

Information Literacy ICI

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* all images uploaded for educational purposes



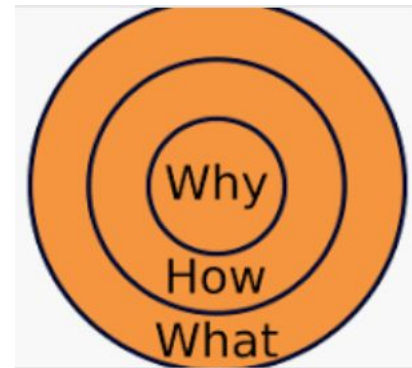
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Why do a literature review?

Helps to develop an understanding of relevant previous research

How to do a literature review?

- What are the databases I can use to search for relevant information
- What are the key resources on my topic (books, journals, reports)
- What research, methods and theory are there on my topic
- Who are the main researchers in my field
- What is the history, the chronological development of my topic



Keywords

Key phrases



- Using keywords is a vital part of research and writing, because of the practice of retrieving information electronically: keywords act as the search term. Use keywords that are specific, and that reflect what is essential about your research.

Boolean operators:

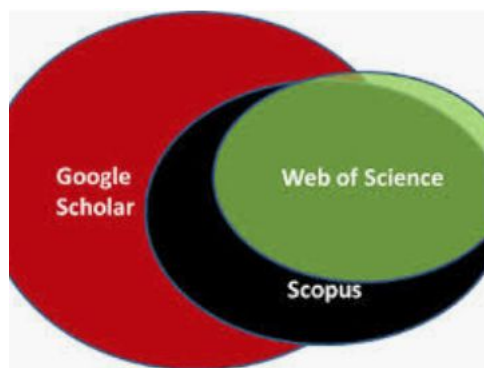
Combination / Phrase / Truncated / Wildcards

- <https://www.youtube.com/watch?v=cr7LscBEYC8>
- https://www.youtube.com/watch?v=r8Zei_azjX0

- Combination
AND (to focus), OR (to broaden) , NOT (to exclude)
- Phrase
“MMMMMM”
- Truncate
Engine*
- Wildcards
Col?r Wom#n

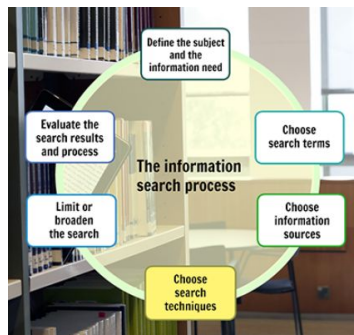
Bibliometric databases –what do they do?

- Give access to abstract and citation databases of peer-reviewed literature : scientific journals, books and conference proceedings
- Track, analyse and visualise research
- Key research impact metrics (impact factor, h-index, citations, publications)



Research Data | Analysis, Planning and

Searching Techniques



- Article databases, online library catalogues, and many popular search engines share several general searching techniques. Once you master these common searching techniques, you will save yourself time and find more relevant results.

Google Scholar

earthquake induced vibrations

All Images Videos News Shopping

About 3,120,000 results (0.69 seconds)

earthquake induced vibrations

About 72,000 results (0.08 sec)

- Any time
- Since 2020
- Since 2019
- Since 2016
- Custom range...

- Sort by relevance
- Sort by date

- include patents
- include citations

Create alert

[vibration of Egnatia Odos bridge induced vibrations](#)

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From 3ml to 192 hits. How?

Where

× Advanced search 

Find articles

with **all** of the words

with the **exact phrase**

with **at least one** of the words

without the words

where my words occur anywhere in the article
 in the title of the article

Return articles **authored by**
e.g., "PJ Hayes" or McCarthy

Return articles **published in**
e.g., *J Biol Chem* or *Nature*

Return articles **dated** between —
e.g., 1996

group **cable-stayed**

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to ... To reasonably

Exercise

- Cable-stayed bridges
- Cable-stayed bridges
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- Cable-stayed and
girder



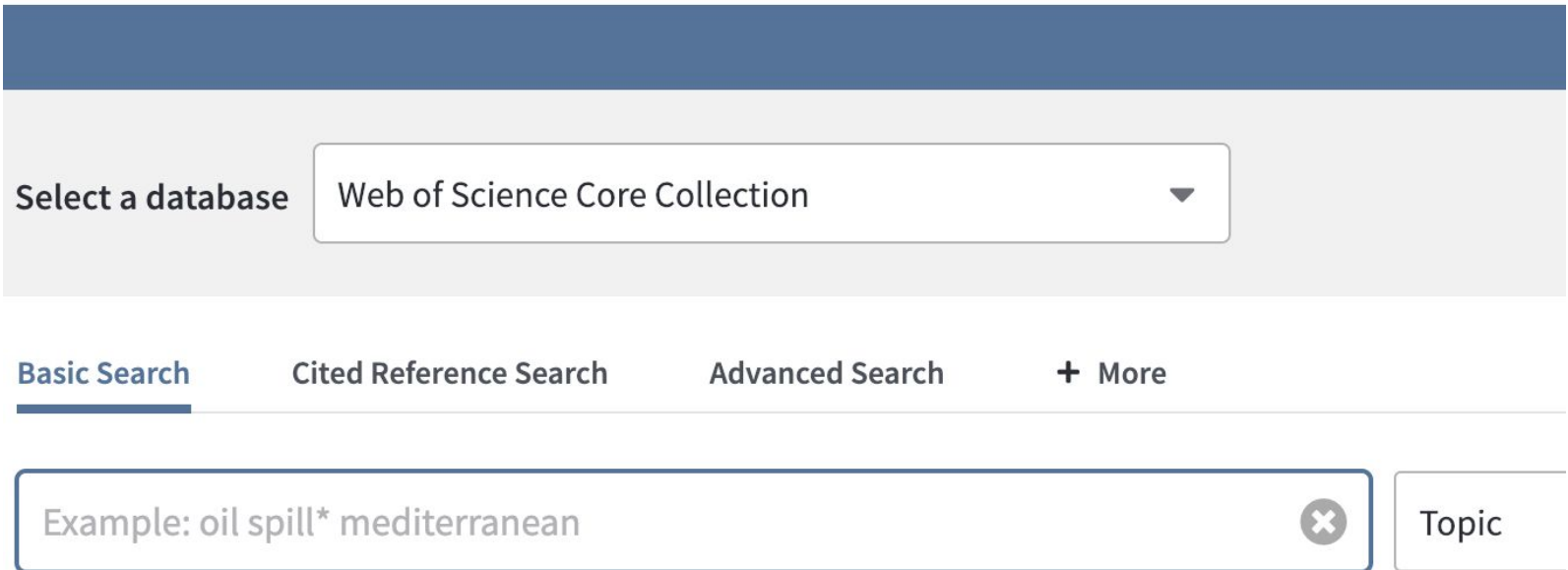
Exercise – search in google scholar

- Choose keyword
- Open Full Text
- Create Alert
- Number of citations for your supervisor

SCOPUS

Web of science

Web of Science



Select a database

[Basic Search](#) [Cited Reference Search](#) [Advanced Search](#) [+ More](#)

Citation overview

- Citation count is a widely used measure and constitutes a basis for calculating h-index and journal impact.
- Create alerts
- See collaborators and similar articles
- Scopus, WOS, Google Scholar

How to generate a Citation Overview and get the h-index of an author?

Perform an Author Search to search for your

Scopus

Search Sources

Author search

i To determine which author names should be grouped together under a single identifier number, the Scopus Author Identifier uses an algorithm that matches author names based on their affiliation, address, subject area, source title, dates of publication, citations, and co-authors. Documents with insufficient data may not be matched, this can lead to more than one entry in the results list for the same author. By default, only details pages matched to more than one document in Scopus are shown in search results. [About Scopus Author Identifier](#)

Documents Authors Affiliations Advanced

Author last name

Gaudio

e.g. Smith

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Author first name

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e.g. J.L.

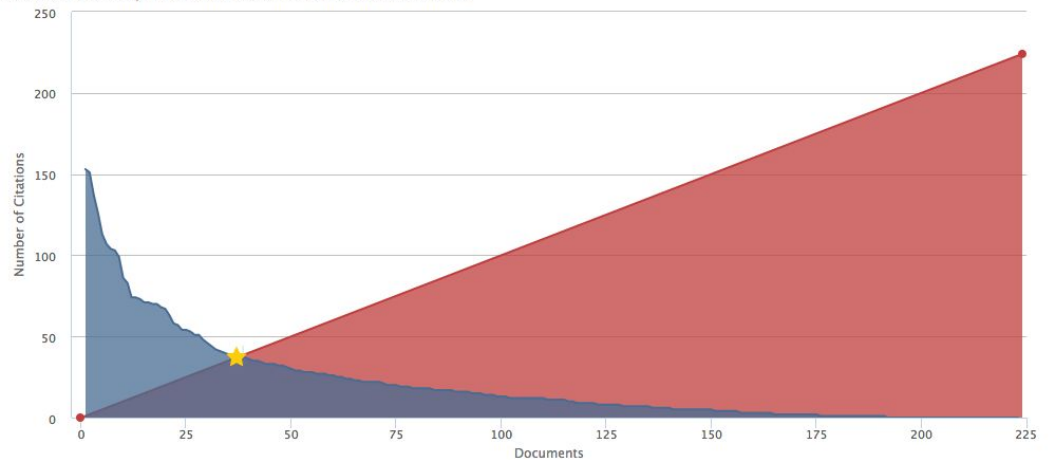
H-index – author evaluator

A scientist has index h if h of his or her N_p papers have at least h citations each.

In this chart the author has 223 documents, 37 of which have been cited at least 37 times.

This author's h -index is 37

The h -index is based upon the number of documents and number of citations.



- Twitter, Facebook, Pinterest, Google+ Tumblr....., science blogs, many mainstream media outlets (including the NY Times, The Guardian, non-English language publications like Die Zeit & Le Monde and special interest publications like Scientific American, New Scientist) and reference managers (including Mendeley)

-



Exercise

Web of Science

Find h-index for
Francesco Romeo

Scopus

Set up alert/rss for my
supervisor or another
author

How many Mendeley
readers does this article
have [10.1016/j.compscitech.2014.02.007](https://doi.org/10.1016/j.compscitech.2014.02.007)

**What is the call number
of this book:**

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