Science Reference Center

Welcome to the Science Reference Center Database Information Screen! Browse the topics listed below to find what you are looking for:

- [About the Database]
- [Searching Tips]
- [Searchable Fields]
- [Definition of Fields]
- [Publications Authority File]
- [Subjects Authority File]
- [Science Video Collection]
- [Index Browse]
- [Copyright and Restrictions of Use]
- [Where to Send Your Comments]

About the Database

Science Reference Center

Science Reference Center is a comprehensive research database that provides easy access to a multitude of full text science-oriented content. Designed to meet every student's science research needs, *Science Reference Center* contains full text for hundreds of science encyclopedias, reference books, periodicals, and other sources. Topics covered include: biology, chemistry, earth & space science, environmental science, health & medicine, history of science, life science, physics, science & society, science as inquiry, scientists, technology and wildlife. *Science Reference Center* also satisfies the demand for standards-based content by providing teachers and librarians with articles correlated to state and national curriculum standards.

Science Reference Center contains:

• 181 Full-Text Science Periodicals
• 625 Full-Text Science Reference Books
• 23 Full-Text Encyclopedias
• 812 Full-Text Science Essays
• 3,790 Full-Text, Full-Length Biographies of Scientists
• 61 Science Animations
• 10,000+ Science Images
• 519 Science Videos

[back to top]

Searching Tips

There are a number of helpful tips and hints you can use to improve your search results. For example, you can use Boolean operators to link search terms together; and/or limit the search to a specific title.

Boolean Operators

Sometimes a search can be overly general (results equal too many hits) or overly specific (results equal too few hits). To fine tune your search, you can use AND, OR, and NOT operators to link your search words together. These operators will help you narrow or broaden your search to better express the terms you are looking for and to retrieve the exact information you need quickly.

USING THE "AND" OPERATOR: If you have a search term that is too general, you can append several terms together using "AND". By stringing key terms together, you can further define your search and reduce the number of results. Note: Unless you define a specific search field, the result list will contain references where all your search terms are located in either the citation, full display or full text.

- For example, type **sleep AND walking** to find results that refer to both sleep and walking.

USING THE "OR" OPERATOR: In order to broaden a search, you can link terms together by using the "OR" operator. By using "OR" to link your terms together you can find documents on many topics. Linked by this operator, your words are searched simultaneously and independently of each other.

- As an example, search **sleep AND walking OR waking** to find results that reference the terms "sleep" and "walking", or the term "waking".

USING THE "NOT" OPERATOR: In order to narrow a search, you can link words together by using the "NOT" operator. This operator will help you to filter out specific topics you do not wish included as part of your search.

- Type: **sleep OR walking NOT waking** to find results that contain the terms "sleep" or "walking" but not the term "waking".
- To further define your results, type: **sleep AND walking AND waking** to constrict the search to include all terms linked by the "AND" operator.

Grouping Terms Together Using Parentheses

Parentheses also may be used to control a search query. Without parentheses, a search is executed from left to right. Words that you enclose in parentheses are searched first. Why is this important? Parentheses allow you to control and define the way the search will be executed. The left phrase in parentheses is searched first; then based upon those results the second phrase in parentheses is searched.

Generalized Search: `dog or cat and show or parade`

Focused Search: `(dog or cat) and (show or parade)`

In the first example, the search will retrieve everything on dog or cat shows AS WELL AS everything on parades whether or not the articles refer to dogs or cats.

In the second example, we have used the parentheses to control our query to only find articles about shows or parades that reference dogs or cats.

[back to top]

Searchable Fields

The default fields for unqualified searches consist of the following: all authors, all subjects, all keywords, all title info (including source title) and all abstracts.

The following list will help you locate detailed information referenced in this database as a field.

Searchable Tag	Description	Example
AB	Abstract or Author Supplied Abstract [Word Indexed] Performs a keyword search of the abstract summaries.	AB Science
AN	Accession Number [Phrase Indexed] Performs an exact search for an article's identification (accession) number.	AN 11005129
AR	Author Phrase [Phrase Indexed] Performs an exact search for an article's author, in the format of last name, first name, and middle initial if available.	AR Royston, Donna

AS	Author-Supplied Abstract [Word Indexed] Performs a search for keywords contained within the an author supplied abstract.	AS Biological Sciences
AU	Author [Word Indexed] Performs a keyword search for an article's author, in the format of last name, first name, and middle initial if available.	AU Smith
CS	Cover Story [Word Indexed] Performs an exact search for the value "Y" indicating that the article is a cover story.	CS Y
DE	Heading or Keyword [Phrase Indexed] Performs an exact search for subject headings and author-supplied keywords describing an article.	DE Mechanics
DT	Date of Publication [Date Indexed] Performs an exact search for articles published on a specific date, in the format of CCYYMMDD.	DT 20050301
ED	Entry Date [Date Indexed] Performs an exact search for articles entered on a specific date, in the format of CCYYMMDD.	ED 20030616
FM	Images Available [Phrase Indexed] Performs an exact search for an article's type of full text. The searchable values are "T," "C," or "P." "T" indicates HTML full text; "C" indicates images embedded in the full text; and "P" indicates a PDF document.	FM P
FT	Full Text Available [Phrase Indexed] Performs an exact search for the value "Y"	FT Y

	indicating that a record has full text available.	
GE	Geographic Terms [Word Indexed] Performs a keyword search of geographic locations pertaining to an article's content.	GE France
IB	ISBN [Phrase Indexed] Performs an exact search for a publication's International Standard Book Number.	IB 007046507X
IL	Illustrations [Word Indexed] Performs a keyword search for articles containing illustrations. Values to be searched include "Y" indicating the article contains illustrations, and types of illustrations such as graphs, charts, diagrams, etc.	IL Y
IP	Issue [Phrase Indexed] Performs an exact search for a publication's issue number.	IP 3
IS	ISSN [Phrase Indexed] Performs an exact search for a publication's International Standard Serial Number.	IS 0002161X
JN	Journal Name [Phrase Indexed] Performs am exact search for the journal title in which an article was published.	JN Agricultural Research
LA	Language [Word Indexed] Performs a keyword search for the language in which an article was originally published.	LA English
	Lexile Rank [Number Indexed]	

LX	Performs an exact numeric search for a record's lexile rank. For more information on lexile rank, click on lexile number within the record.	LX 1300
LY	Lexile Rank Edit Range [Number Indexed] Performs a numeric search for records within a range of lexile ranking.	LY 1100-1300
MH	Benchmarks [Word Indexed] Performs a search for documents that have been indexed with a Science-oriented curriculum benchmark. The science benchmarks are available as a limiter on the Basic and Advanced Screen.	MH "Earth & Space Sciences -- Astronomy -- Solar System"
PG	Number of Pages [Number Indexed] Performs an exact numeric search for an article's page length.	PG 19
PT	Publication Type [Phrase Indexed] Performs an exact search for the publication type.	PT Periodical
PZ	Document Type [Phrase Indexed] Performs an exact search for the document type.	PZ Article
RV	Peer Review [Word Indexed] Performs a search for the value "Y" indicating that the article is from a peer-reviewed publication.	RV Y
SO	Journal Nam [Word Indexed] Performs a keyword search for the journal title in which an article was published.	SO Texas
SP	Start Page [Phrase Indexed] Performs an exact search for an article's start page.	SP 61

SU	Subject Terms [Word Indexed] Performs a keyword search for geographic subject terms, keywords in articles, and generic subject terms describing a document's contents.	SU Culture
TX	All Text [Word Indexed] Performs a keyword search of all the database's searchable fields. Using the TX field code will cause the search to look for the keyword in the full text as well as the citation record.	TX Rio Grande
TI	Title [Word Indexed] Performs a keyword search for the title of an article, or a descriptive phrase if the article is dated before Nov 87.	TI Science
UI	Unique Identifier [Phrase Indexed] Performs an exact search for an article's identification (accession) number.	UI 11189286
VI	Volume [Phrase Indexed] Performs an exact search for a publication's volume number.	VI 24

[back to top]

Definition of Fields

The following table explains the contents of each field in a Science Reference Center record's detailed display.

Field Name	Description
Title	Title of the article.
Alternate Title	Alternate title of the article.

Language	Language in which the article was published.
Author	Author(s) name in last name, first name format.
Source	The source in which the article was published, its volume number, the number of pages in the article, and a description and number of illustrations found in this article.
Document Type	Indicates a record's document type, such as article, book, abstract, company report, industry overview, and more. All Document Types are displayed in the listbutton limiter on the Advanced Search screen.
Subject Terms	This specific article's subject headings describing the item's content.
Geographic Terms	The specific article's geographic subject headings describing the record's content.
Abstract	A brief summary taken from the article itself.
Country of Publication	The country in which an article was originally published.
Committee Name	The government department or committee referenced in the document.
Region/Area	The region or area referenced in the document.
Guest	Guests referenced in the article.
Lexile	Limits results based on targeted reading levels using the Lexile Framework.
Full Text Word Count	The word count of the article's full text.
ISBN	International Standard Book Number.
ISSN	International Standard Serial Number.
DOI	Digital Object Identifier.
Accession Number	Unique number to identify the record.

[back to top]

Publications Authority File

The Publication authority file is a list of the publications from the *Science Reference Center* database. The Publication authority file is drawn from the publications listed in each record; therefore, all terms will provide links to pertinent records. You can browse this list alphabetically, or as Relevancy Ranked (keyword search).

[back to top]

Subjects Authority File

The Subjects authority file is a controlled vocabulary of terms that assists in more effectively searching the database. The Subjects authority file is drawn from the subjects assigned to each record; therefore, all terms will provide links to pertinent records. You can browse this list alphabetically, or as Relevancy Ranked (keyword search).

[back to top]

Science Video Collection

The *Science Video Collection* contains over 500 original videotape recordings secured from ScienCentral, Inc. and from RM Plc. over 50 animations have been secured. The videotape recordings are documentary clips centering on scientific research and topics. The content includes primary source material recorded in recent years related to scientific achievements and progress. The entire collection contains approximately 10 hours of video, with each clip ranging from 1-2 minutes in length. All the videos contain audio and the majority are in color. In regards to the animations they likewise deal with scientific topics. All content has been indexed.

Formats and System Requirements

Video Recordings:

- Windows Media Video (wmv.) format
- Supported in Windows Media Viewer and Flash formats.

Animations:

- Supported in Flash format and Quicktime.

Searchable Fields

You may also narrow your search to specific fields. The following list will help you locate detailed information referenced in this database as a field. The default fields for unqualified searches consist of the following: Video Title, Abstract and Subject Headings.

Searchable Tag	Description	Example
AB	Abstract [Word Indexed] Performs a keyword search of the abstract summaries.	AB UV light

AN	Accession Number [Phrase Indexed] Performs an exact search for a record's identification (accession) number.	AN PUR1196
BM	Benchmark [Word Indexed] Performs a keyword search of the records for the established point of reference against which computers or programs can be measured.	BM Neuroscience
DE	Subject [Phrase Indexed] Performs an exact search for keywords describing the record.	DE Cancer
DT	Publication Date [Date Indexed] Performs an exact search for articles published on a specific date, in the format of CCYYMMDD.	DT 20021105
FM	Full Text Indicator [Phrase Indexed] Performs an exact search for the type of full text format available. In this database there two formats: type "M" for animations and type "V" for video.	FM M FM V
IT	Flag Interactive [Phrase Indexed] Performs an exact search for the value "Y" indicating that a record has interactive video available.	IT Y
KW	Keyword [Word Indexed] Performs a keyword search for descriptors describing the record.	KW biology
	Keyword	

KY	[Phrase Indexed] Performs an exact search for descriptors describing the record.	KY earth science
MH	Benchmark [Word Indexed] Performs a search for documents that have been indexed with a Science-oriented curriculum benchmark.	MH Neuroscience
PB	Publisher [Word Indexed] Performs a keyword search of the record's Publisher.	PB ScienCentral, Inc. PB RM plc.
PZ	Record Type [Phrase Indexed] Performs an exact search of the record's record type.	PZ Video PZ Animation
SU	Subject Heading [Word Indexed] Performs a keyword search of a record's generic subject headings.	SU Cancer
TI	Video Title [Word Indexed] Performs a keyword search of the record's title information.	TI genes
TS	Benchmark [Phrase Indexed] Performs an exact search of the records for the established point of reference against which computers or programs can be measured.	TS "Physical Sciences -- Technology -- Health Care"
	All Text [Word Indexed]	

TX	Performs a keyword search of all the database's searchable fields. Using the TX field code will cause the search to look for the keyword in the full text as well as the citation record.	TX e-coli
VD	Flag Video [Phrase Indexed] Performs an exact search for the value "Y" indicating that a record has video available.	VD Y
YR	Year [Date Indexed] Performs an exact search for record's published on a specific date, in the format of CCYYD.	YR 2002

[back to top]

Index Browse

Index browsing allows the user to view all values that occur in specified fields in a database, along with corresponding hit counts. Access the index browse feature by clicking the green "Indexes" button on the upper portion of the "Advanced" search screen. Use the drop-down menu to choose an index to browse. Indexes can also be searched using tags. Since browsable indexes are phrase indexed, the exact form and spelling of terms as they appear in the database must be used in conjunction with the tags when entering a search manually. Indexes available for browsing in the *Science Reference Center* database are listed below. Tags for all fields included in the index browse feature begin with "Z" (e.g. "ZA" for Author).

Author	ZA
Document Type	ZT
Entry Date	ZD
Geographic Terms	ZG
ISBN	ZH
ISSN	ZI
Journal Name	ZJ
Language	ZL
Subject Terms	ZE
Year of Publication	ZR

[back to top]

Copyright and Restrictions of Use

The *Science Reference Center* database is made up of indexing, abstracts, and full text. The copyright of the abstracts and indexing is owned by EBSCO Publishing. This database is intended solely for the use of the individual patron of the licensing party.

Copyright of the full text is the property of the publisher of the original publication. Text may not be copied without express written permission except for the print or download capabilities of the retrieval software used to access it. This text is intended solely for the use of the individual user.

[back to top]

Where to Send Your Comments

If you have some comments about either the database or the software, we would appreciate hearing from you! Please mail your comments to:

EBSCO Publishing
P O Box 682
Ipswich, MA 01938
Tel: 800-653-2726
Tel: 978-356-6500
Fax: 978-356-6565

Please Submit any questions you have to: http://case.support.epnet.com.

[Return to Top]

« Back