

How to conduct a literature review effectively



Paulina Milewska Customer Consultant Elsevier



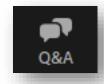
The session is being recorded

- All attendees will receive the link to the recording
- You can share the recording with your friends and colleagues



Would you like to ask a question?

- You can ask the host a question during the session
- Please use the Q & A feature on your screen to ask your question
- The host will answer relevant questions during the training





Agenda

- 1. Before searching:
 - a. Keywords, Operators & Filters
 - b. Search Tools
 - c. Types of Literature
 - d. Evaluate Information
 - e. Organize Research
- 2. Examples of solutions search and organise
- 3. How to search for scientific literature?
- 4. Online demonstration
- 5. Q&A session



Keywords, operators and filters

Brainstorm keywords

Expand your keywords

Use boolean operators

Refine your search results









At the library:
Consult a liaison
librarian or subject
specialist.



Search Tools Select the best tools:

Abstract and citation database

Full-text database

Search box on library homepage Mutlisearch/Discovery

Library catalog

Institutional Repository (IR)

Web search engine













At the library:
Find
research/subject
guides online.



Types of literature

You should find:

Articles

- Journal
- Magazine
- Newspaper

Books

- Monograph
- Ebook
- Reference work

Data

Types of available data:

- Equations
- Charts and Graphs
- Chemical

Reactions

- Data Sets
- Maps /geographic data

*A name for other research material such as:

Grey

Literature*

- Conference proceeding
- White paper
- Dissertation or thesis

- Patent
- Other publication
- Published report or dataset

At the library: Get help via email and online chat.



Evaluate information

To determine trustworthiness of the material, try the CRAAP test developed by the *Meriam Library* at California State University, Chico¹

Currency

• When was the information published and is that important to know?

Relevance

 How important is the information to your needs?

Authority

- Who is the author and what are their credentials?
- Do they work for a reputable institution?
- Was the information published in a peer-reviewed journal?

Accuracy

- How reliable is the information?
- Does it lack citations?
- Are there spelling errors?

Purpose

 Is it a well-balanced independent piece of research, or intended to sell a product or idea?

At the library:

Sign up for a oneto-one research consultation.



Organize research

Save materials such as article PDFs into a document library and/or download the citation information

Citation Manager / Reference Manager / Document Library

An online tool or desktop software used to organize and store citations and full-text articles or other documents, create bibliographies, insert in-text citations into a paper, and share references with research partners.

> At the library: Take an information skills workshop.

Citation

The act of explaining the source of the information found during the course of your research. Citation is a mandatory scholarly practice that gives credit and helps prevent plagiarism Citations may be used in bibliographies, footnotes and within the body of your text. Common citation formats are APA, MLA and Chicago style.

Example:

Crystal Renfro, The Use of Visual Tools in the Academic Research Process: A Literature Review, The Journal of Academic Librarianship, Volume 43, Issue 2, March 2017, Pages 95-99, ISSN 0099-1333,

http://dx.doi.org/10.1016/j.acalib.2017.02.004





Search and organize tools

Examples



Why should I use ScienceDirect or Scopus instead of Google?

designed for researchers

only peer-reviewed literature

Scopus abstract
database has the
broadest coverage of
peer reviewed
sources

20% of global market share.
Elsevier publishes 1/5

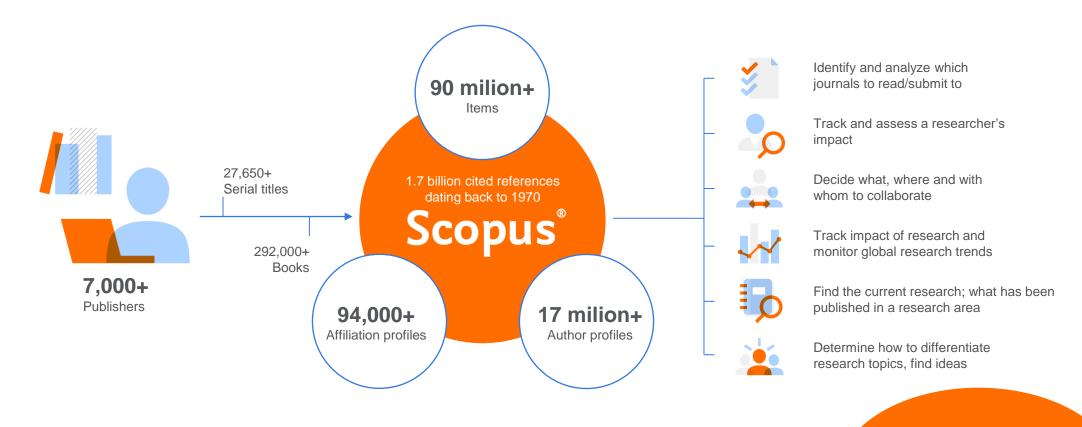
articles globally.
Full text is available on
ScienceDirect.com

NO mystery in Scopus and ScienceDirect search

good practices from the early stage of scientific career



Scopus is a source-neutral abstract and citation database of peer-reviewed literature, curated by independent subject matter experts.



Scopus places powerful discovery and analytics tools in the hands of researchers, librarians, institutional research managers and funders.

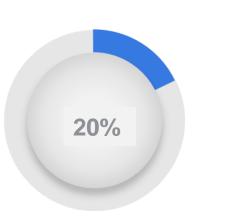
Abstract and citation database

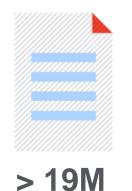


ScienceDirect®

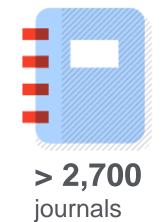
Article output

Elsevier's article output accounts for nearly 20% of global research



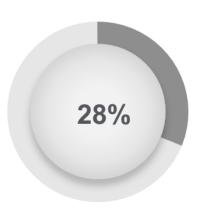


articles



Driving partner of research

Elsevier journals and books account for 28% of citations





eBooks





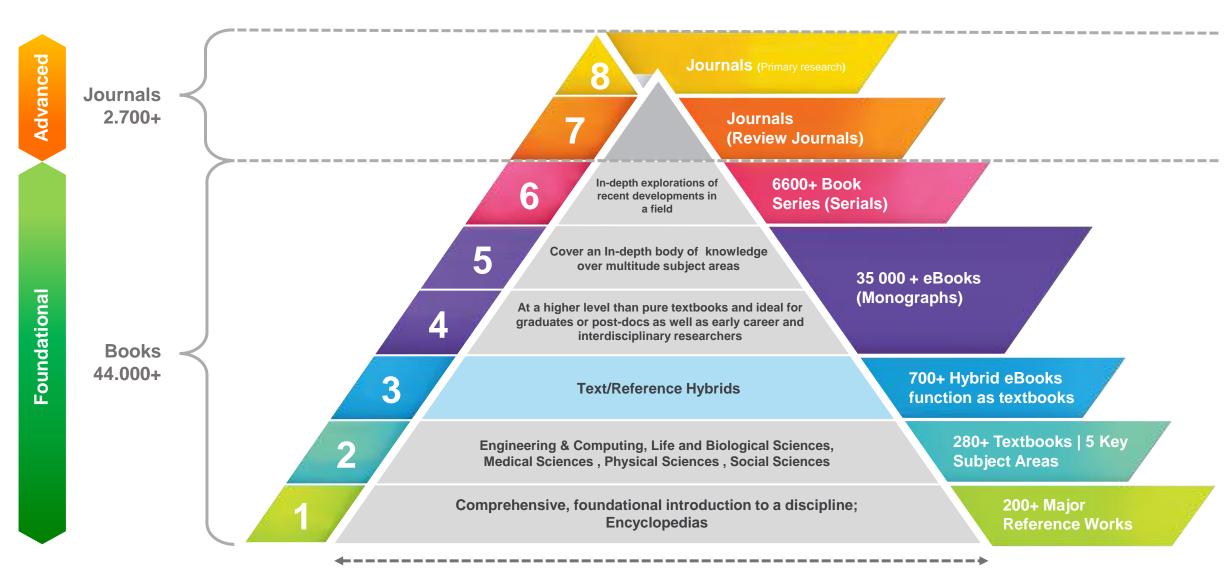
Full-text database



Article growth details

Sources: https://www.elsevier.com/ data/assets/pdf file/0005/1095953/Fast-Facts.pdf https://www.elsevier.com/about/this-is-elsevier

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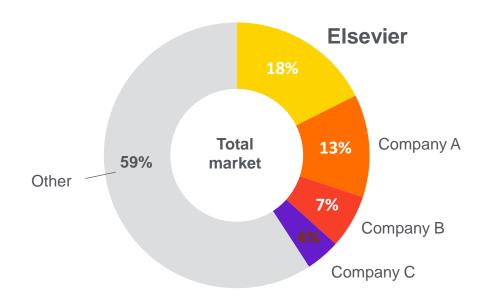


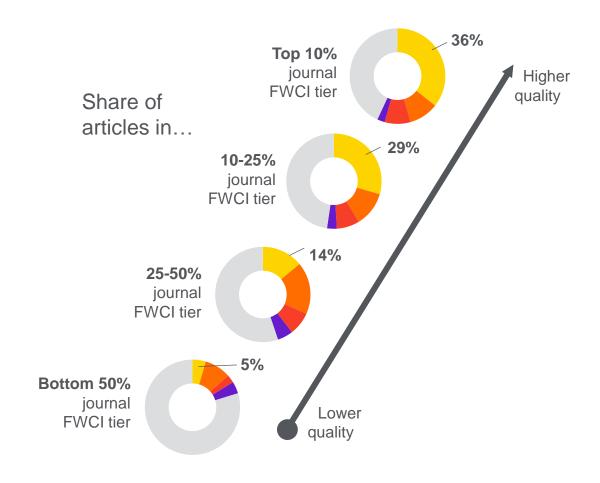
ScienceDirect and Scopus – sources quality



Leading research impact, regardless of discipline, size and type

Share of articles per journal Field Weighted Citation Impact Tier*





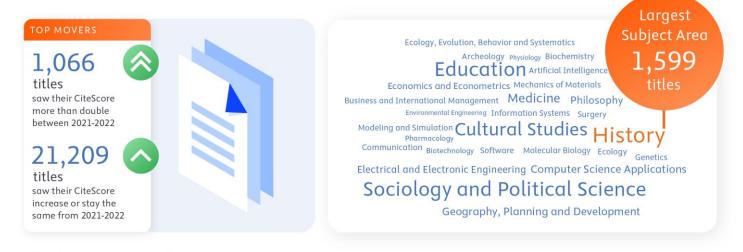


*Article share (articles published in 2020) per journal Field Weighted Citation Impact (FWCI) tier.
Field Weighted Citation Impact (FWCI) is calculated on the basis of citations in 2016-20 to articles published in 2016-20 and accounts for article type, publication year and subject field. Source: Scopus data updated Feb 2022

Scopus

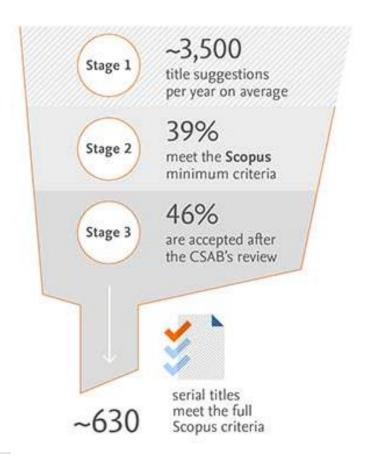
28,100+ active titles

333 categories



CiteScore™ metrics 2022 insights

Powered by Scopus®





When should I use ScienceDirect and when should I use Scopus?

Use ScienceDirect when:



- you're looking for Elsevier's output
- you want to read publications in a full text
- Topic Pages are here:)



Use Scopus when:

- you want an overview of the state of work in your research area



- you want to be up to date on a specific topic, observe top authors and scientific institutions
- you want to analyze research output provided by more than
 7,000 Publishers



What is Mendeley?

Mendeley is free reference management software to support researchers. It can help you:

Organize

Build and organize your reference library

Read and Annotate

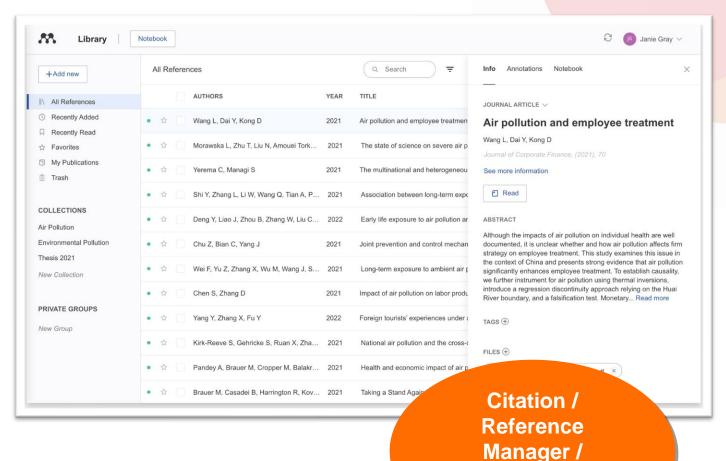
See all your insights in one place

Cite

Seamlessly cite references as you write, and create bibliographies

Collaborate

Share references and insights with a team and annotate together in real time



Document Library







How to search?



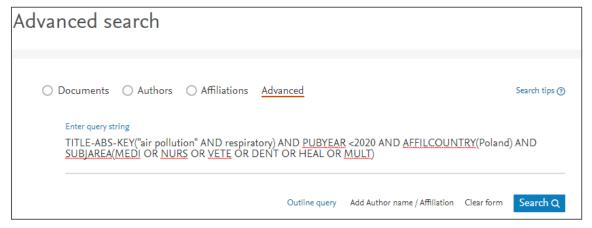
Searching strategies on Scopus and ScienceDirect

You can start broadly and then filter the results

OR

you can predefine the criteria and receive precise results

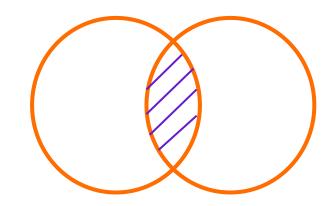


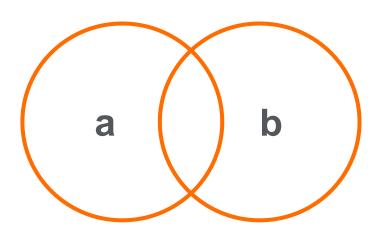




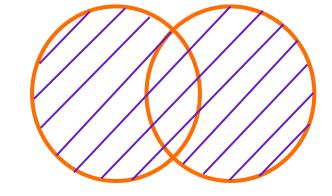
2. Boolean operators

a AND b

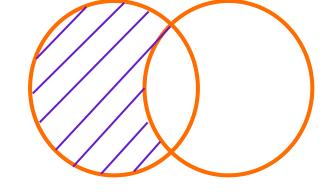




a OR b



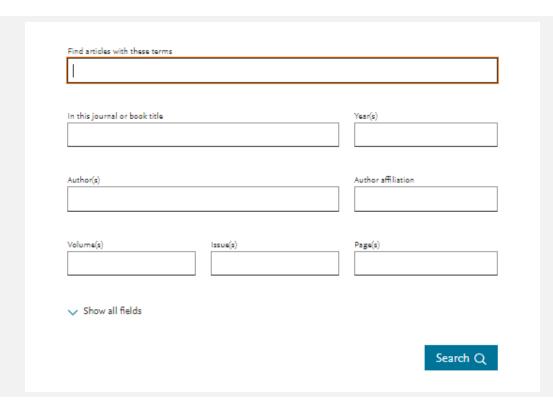
a NOT b





ScienceDirect – advanced search

Our Advanced Search helps you narrow your focus from the start



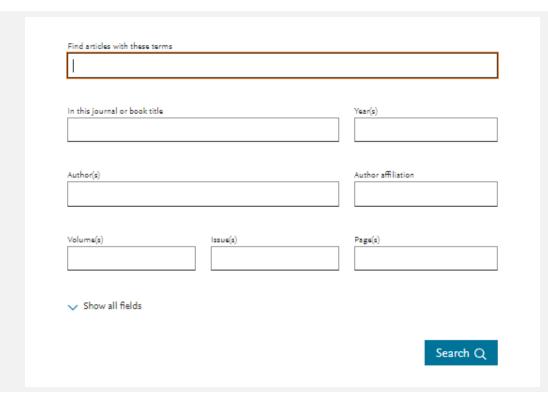
Our Advanced Search supports

- ✓ Boolean operators including: AND, OR, AND NOT, NOT (-),
- Nested clauses using parenthesis, for example:

((("heart attack" OR "myocardial infarction" OR cardiac) AND diabetes) OR ischemia)



ScienceDirect – advanced search



You can combine terms using up to 8 Boolean operators AND, OR and NOT. Grouping terms using parentheses is also possible, as well as creating multi-level nested clauses. For example: ("black hole" OR radiation) AND gravity.

Our Advanced Search offers you the possible to exclude terms by using the minus-hyphen operator. For example, to find articles related to depression but not economic depression, search for: depression-economics.

You can always use an option: Title, abstract, key words, to narrow your search queries.



'I want to understand unfamiliar terms and concepts'



Neuroscience

Volume 172, 13 January 2011, Pages 196-204



Cognitive, Behavioral, and Systems Neuroscience

A sex comparison of the anatomy and function of the main olfactory bulb-medial amygdala projection in mice

N. Kang^a, E.A. McCarthy^a, J.A. Cherry^b, M.J. Baum^a, [≜] ⋅ [™]

Bhow more

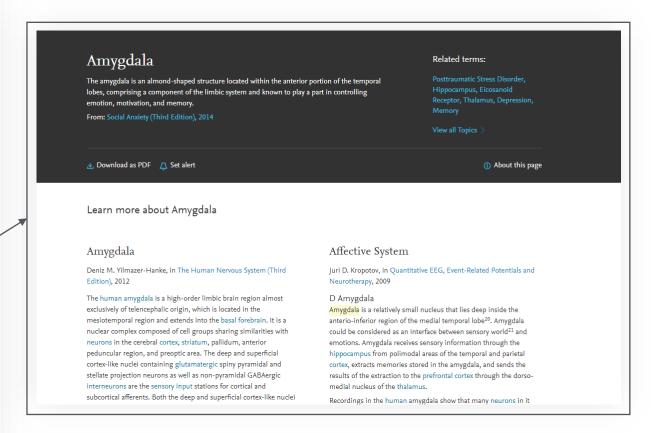
http://dx.doi.org/10.1016/j.neuroscience.2010.11.003

Get rights and conten

Abstract

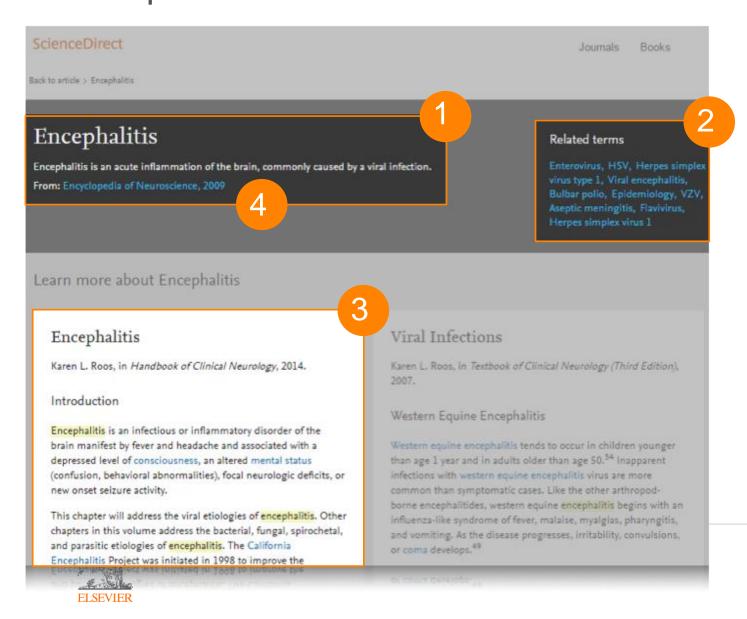
We previously reported that some main olfactory bulb (MOB) mitral/tufted (M/T) cells send a direct projection to the "vomeronasal" amygdala in female mice and selectively respond to volatile male mouse urinary odors. We asked whether MOB M/T cells that project to the vomeronasal amygdala exist in male mice and whether there is a sexually dimorphic response of these neurons to volatile male urinary pheromones.

Gonadectomized male and female mice received bilateral injections of the retrograde





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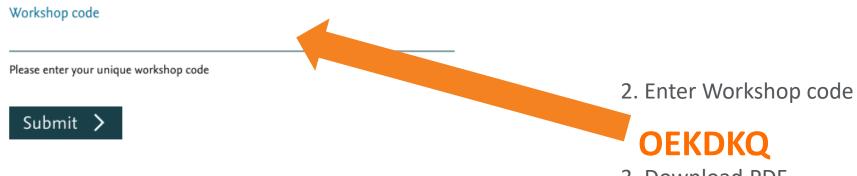
Online demonstration



Certificates

1. Open: https://researcheracademy.elsevier.com/workshop

Workshop



3. Download PDF









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Paulina Milewska p.milewska@elsevier.com





12:00-13:30 CET
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