

With all of these databases, you can:

- Connect to the full text of the articles you find via UC-eLinks
- Export or import references to the bibliographic manager of your choice (EndNote, etc.)
- Set up search alerts to be notified when new articles of interest are added.

	Why Use?	Notes
SciFinder	<ul style="list-style-type: none"> • Set of connected databases that together allow you to search millions of chemistry journal articles, conference papers, patents, AND chemical substances and reactions. • Core resource for biochemistry, materials science, nanotechnology, chemical engineering, physics, environmental sciences, and biomedical sciences. • Search by author or topic, plus substance name or CAS registry number, structure, substructure, and reaction. • Information on registration, training resources: http://ucsd.libguides.com/scifinder 	<ul style="list-style-type: none"> • Requires a one-time registration, then login with that username and password with each use. • Does not work with WebVPN (Proxy and AnyConnect client VPN will work). • Natural language searching rather than “and/or” Booleans.
Web of Science	<ul style="list-style-type: none"> • Indexes millions of journal articles and conference proceedings in all science and engineering subjects (6,700+ journals). Excellent starting place for any topic search. • For each article, you get a list of the papers the authors cited, any papers that have since cited the article, and related articles based on common citations. 	<ul style="list-style-type: none"> • Can cross search with Inspec and Derwent Innovations Index (patents).
PubMed	<ul style="list-style-type: none"> • Covers the biomedical literature and related sciences (biochemistry, bionano- topics, biomaterials, etc). • Rich subject terms (MeSH) that help with searching and finding related articles. 	<ul style="list-style-type: none"> • The free www.pubmed.gov link will get you to most full text (via Proxy or VPN), but the UC version will get you to UC-eLinks.
Reaxys	<ul style="list-style-type: none"> • Database of 26 million substances with lots of property data, and 39 million reactions. Each property and reaction has at least one associated journal reference. • Search by substance name/CAS-RN, structure, substructure, reaction, or property values. Some author and topic searching as well. 	<ul style="list-style-type: none"> • Not as strong for keyword/topic or author searching. • Some overlap with SciFinder, but lots of unique content (indexes more properties). • Use with SciFinder for any substance or reaction searching.
Compendex	<ul style="list-style-type: none"> • Indexes engineering journals and conference proceedings. • Includes: chemical engineering, nanotechnology, materials science, and environmental science. 	<ul style="list-style-type: none"> • Can get list of citing papers for the article via Scopus (though we don't access to the full database).
Inspec	<ul style="list-style-type: none"> • Indexes journals and conference proceedings in physics, electrical engineering, and computer science. • Good for physical chemistry and nano- topics. 	<ul style="list-style-type: none"> • Can cross search with Web of Science.
Google Scholar	<ul style="list-style-type: none"> • Like Google, but searches scholarly literature at the article text level. • Good for quick searches and known items. 	<ul style="list-style-type: none"> • Limited options for sorting and refining searches.

And if you need more resources.... (NOT a complete list)

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| Books – Print and Online | <ul style="list-style-type: none">• All of our books are in Roger, the Library catalog – http://roger.ucsd.edu• Most of the books we currently acquire are online, including Wiley, Springer, American Chemical Society, Royal Society of Chemistry, Elsevier/Science Direct, etc.• Along with the catalog, you can also search within the full text of the books (and articles) at the publishers' websites. |
| Dissertations | <ul style="list-style-type: none">• Start with the Dissertations & Theses database.• UC dissertations from 1997 to date are free to download. Others can be requested. |
| Crystallographic Data | <ul style="list-style-type: none">• Cambridge Structural Database System (CSDS)<ul style="list-style-type: none">○ 800K+ small-molecule organic and metal-organic crystal structures, with property data and journal article references.○ Web version and "power user" version that can be downloaded.• Inorganic Crystal Structure Database<ul style="list-style-type: none">○ 177K+ inorganic crystal structure, with property data and article references• Powder Diffraction File (Library use only, in the GIS lab)<ul style="list-style-type: none">○ Powder diffraction and single crystal data, 354K entries (mostly inorganic)• International Tables for Crystallography |
| More Organic Chemistry Resources | <ul style="list-style-type: none">• Science of Synthesis<ul style="list-style-type: none">○ Reviews of reliable and effective 28K synthetic methods, with experimental procedures.• Organic Reactions<ul style="list-style-type: none">○ Reviews of 200K+ reactions, including scope/limitations, applications to synthesis, and experimental procedures.• e-EROS – Encyclopedia of Reagents for Organic Synthesis<ul style="list-style-type: none">○ In-depth information on 4500 reagents and catalysts.• Organic Syntheses<ul style="list-style-type: none">○ Another collection of synthetic methods, with all experimental procedures repeated for reproducibility and reliability.• MarInLit<ul style="list-style-type: none">○ Data and journal article references for marine natural products. |
| More Physical Property Data Resources | <ul style="list-style-type: none">• SciFinder and Reaxys are great starting places.• Knovel<ul style="list-style-type: none">○ Searches across handbooks and databases from multiple publishers.• CRCnetBASE<ul style="list-style-type: none">○ Includes Handbook of Chemistry & Physics, Combined Chemical Dictionary.• Merck Index<ul style="list-style-type: none">○ Property data for 10,000 significant compounds. |
| Background Information / Getting Started with New Topics | <p>Overviews of topics with bibliographies of articles for more reading. Some examples:</p> <ul style="list-style-type: none">• Kirk-Othmer Encyclopedia of Chemical Technology• Ullmann's Encyclopedia of Industrial Chemistry• Encyclopedia of Biological Chemistry• Encyclopedia of Inorganic Chemistry• Comprehensive Renewable Energy• Polymer Science: A Comprehensive Reference• Wiley Encyclopedia of Chemical Biology• Encyclopedia of Chemical Physics & Physical Chemistry |