Abstracts
<http://www.lib.iastate.edu/collections/db/emacer.html>
- Materials Business File <http://www.lib.iastate.edu/collections/db/matbus.html>
- METADEX <http://www.lib.iastate.edu/collections/db/metade.html>
- WELDASEARCH <http://www.lib.iastate.edu/collections/db/weldas.html>

SciFinder Scholar

<http://www.lib.iastate.edu/collections/db/scifnd.html>

SciFinder Scholar is roughly equivalent to the computerized versions of Chemical Abstracts and MEDLINE. It includes journal articles, book chapters, patents, conference proceedings, technical reports, and dissertations as well as book reviews and biographical information. It contains a wealth of information on chemical substances and calculated properties. Chemical literature is covered from 1907 to the present, while medical literature is covered from 1965 to the present. Chemical reaction information is also now available from 1974 to the present. Beginning in 2001 and working backwards, information has now been added on cited references and records now contain hot links to many references and some full-text articles.

This database requires downloading software to your desktop the first time you use it. Once you download the software, it will place an icon on your computer desktop. Subsequent uses only require clicking on the desktop icon. Downloading instructions can be found linked to the database description page.

SPIN Web

<http://scitation.aip.org/spinweb/>

SPIN Web is the online version of the (*SPIN*) *Searchable Physics Information Notices* database. Publications back to 1975 are included in the database. It indexes about eighty journals in the fields of physics, astrophysics, and astronomy with about 50,000 citations added to the database each year.