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Beyond the Chemistry Web

Bob Buchanan

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Beyond the Chemistry Web ...

Bob Buchanan, Physical Sciences Librarian, Auburn University

Feel free to send recommendations to me at buchara@auburn.edu. Thanks to Dana Roth for suggesting websites.

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- Based on the 1950s radio segment by Edward e R. Murrow, This I Believe is "a national media project engaging people in writing, sharing, and discussing the core values and beliefs that guide their daily lives." http://thisibelieve.org

GENERAL SCIENCE

Written by experts and vetted by an editor, the Encyclopedia of Earth offers over 2,000 articles about the earth in non-technical language. http://www.eoearth.org

Search across the science portals of twelve countries via WorldWideScience.org. Sponsored by the U.S. Department of Energy, this federated search engine is surprisingly fast. The search default is the Google "AND" but Boolean operators and truncation are also supported.

http://www.worldwidescience.org

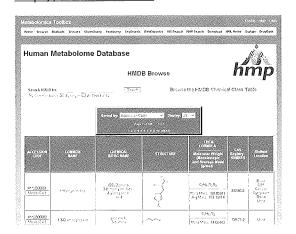
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The Human Metabolome Project provides ۵ extensive curated data for about 2,500 human metabolites – molecules smaller than 1,500 amu produced by metabolic reactions.

SciTech News



Records compile data from many sources, including experimental concentration, NMR and MS spectra, and point to related data in other online databases. http://www.hmdb.ca



- If you teach about patent information, recent 6 real-life examples can be found at Patent **Docs: Biotech & Pharma Patent Law** News Blog under the subcategories Novelty, Obviousness, and Utility. http://patentdocs.typepad.com/patent docs
- Scitalks: Smart people on cool topics is 0 a rapidly growing science video database. Combining an active collection of video links with visitor uploads, Scitalks makes science more accessible. Be careful; it is easy to lose track of time watching the fascinating science videos found here. http://scitalks.com



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 Sponsored by the NSF and the Public Library of Science, SciVee provides a venue for scientists to post publications along with a video presentation. The goal is to help make science articles more accessible to the scientific community and the general public.

http://www.scivee.tv



 Aimed at the biosciences, JoVE: Journal of Visualized Experiments aims to "increase reproducibility and transparency in biological sciences." Although there are only 114 articles, the quality is impressive.

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In contrast, and tending towards YouTube meets the biology lab, **LabAction.com** is a biology video-sharing website. http://www.jove.com

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CHEMISTRY

- The National Library of Medicine's ToxSeek searches the ToxNet databases and (optionally) other toxicological and environmental health databases from NLM, NIH, the U.S. government, and international sources. Relying on natural language, this fast federated search engine clusters results and sorts by relevance. http://toxseek.nlm.nih.gov
- Finding information in your print Gmelin collection became easier with the Gmelin-Complete-Catalog which is an online version of Springer's Complete Catalog of 1997/98. Thanks to Ben Wagner for providing this document as a searchable PDF. <u>http://ublib.buffalo.edu/libraries/asl/ guides/Gmelin-Complete-Catalog.pdf</u>
- Nan Butkovich has put together A Quick Guide to Citing Using the ACS Style Guide, 3rd Ed. that summarizes key points in just four pages. Students will appreciate its brevity.

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http://www.libraries.psu.edu/pams/ Quick%20Guide%20ACS.pdf

You can download the Generated Database of Chemical Universe of Small Molecules which contains 26.4 million compounds of known, and not-yet-known, molecules that consist of 11 atoms (or fewer) of C, N, O, or F. Structures must meet constraints of chemical stability and synthetic feasibility. http://dcbwww.unibe.ch/groups/reymond



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Journal of Bioactive and Compatible Polymers	0.925	105/140 in Biotechnology & Applied Microbiology 40/75 in Polymer Science
Journal of Biomaterials Applications	1.310	24/42 in Engineering, Biomedical 10/14 in Materials Science, Biomaterials
Journal of Cellular Plastics	0.569	53/75 in Polymer Science
Journal of Composite Materials	0.693	10/21 in Materials Science, Composites
Journal of Elastomers and Plastics	0.588	113/175 in Materials Science, Multidisciplinary 51/75 in Polymer Science
Journal of Intelligent Materials Systems and Structures	1.276	63/175 in Materials Science, Multidisciplinary
Journal of Plastic Film and Sheeting	0.711	15/16 in Materials Science, Coatings and Films
Journal of Sandwich Structures & Materials	0.261	81/106 in Engineering, Mechanical
Journal of Reinforced Plastics and Composites	0.427	13/21 in Materials Science, Composites 59/75 in Polymer Science
Journal of Thermoplastic Composite Materials	0.466	12/21 in Materials Science, Composites
Mathematics and Mechanics of Solids	0.552	119/175 in Materials Science, Multidisciplinary 49/65 in Mathematics, Interdisciplinary Applications 81/109 in Mechanics
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