

EDUCATION & SCIENCE: RESEARCH INFORMATION FOR FREE

When you attend a university as a member of staff, or as a student, you have access to a wide variety of online information e.g. databases and journals, that the university library has paid for. When you leave you may still wish to be able to follow new scientific academic research. This guide aims to show you some science based resources which are available for free on the internet. Although much of this information is free, not all of it is. You may be able to purchase articles of interest via your local Public Library. The charges vary by type of request and Local Authority.

LOCATING INFORMATION

Google Scholar

From: Google Scholar

<http://scholar.google.co.uk/>

Academic Information on most topics.

Google Scholar will find different types of information such as Reports and Grey Literature as well as journal articles.

Agricola

From: US National Agricultural Library

<http://agricola.nal.usda.gov/>

Botany/ Agriculture/ Forestry

1978-present

The National Agricultural Library (NAL) holds the world's largest accessible research library on agricultural and related topics.

Aids Information

From: US National Library of Medicine

<http://sis.nlm.nih.gov/>

1980-present

Literature on research, clinical aspects and health policy issues concerning AIDS and HIV related disease.

Alcohol and Alcohol Problems Science Database (ETOH)

From: National Institute on Alcohol Abuse and Alcoholism

<http://etoh.niaaa.nih.gov/>

Late 1960's-present

Citations and abstracts covering historic alcohol-related research information. The National Institute on Alcohol Abuse and Alcoholism (NIAAA) has created this portal to support researchers and practitioners searching for information related to alcohol research.

British Education Index

From: Leeds University, UKOLN & Joint Information Systems Committee (JISC)

http://www.leeds.ac.uk/bei/COLN/COLN_default.html

Indexing educational journals, internet information, education online and conferences.

1960 onwards

Cancerlit

From: US National Cancer Institute

<http://www.cancer.gov/cancerinfo/literature>

1963-present.

This site contains comprehensive descriptions of research programs; information on cancer topics, clinical trials, cancer statistics, research and funding. Scientists will find detailed information on specific areas of research interest and funding opportunities.

ERIC

From: US Department of Education but includes British and International Information

<http://www.eric.ed.gov/>

Information and materials on education related topics. ERIC has over 1 million records including journal articles, books, research, conference papers, policy documents and technical reports.

Energy Citations Database

From: US Department of Energy

<http://www.osti.gov/energycitations/>

Scientific and technical information, including bibliographies, on energy related topics in chemistry, physics and engineering. ECD includes scientific and technical research results in disciplines of interest to DOE such as chemistry, physics, materials, environmental science, geology, engineering, mathematics, climatology, oceanography, computer science and related disciplines. It includes bibliographic citations to report literature, conference papers, journal articles, books, dissertations, and patents.

Mineralogy Database

From: Webmineral

<http://webmineral.com/>

Mineral data for individual species are linked to mineral tables by crystallography, crystal structures, X-Ray powder diffraction, chemical composition, physical and optical properties, Dana's New classification, Strunz classification, mineral specimen images, and alphabetical listings of mineral species. There also are extensive links to other external sources of mineral data and information.

NASA Astrophysics Data System (ADS)

From: Harvard-Smithsonian Center for Astrophysics

<http://adswww.harvard.edu/>

7.3 million records on astronomy, astrophysics, physics and arXiv e-prints. Full-text search is available for much of the astronomical literature. Please note that all abstracts and articles in the ADS are copyrighted by the publisher, and their use is free for personal use only.

Pubmed

From: US National Library of Medicine and National Institute of Health

<http://www.ncbi.nlm.nih.gov/pubmed/>

This database is a key resource in Medical Science, Medical and Health Physics and life sciences in general. It provides access to some electronic only journals.

1966 onwards.

Toxnet and Toxline

From: US National Library of Medicine

<http://toxnet.nlm.nih.gov/index.html>

Databases of bibliographies and full-text article relating to toxicological, pharmacological, biochemical and physiological effects drugs and other chemicals.

OPEN ACCESS JOURNALS

These journals give free access to scientific scholarly articles. Many of these journals have been peer-reviewed and editorially controlled, and are simply available without needing a subscription to access the articles.

DOAJ

From: Directory of Open Access Journals

<http://www.doaj.org/>

Over 221488 articles are included in the DOAJ service. DOAJ aims to cover all languages and all subjects.

PLoS

From: Public Library of Science

<http://www.plos.org/>

It includes original research and feature articles on current news items as well as scientific and medical peer-reviewed literature.

OPEN ARCHIVES AND REPOSITORIES

Open archives and repositories are online databases of digital resources such as research data and eprints. Eprints are often the early author versions of articles to be published in journals and at conferences, etc. Also included in archives and repositories are images, audio files and other data generally hidden on the deep-web.

OAIster

From: Open Archive Initiative

<http://www.oaister.org/about.html>

OAIster is a searchable catalogue of digital resources, including 'born-digital' texts, digitized books and articles (scanned material), audio-files, films, images and datasets; this material that has been "harvested" from repositories.

ArXiv

From: Cornell University Library

<http://arxiv.org/>

Research papers in physics, mathematics, sciences, neuroscience and computational linguistics. Information is retrieved via email or webmail enquiry.

FREE PATENT DATABASES

These databases provide access to free Patent information that shows inventions that have already been protected; information on how to use other peoples' patented inventions, or information on how to protect your own invention.

Espacenet

From: European Patent Office

http://ep.espacenet.com/?locale=en_EP

Keyword searching by classification, inventor's name or publication number for patent applications lodged in the last 24 months; access to older patents.

USPTO

From: US Patent and Trademark Office

<http://www.uspto.gov/>

Free electronic copies of patents and patent applications.

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