

Scientific Literature

A. Primary Sources

I. Periodicals

1) Reports of Research and Discussions Thereof

Lists of Periodicals:

British Union List of Periodicals
Guide to Scientific Periodicals
World List of Scientific Periodicals
CSU Union List of Periodicals
CASSI - CAS Source Index

a) General Science Journals - Cut across major disciplines

Naturwissenschaften, 1913
Nature, 1869
Discovery, 1920
Endeavor, 1942
New Scientist, 1956
Proceedings of the National Academy of Sciences, USA, 1915
Science, 1883

b) Non-Chemical Science Journals - Biology, Physics, Microbiology, etc.

Plant Physiology
Journal of Molecular Biology

c) General Chemical Journals

Annalen Der Chemie
Journal of the Chemical Society (London) - 1841
Chemische Berichte, 1868
Journal of the American Chemical Society - 1879
Helvetica Chimica Acta, 1918
Canadian Journal of Chemistry - 1923
Pure and Applied Chemistry - 1960
Angewante Chemie - 1936 (Eng. Ed. - 1962)

d) Specialized Journals

Analytical Chemistry, 1947
Biochemistry, 1962
Journal of Biological Chemistry - 1905
Journal of Carbohydrate Chemistry
Inorganic Chemistry - 1962
Journal of Organic Chemistry - 1936
Synthesis
Theoretica Chimica Acta, 1963
Tetrahedron, 1957

e) Cross-Specialized Journals

Journal of Inorganic Biochemistry
Journal of Chemical Physics 1933
Biochemical and Biophysical Research Communications
Biochimica et Biophysica Acta, 1947
Journal of Organometallic Chemistry - 1963
Journal of Biochemical Pharmacology

f) Notes and Communications

Journal of the Chemical Society, Chemical Communications
Tetrahedron Letters
FEBS Letters
Organic Letters - 1999

g) Chemical Education

Journal of Chemical Education
Journal of College Science Teaching
Education in Chemistry

- 2) Chemical News - advertisements, market reports, trade announcements, short reviews (secondary material), general news, personal notes, etc.

Chemical and Engineering News
Chemistry in Britain

- 3) Combination Publications - combine editorials, book reviews, ads, reviews, commercial developments, as well as primary research articles, i.e., *Science*.

- 4) Collected Papers of Meetings - Conference Reports, ACS Symposium Series - These are not reviewed or significantly edited.

- 5) Abstracts of Papers Delivered at Meetings - Photocopied directly from author's submission.

II. Technical Reports

Federal Government Agencies - Departments, Commissions, Grantee Reports

Non- Governmental Agencies - Carnegie Foundation, United Nations ,etc.

Foreign Governments

State Governments

III. Patents

IV. Dissertations - University Microfilms

V. Manufacturers Technical Bulletins

Organic Peroxides, FMC Corporation

B. Secondary Sources

I. Indexing Journals - author name, title, citation only

Science Citation Index

Index Medicus

Current Chemical Reactions

Current Contents

Chemical Titles - 1st computer generated periodical (1961)

Research Alert

II. Reviewing Serials

Advances in Photochemistry, Vol. 11

Annual Reports of the Chemical Society - 1904

Annual Review of Biochemistry

Progress in

Perspectives in Biochemistry

JBC Minireview Compendium

Organic Photochemistry, Vol. 5, Ed. A. Padwa

III. Reviewing Journals

Chemical Reviews - 1924
Accounts of Chemical Research, 1968
Chemical Society Reviews - 1947
Scientific American - 1945
American Scientist - 1913 (Society of Sigma Xi)
Annual Reports
TIBS
Aldrichimica Acta

IV. Index to Reviews

Index of Reviews in Organic Chemistry - Published by The Chemical Society (London), Vol I 1960-1971; Vol. II 1972-1976
FEBS Letters Index of Biochemical Reviews, 1971-
Index to Scientific Reviews, about 20,000 reviews each year
Recent Reviews, *J. Org. Chem.*, appeared about twice per year from 1978-1985; published again 4 times per year beginning in 1990.
Chemical Abstracts Reviews Index (CARI), 1975.

V. Abstracting Journals

Dissertation Abstracts
Analytical Abstracts
Biological Abstracts
Physics Abstracts
Chemisches Zentralblatt, 1830-1969
British Abstracts, 1871-1953
Chemical Abstracts, 1907-
CA Selects

VI. Reference Works

1) Tabular Compilations

a) Handbooks

Handbook of Chemistry and Physics
Lange Handbook of Chemistry
Merck Index

b) Comprehensive works

Chemists Companion
Data for Biochemical Research
The Aldrich Library of NMR Spectra
Reagents for Organic Synthesis, Fieser and Fieser

c) Catalogs

The Aldrich Catalog

2) Dictionaries

Condensed Chemical Dictionary, 10th Ed., 1981, Van Nostrand Reinhold

3) Encyclopedias

Van Nostrand's Scientific Encyclopedia, 6th Ed., 1983

4) Formularies

5) Treatises

Beilstein - Organic Chemistry, 5th Supplement in English

Organic Reactions

Organic Synthesis

Gmelin - Inorganic, Also now published in English

6) Monographs

Cytochrome P-450, Ed. P. R. Ortiz de Mantellano

Molybdenum Enzymes, Ed. T. G. Spiro,

Non Classical Ion Problem, H. C. Brown

7) Textbooks

Organic Chemistry, 6th Ed., S. H. Pine

Advanced Organic Chemistry, 3rd Ed., J. March