

Chemistry Databases - Quick Overview - UC access only

These databases let you search for articles within hundreds of journals. Some articles may be full text; others will be in print. Use [UC-eLinks](#) to see if we own the article online or in print, or to request the article from another UC. Go to <http://library.ucsc.edu/science/> and then to the **Science Article Databases**

DATABASE	WHY USE IT? (scope)	SEARCH LIKE GOOGLE? *	SEARCH TIPS	STRENGTHS & WEAKNESSES
<i>SciFinder Scholar</i> Chemical Abstracts (1907-) Registry (1957-) CASREACT (1840-)	Chemical Abstracts Service (CAS) databases including Chemical Abstracts, Registry, and CASREACT. Note: Client version available for download; new Web version	X	<ul style="list-style-type: none"> Use plain English, specify 2 or 3 concepts Use prepositions instead of OR and AND Limit ahead by year, language, etc. 	<ul style="list-style-type: none"> 2007 version available, works with Vista operating system Includes records for patents, conference proceedings, preprints, etc. Web version works with OCA
<i>CrossFire Beilstein/Gmelin</i>	Includes structures, properties, bioactivity records, preparation details and specific reaction pathways. Note: available for download	X	<ul style="list-style-type: none"> Use predefined Search Forms Use Export Wizard to export citations. Remember to "Log Off" by choosing File/Exit. 	<ul style="list-style-type: none"> MDL ISIS/Draw required for structure searching Databases: Beilstein: organic chemistry / Gmelin: inorganic chemistry Does not work off campus!
<i>Web of Science</i> 1900-current	All subjects. Citation counts. Able to see who cited an article and sort by citation count.	✓ But truncation is not automatic	<ul style="list-style-type: none"> Truncation is * Can search simultaneously with BIOSIS. 	<ul style="list-style-type: none"> Conference papers not directly indexed. Different mix of sources than BIOSIS or Google Scholar. Easy to use with EndNote Web.
<i>PubMed*</i> 1966-current	Focus: medicine, pathogenic organisms, bioinformatics, genetics.	X Multiple words = looks for phrase as official subject heading.	<ul style="list-style-type: none"> Review article tab helpful. Extensive limits (see tab). Don't use truncation (*) or AND unless not satisfied. Ask Librarian for details. 	<ul style="list-style-type: none"> Smart search box does a lot of vocabulary work for you. Links to other NCBI databases *Only the UC version of PubMed has UC-eLinks
<i>ICSD: Inorganic crystal structure database</i> 1900-current	More than 103,679 inorganic structures, including pure elements, minerals, metals, and intermetallic compounds.	X	<ul style="list-style-type: none"> Search by entering up to 19 parameters such as authors, unit cell values, space group etc. Display 3D structures with CIF and Jmol 	<ul style="list-style-type: none"> References can be exported into Endnote Database will change from Demo to Full after first search. Works with OCA

*Google search syntax assumes an "AND" between words (all your words will be included, in any order). If you want a phrase to be searched intact (word order preserved) you must enclose it in quotes. Google also automatically stems or truncates search terms, when appropriate.

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DATABASE	WHY USE IT? (scope)	SEARCH LIKE GOOGLE? *	SEARCH TIPS	STRENGTHS & WEAKNESSES
<i>CSD: Cambridge Structural Database</i>	Contains published crystallographic data on organic, organometallic, and metal complex structures Note: Check out Disk 2712 2008	X	<ul style="list-style-type: none"> • ConQuest: search and information retrieval • Mercury: structure visualization • Vista: statistical analysis 	<ul style="list-style-type: none"> • 436,436 entries • Reflects the published literature • Official depository for crystal structure data for more than 80 journals. • Does not contain UC-eLinks

Other Resources:

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<i>Merck Index</i> 14 th ed. (2006) Available Online	Encyclopedia of chemicals, drugs, and biologicals that contains more than 10,000 monographs.	X	<ul style="list-style-type: none"> • Search for title in Cruzcat • In Basic search can use Text or Properties search 	<ul style="list-style-type: none"> • Requires ChemDraw ActiveX plugin (free) to use structure search. • Includes supplemental tables • Includes Organic Name Reactions (ONR) section
<i>ChemNetBase</i>	Contains online books such as the Combined Chemical Dictionary, Dictionary of Commonly Cited Compounds, etc.	X	<ul style="list-style-type: none"> • Search for title in Cruzcat 	<ul style="list-style-type: none"> • Requires download of free plugin to draw and upload graphical structure queries
<i>International Tables for Crystallography</i> 2006 Available Online	Articles and tables of data relevant to crystallographic research and to applications of crystallographic methods	N/A	<ul style="list-style-type: none"> • Search for title in Cruzcat 	<ul style="list-style-type: none"> • Not Searchable • Pages available in PDF & HTML

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