

Some Free Resources on the Internet for Introducing Chemical Information

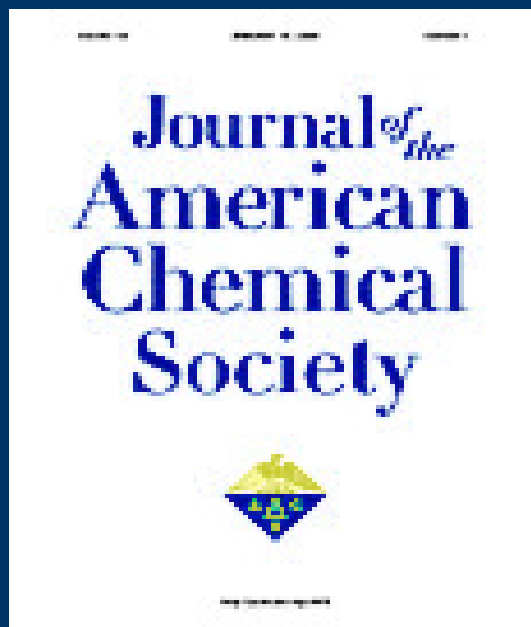
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Chemical Information Resources

- What:
 - journals and data
- Why:
 - help students find information
 - give students experience with chemical literature
 - prepare students for doing research



Cost of Journal Subscriptions



- Journals are Expensive
- Library Subscription for JACS:
\$3418
- ACS alone publishes 34 Journals
- Average subscription rate ~\$1700

Free Journal Articles from ACS

- Select Hot Articles
 - pubs.acs.org/hotartcl/
- Sample Issues
 - First issue of the current year
- Articles on Request
 - Authors are allowed to distribute via their websites or email



Free Articles from Other Publishers

- Journal of Biological Chemistry
 - Free until printed, and at end of calendar year
 - www.jbc.org
 - Proceedings of the National Academy of Science
 - Free access to all articles 6 months after publication
 - www.pnas.org
 - Royal Society
 - Free access 12 months after publication
 - www.rsc.org
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Digital Object Identifier (doi)

- Unique identifier for digital information
 - Listed with citation of paper
 - e.g. doi:*10.1126/science.1122716*
 - Retrieving a paper using its DOI
 - Go to dx.doi.org
 - type the doi in the box to resolve
 - Type directly in browser location bar as:
 - dx.doi.org/10.1126/science.122716
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Searching for Articles



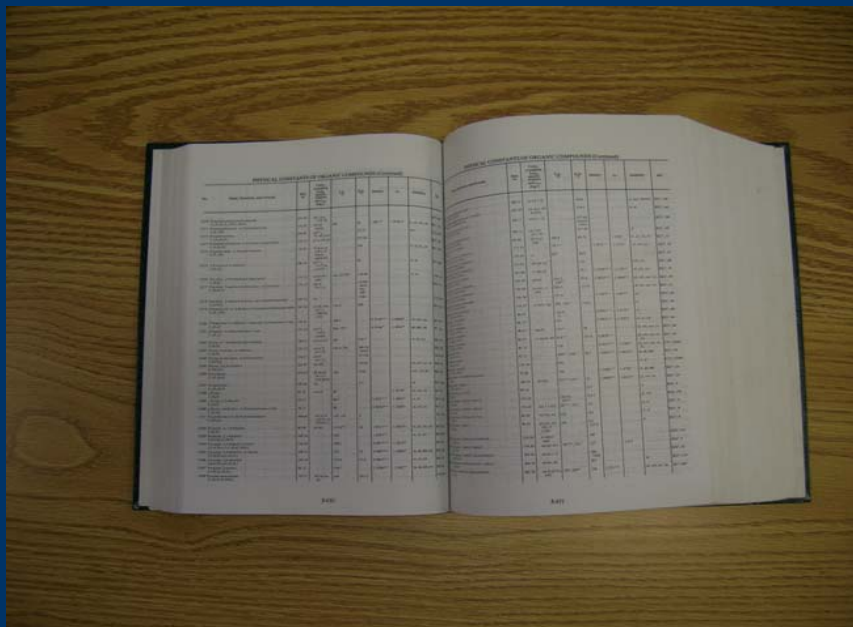
- Publisher websites will usually allow simple search options for their journals
 - Title, author,
maybe keywords
 - Browse tables of contents
 - Abstract usually free

Search Engines

- Scirus
 - Scientific info on web
- Google Scholar
 - Scholarly info on web
- ScienceDirect
 - For-fee service
 - Guests have limited free search options
- PubMed
 - Hosted by National Library of Medicine
 - Articles listed on PubMed Central free



Physical Data



- NIST Webbook
- Protein Data Bank
- Chemfinder
- Hazard.com
- Sigma-Aldrich

- Conclusion
- Thanks to Siena Heights University

