Web of Science - Scopus

Searching the databases

Main research indicators

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DESIGNING THE SEARCH STRATEGY

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MAIN RESEARCH QUALITY INDICATORS

genially

Designing the search strategy

a) Keywords

b) Boolean operators

c) Exact phrase

d) Truncation

e) Filters or limits

b) Keywords

Concepts that **better express** what you are looking for

Keep in mind:

✓ Abbreviations and acronyms
✓ Synonyms
✓ Related concepts

```
                                          →  LEDs

         ┌──────────────────────┐
         │                      │    →  Light emitting diodes
         │         LED          │ ⟨
         │                      │
         └──────────────────────┘    →  Light emitting diode


                                          →  Optical fibers

         ┌──────────────────────┐
         │                      │    →  Optical fibre
         │    Optical fiber     │ ⟨
         │                      │
         └──────────────────────┘    →  Optical fibres
```

In order to look for synonyms and variations of the keywords, you have to search in general and specialized dictionaries, but also there is a very useful tool:
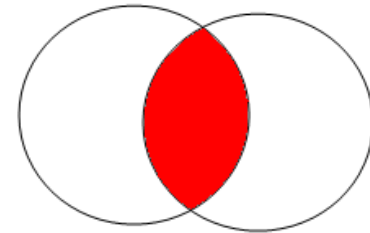
Library of Congress Subject Headings - http://id.loc.gov/authorities/subjects.html

a) Boolean operators

AND

It retrieves results where **ALL** search terms are present in the same record
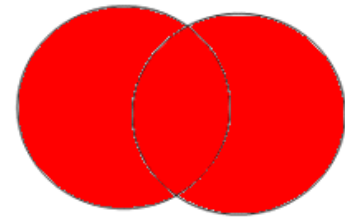
LED AND Optical fiber

OR

It retrieves results that includes **AT LEAST ONE** of the search terms in the resulting records
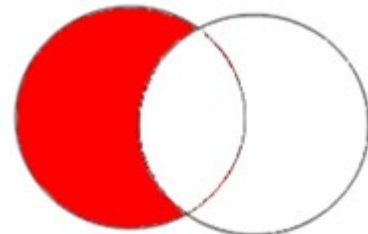
LEDs OR Light emitting diodes

NOT

It **EXCLUDES** the retrieval of terms from your search

Electroluminescent devices NOT LEDs

c) Exact phrase

" " (quotations)

It retrieves only records with the **SAME WORDS IN THE SAME ORDER**

"Optical fiber"

Scopus   Search
"optical fiber"

Structure design and application of hollow core microstructured optical fiber gas sensor: A review	Li, J., Yan, H., Dang, H., Meng, F.	2021	Optics and Laser Technology 135,106658	0

View abstract ∨   Consulta'l   View at Publisher   Related documents

Scopus   Search
optical fiber

Long period grating in double cladding fiber coated with graphene oxide as high-performance optical platform for biosensing	Esposito, F., Sansone, L., Srivastava, A., (...), Giannetti, A., Iadicicco, A.	2021	Biosensors and Bioelectronics 172,112747	0

View abstract ∨   Consulta'l   View at Publisher   Related documents

d) Truncation

*

It is used to search for all terms that begin with a word: truncation broadens your search to include different word endings (singular and plural... all kind of suffixes).

The most common symbol used in truncations is the asterisk

Transm*

Transmission
Transmissions
Transmit
Transmitting
Transmitted

.

.

.

Transmembrane

e) Filters or limits

All databases include tools to refine and filter the search results (by year, subject area, document type, etc.)
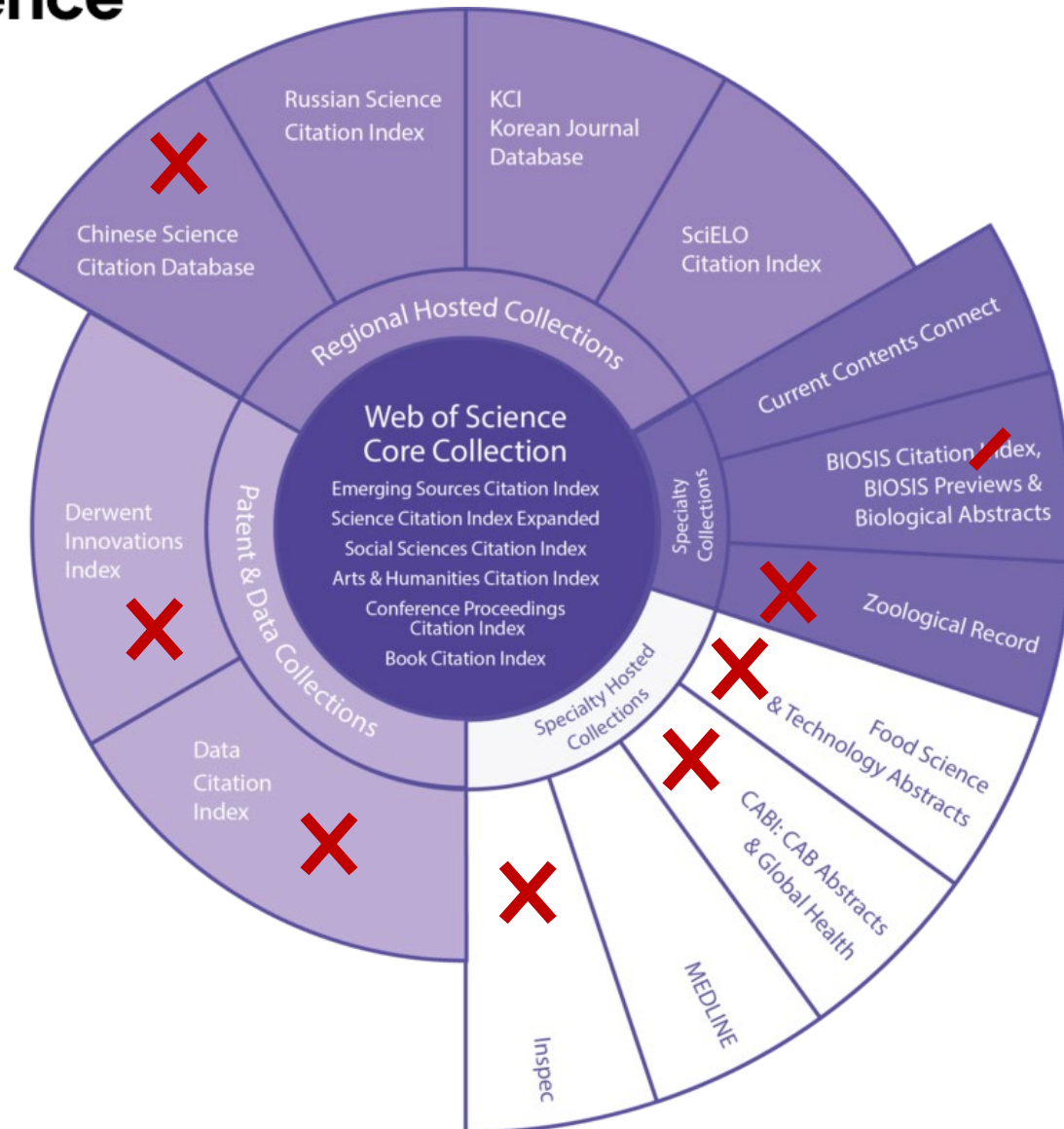
Searching within databases
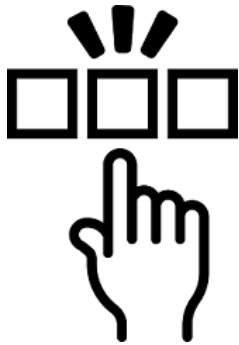
a) Web of Science (WoS)

b) Scopus

Web of Science Core Collection

- 1.5 billion cited references dating back to 1900
- 74.8 million total records
- 10.1 million total Open Access records
- 21,100+ unique global journals
- 254 disciplines

WEB OF SCIENCE CORE COLLECTION COVERAGE:

- Science Citation Index Expanded™ — from 1900 to present
  Fully indexes over 14,900 major journals across 150 disciplines

- Social Sciences Citation Index® — from 1900 to present
  Fully indexes over 4,900 journals across 55 social science disciplines, as well as selected items from over 14,920 of the world's leading scientific and technical journals

- Arts & Humanities Citation Index® — from 1975 to present
  Fully indexes over 2,500 arts and humanities journals, as well as selected items from over 18,800 scientific and social sciences journals

- Conference Proceedings Citation Index™ — from 1990 to present
  Fully indexes over 160,000 journal and book-based proceedings in science and social sciences and humanities, across 256 disciplines

- Book Citation Index[SM] — from 2005 to present
  Indexes over 60,000 editorially selected books in the sciences, social sciences and humanities, with 10,000 new books added each year

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Antoni M. Badia i Margarit, the optimistic linguist

The Humanities Library presents a bibliographic exhibition on Antoni M. Badia i Margarit

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🔍 Search

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University repository (DDD)

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Databases

PUC Consortial borrowing

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More information

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Access

Opening hours	›
Check the occupation in real time	›
The library, a safe place	›
Online library	›
Online advice service	›
Remote access	›

Resources

Loan Service	›
Theses	›
How to cite and create your bibliography	›
Training sessions	›
Mendeley	›

Scopus®

+ 5,000 Publishers

22,800+ Serial titles

+150,000 Books

70 million Items

1.4 Billion cited references dating back to 1970

Scopus®

~70,000 Main institutional profiles

16 million Author profiles

Identify and analyze which journals to read / submit to

Help researchers manage career – citation counts and h-index

Decide what, where and with whom to collaborate

Track impact of research; monitor global research trends

Find out what already exists in the global world of research

Determine how to differentiate research topics, find ideas

Scopus®

Health Sciences
30.4%
14,448 titles

Life Sciences
15.4%
7,295 titles

Physical Sciences
28%
13,312 titles

Social Sciences
26.2%
12,464 titles

Social sciences
12,464
- Psychology
- Economics
- Business
- A&H

Physical sciences
13,312
- Chemistry
- Physics
- Engineering

Health sciences
14,448
- 100% MEDLINE
- Nursing
- Dentistry

Life sciences
7,295
- Neuroscience
- Pharmacology
- Biology

Main research indicators

Authors

H Index and citations

Journals

Impact Factor

CiteScore

Impact Factor (IF)

Where?:

- ✓ *Journal Citation Reports* (Web of Science)

How?

- ✓ IF of a journal is calculated:

$$\textbf{2021 IF} = \frac{\text{Number of citations in 2021 to articles published by that journal in 2019 and 2020}}{\text{Total articles published by that journal in 2019 and 2020}}$$

Journal Citation Indicator (JCI)

Where?:

✓ *Journal Citation Reports* (Web of Science)

How?

✓ JCI Calculation:

The citations received during the 4 years prior to the year for which we want to obtain the indicator, the articles and reviews published in a journal during the previous 3 years are collected. Once this information is available, the citations received are related to those expected according to the same type of document, year and category, and the standardized impact for these three years of publication is calculated. The average for these three years will be the Journal Citation Indicator of the year.

H index and citations

Where?:

✓ *Author search*

Scopus
Web of Science Core Collection

How?

✓ <u>Citation count</u>: how many times an author has been cited by other authors

✓ <u>H-index</u>: an author has index *H* if *h* of his or her N_p papers have at least *h* citations each and the other ($N_p - h$) papers have ≤*h* citations each.

*If a researcher has an **H-index = 9**, it means that 9 of their articles have received **at least** 9 citations each. This would mean that the tenth article and the following ones must have received less than 9 citations.*

CiteScore

Where?:

✓ *Sources* *(Scopus)*

How?

✓ CiteScore of a journal is calculated:

$$
\frac{\text{2020}}{\text{CiteScore}} = \frac{\text{Number of citations in 2020 to articles published by that journal from 2017 to 2020}}{\text{Total articles published by that journal from 2017 to 2020}}
$$

Impact Factor- Exercise

Please answer the questions regarding the Impact Factor and Journal Citation Indicator.

Exercice 1

Impact Factor

Exercice 3

H index

Thank you!

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