

Physical Sciences Library Research Databases

Name	Sources	Scope	Why Use?
Beilstein Crossfire Downloading software required Beilstein Handbook of Organic Chemistry Gmelin Handbook of Inorganic Chemistry	Beilstein Handbook, Gmelin Handbook, primary literature	Updated quarterly Covers 1779 – present 9.4 million structures 11 million reactions 33 million facts	search and display chemical information by substances (structures and properties), reactions, or bibliographic citations
BIOSIS Biological Abstracts and Biological Abstracts/RRM [Reports, Reviews, Meetings]	journal articles, reports, review articles and conference papers	Updated weekly Covers 1969— present 13 million records	biology, microbiology, botany, biomedicine, biochemistry, pharmacology, toxicology, public health, neoplasms and neoplastic agents, immunology, immunochemistry, instrumentation, genetics, cytogenetics, veterinary science, soil science, bacteriology, biophysics, entomology, herpetology, ichthyology, mammalogy, ornithology, protozoology, and zoology
Ei Compendex Web Engineering Index	2,600 engineering journals, conferences, and reports.	Update – unknown Covers 1970 – present	Abstracts in all areas of engineering.
INSPEC Physics Abstracts A	scientific and technical journals and conference proceedings	Updated weekly Covers 1969 – present 6.8 million records	physics, electrical engineering and electronics, computing and control, and information technology
MathSciNet Mathematical Reviews and Current Mathematical Publications	reviews and citations to the world's research literature	Updated daily Covers 1940 – present 1.6 million records	mathematics, statistics, and related areas
NASA Astrophysics Data System four sets of abstracts: 1) astronomy and astrophysics, abstracts; 2) instrumentation,; 3) physics and geophysics, 4) Los Alamos preprint server	links to scanned images of journal articles from major astronomical journals, access or pointers to astronomical data catalogs, data archives from NASA, LANL preprints	Update – Unknown Covers ? – present 2.2 million records	four sets of abstracts: astronomy and astrophysics; instrumentation; physics and geophysics; and the Los Alamos preprint server.

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NTIS National Technical Information Service	technical reports, software packages, and data files	Update – Unknown Covers 1983 – present	bibliographic citations and summaries in chemical engineering, computer science, energy, engineering, environment, geology, information science, marine, nuclear science, pollution, science and technology.
SciFinder Scholar Downloading software required Chemical Abstracts	8,000 journals, 2.5 million patents, book chapters, conference proceedings, technical reports, dissertations, book reviews and clinical trials	Updated daily Covers 1947 – present 16 million records 30 million substances 3.8 million reactions	citations and substance profiles in areas of chemistry, biotechnology, agricultural chemistry, toxicology, environmental science, medicine, and food science
Technical report server NASA Technical reports And NACA reports	unclassified documents announced in Scientific and technical aerospace reports and The National Advisory Committee for Aeronautics, and the NASA open literature file	Updated quarterly Covers 1916 – present 2.2 million records	abstracts to literature in the fields of aeronautics, space science, chemistry, engineering, geosciences, life sciences, mathematics, computer sciences, and physics.
Web of Science Science Citation Index	5,700 journals in 25 scientific disciplines	Updated weekly Covers 1945 – present	citation network between scientific research publications with reference and citation lists for each article covered