

HOW TO USE SCIENCE CITATION INDEX

The Science Citation Index covers literature of physical and chemical sciences; biological, environmental and agricultural sciences; medical and life sciences; engineering and technology, and the behavioral and social sciences. Its coverage is interdisciplinary and international in scope. The index has three major parts: the Source Index, the Citation Index, and the Permuterm Subject Index. Each part will help answer specific questions. Sample questions and recommended search strategies are given below with examples.

SITUATION: You know an author and want a complete list of his/her works.

SEARCH STRATEGY: Use the Source Index. This index is arranged alphabetically by author and will give the complete title of all articles, reports, etc. written by the author during the time period covered by the index and the name, volume, pages and dates of the journal(s) in which these article(s) appeared. The Source Index is the author index and contains the most complete information. See example below:

LAVRENKO VA

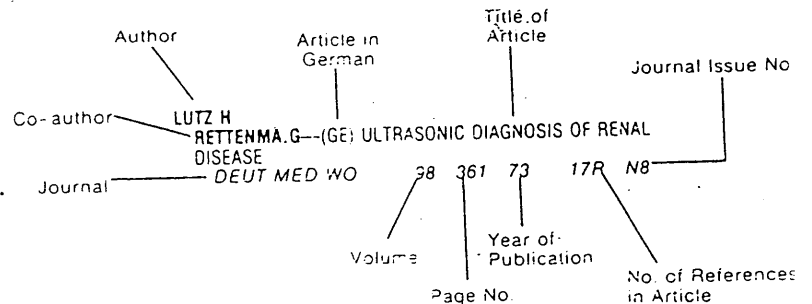
MELNIK VM YAGUPOLS.LN FRANTSEV.IN—(RS) STUDY (BY MEANS OF CYCLOTRON-RESONANCE) OF HYDROGEN-ION DISCHARGE ON METALS AND ROLE OF THIS STAGE IN PROCESS OF HYDROGEN ELECTROLYTIC ISOLATION
 DAN SSSR 213 126 73 14R N1

GLEBOV LA LUGOVSKA.YS FRANTSEV.IN—INVESTIGATION OF HIGH-TEMPERATURE OXIDATION OF LANTHANUM HEXABORIDE IN OXYGEN AND EFFECT OF INTERNAL OXIDATION ON PROTECTIVE PROPERTIES OF SCALE
 OXID METAL 7 131 73 7R N2

GLEBOV LA LUGOVSKA.ES—(RS) HIGH-TEMPERATURE OXIDATION OF ZIRCONIUM BORIDE IN OXYGEN
 ZH FIZ KHIM 47 887 73 6R N4

MOROZOV VV PROTSENK.TG KALENICH.AM TUKUSH VL—(RS) REACTION OF A HYDROGEN-ATOM ON SURFACE OF TITANIUM AND ZIRCONIUM HYDROCARBIDES
 ZH PRIK KH 45 2318 72 8R N10

TYPICAL ENTRY IN SCI SOURCE INDEX



SITUATION: You know the name of an organization doing research in an area that you want to investigate. You need to learn what works are being published by authors from that organization.

SEARCH STRATEGY: Use the Corporate Index which is part of the Source Index. The Corporate Index will give you the names of authors from that organization. See example below. Then look under those authors' names in the main body of the Source Index to get the list of their writings.

| | | VOL | PG | YR |
|--|-------------|-----|------|----|
| MAX PLANCK INST BIOL,TUBINGEN,WEST GERMANY | | | | |
| BISSWANG.H | BIOC BIOP A | 321 | 143 | 73 |
| BRAUN V | J BACT | 114 | 1264 | 73 |
| ENGELRAE M | BIOC BIOP R | 53 | 812 | 73 |
| HENNING U | FOL MICROB | 18 | 268 | 73 |
| | P NAS US | 70 | 2033 | 73 |
| SORSA V | NATURE-BIOE | 245 | 34 | 73 |
| TICHY H | GENETICS | 74 | S276 | 73 |
| ZARYBNIC V | VIROLOGY | 54 | 318 | 73 |

SITUATION: You know an author and want to know when his/her work was published and whether it was subsequently cited (used as a reference) by other authors.

SEARCH STRATEGY: Use the Citation Index. This index is arranged alphabetically by the author cited as a reference by other authors listed in the Source Index. The author arrangement is subdivided chronologically by the year the article was cited. See example below:

TYPICAL ENTRY IN SCI CITATION INDEX

| | BROADUS AE | | VOL | PG | YR |
|--|-------------------------|------|------|----|----|
| Previously published articles by Broadus that were cited during period covered by index | 69 CLIN RES | 17 | 65 | | |
| | FRANKLIN TJ NATURE-BIOL | 246 | 119 | 73 | |
| | MARCEL YL UN MED CAN | 102 | 376 | 73 | |
| New articles published during period covered by index that cited one of the Broadus articles | 70 J CLIN INVEST | 49 | 2222 | | |
| | AUGUST GP J CLIN END | 37 | 476 | 73 | |
| | GERBITZ KD Z KLIN CHEM | 11 | 224 | 73 | |
| | HAMET P J CLIN END | 36 | 218 | 73 | |
| | HEMINGTO JG BIOC BIOP A | 304 | 552 | 73 | |
| | HO IK J PHARM EXP | 185 | 336 | 73 | |
| | | 185 | 347 | 73 | |
| | KUCHEL O UN MED CAN | 102 | 2458 | 73 | |
| | LATNER AL CLIN CHIM A | 48 | 353 | 73 | |
| | MULLEROE B F NEUR PSYC | 41 | 509 | 73 | |
| | PEYTREMA A ENDOCRINOL | 92 | 525 | 73 | |
| | | 92 | 1502 | 73 | |
| | RAIJ K SC J CL INV | 32 | 196 | 73 | |
| | SAGEL J J CLIN END | 37 | 570 | 73 | |
| | STEINER AL METABOLISM | 22 | 1139 | 73 | |
| TURINSKY J P SOC EXP M | 142 | 1189 | 73 | | |
| WOO YT ARCH BIOCH | 154 | 510 | 73 | | |

Source index entry for one of the new articles that cite Broadus

| | | | | | | |
|------------|---|----|------|----|-----|----|
| STEINER AL | APPLICATION OF COMPETITIVE LIGAND-BINDING RADIOASSAYS TO NUCLEOTIDES METABOLISM | 22 | 1139 | 73 | 39R | N8 |
|------------|---|----|------|----|-----|----|

SITUATION: You have a subject and want references on the entire subject or on certain aspects of it.

SEARCH STRATEGY: Use the Permuterm Subject Index. Look up the term or combination of terms you have in mind. You will find the names of authors who have used those terms in the titles of their articles. Then look up those authors' names in the Source Index to get the full bibliographic description. See example below:

TYPICAL LISTING IN SCI PERMUTERM SUBJECT INDEX

ALPHA-FETOPROTEIN

- IMMUNOLOGI. — SIZARET P
- IMMUNORADI. — ELGORT DA
- INDUCED — SONTAG JM
- INFANTS — YEUNG CY
- INFECTED — AKHMETEL MA
- ISOLATION — ISAKA H
- LEVELS — SONTAG JM
- YEUNG CY
- LIVE — MCINTIRE KR
- LIVER — ADAMSON RH
- BIERFELD JL
- ENGELHAR NV
- LOCALIZATI. — WANG JJ
- MALIGNANT — ISHIGURO T
- MATERNAL — BIERFELD JL
- METASTATIC — AKHMETEL MA
- MICE — MCINTIRE KR
- MONKEYS — MIZEJEWS GJ
- MOUSE — ENGELHAR NV
- MURINE — NEVIN NC
- MYELOCELE

During the period indexed, all these authors used the word "Alpha-Fetoprotein" in the title of their article in addition to the word shown opposite their names

Source index listings for articles containing "Alpha-Fetoprotein" and Liver in their titles

| | | | | | |
|--|-------------|----------|-----------|------------|----------|
| ADAMSON RH | CORREA P | SMITH CF | YANCEY ST | DALGARD DW | |
| INDUCTION OF TUMORS IN MONKEYS BY CHEMICAL CARCINOGENS—CORRELATION OF SERUM ALPHA-FETOPROTEIN AND APPEARANCE OF LIVER TUMORS | | | | | |
| | P AM ASS CA | 14 | 42 | 73 | NO R MAR |

| | | | | | |
|---|--------------|------------|----------|-----------|-------|
| BIERFELD JL | SCHNEIDER MI | SCHULTZ DR | MORAL MD | ROGERS AI | |
| ALPHA-FETOPROTEIN AND CARCINOEMBRYONIC ANTIGEN IN A CASE OF GASTRIC CARCINOMA METASTATIC TO LIVER | | | | | |
| | AM J DIG DI | 18 | 517 | 73 | 9R N8 |

If you would like personal help in using these indexes, please inquire at the Reference Desk. If you have need of more detailed information but want to use these indexes independently, please refer to the descriptions in the first pages of each volume.