



Research Skills Session 2: Selecting keywords

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https://publons.com/researcher/1692944 http://scholar.google.com/citations



All of my presentations are available online at: <u>https://figshare.com/authors/Nader_Ale_Ebrahim/100797</u>

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8th October 2019

Abstract

Keywords (commonly called search terms), are the words that researchers enter into the database search box. Keywords search, help researchers to find relevant papers to their research interest. The researcher need to select appropriate alternative keywords to reach the maximum number of published documents. There are some tools for choosing the best set of keywords for a research. Dr. Nader has collected over 700 Research Tools that enable researchers to follow the correct path in research for producing high-quality research outputs with more accuracy and efficiency. The workshop concentrates on how to choose the right keywords for your research.

Keywords: H-index, Improve citations, Research tools, Bibliometrics, Research visibility, Research impact

Do Research, Don't Re-Search



Research Tools Mind Map



393.7k views

Session Topic

1. Introduction

- 2. Selecting keywords
- 3. Finding Research Papers
- 4. Evaluate a paper quality
- 5. Managing Research
- 6. Read a paper
- 7. Indexing Desktop Research Tools
- 8. Avoid Scientific Misconduct
- 9. Writing a Paper
- 10. Improve paper quality
- 11. Target Suitable Journal
- 12. Improve your Research Visibility and Impact

Tasks for the first session

- **1. Structure & planning your research** (Draw the literature map)
- 2. Read:
 - <u>https://www.dlsweb.rmit.edu.au/lsu/content/2_AssessmentTasks/assess_tuts/</u> <u>lit_review_LL/reading.html</u>
 - Cottrell, S. (2005). <u>Critical thinking skills Developing Effective Analysis and</u> <u>Argument</u>. Basingstoke: Palgrave Macmillan.
 - Chapter 3 of "Creswell, J. W. (2012). <u>Educational research: Planning,</u> <u>Conducting, and Evaluating Quantitative and Qualitative Research</u> (4th ed.). Boston: Pearson Education, Inc"
 - Chapter 3 of "Saunders, M., Lewis, P., & Thornhill, A. (2009). <u>Research methods</u> <u>for business students</u> (5th ed.). Edinburgh Gate, Harlow, Essex CM20 2JE, England: Pearson Education Limited."

Outline

No.	Topic
1	Major Citation Databases
2	Web of Science Core Collection
3	SCOPUS
4	Identifying a Research Problem
5	Reviewing the Literature
6	Developing a search strategy, Finding keywords
7	The literature review process
8	Selecting Keywords
9	Master Keywords List

Major Multidisciplinary Citation Databases

- Web of Science
- A Clarivate Analytics company

• SCOPUS



Google Scholar



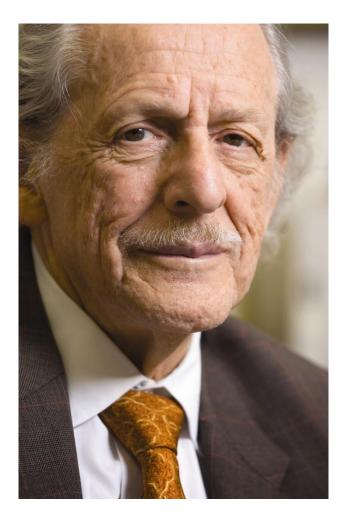
Microsoft Academic



The Institute for Scientific Information (ISI)

The Institute for Scientific Information (ISI) was founded by Eugene Garfield in 1960. ISI was acquired by Thomson Scientific & Healthcare in 1992, and became known as **Thomson ISI**. It was a part of the Intellectual Property & Science business of Thomson Reuters until 2016, when the IP & Science business was sold, becoming Clarivate Analytics. In February 2018, Clarivate announced it will re-establish ISI as part of its Scientific and Academic Research group.^[6] It exists as a group within Clarivate as of November 2018.

Eugene Garfield, Ph.D.



Founder & Chairman Emeritus Institute for Scientific Information (ISI)

For more Info

Source: http://www.garfield.library.upenn.edu/



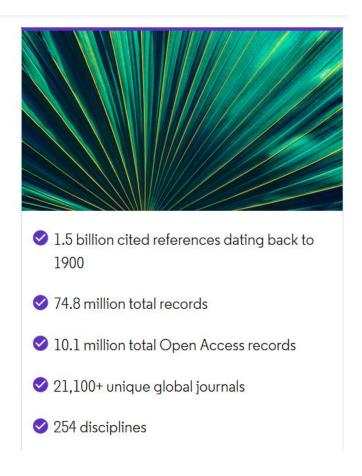
Resources Services

ISI

Clarivate Analytics company

Web of Science Core Collection

A trusted, high quality collection of journals, books, and conference proceedings

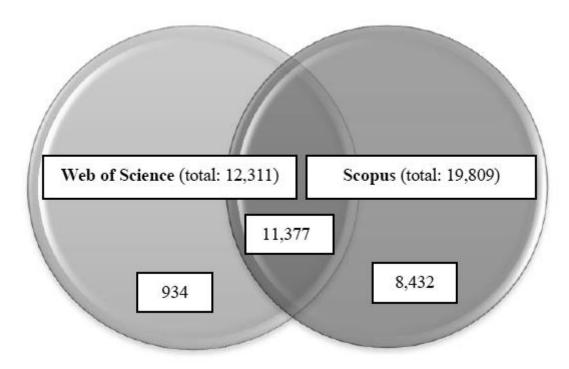


Source: https://clarivate.com/webofsciencegroup/solutions/web-of-science-core-collection/

Scopus (Launched 2004)

Scopus is Elsevier's abstract and citation database launched in 2004. Scopus covers nearly 36,377 titles from approximately **11,678** publishers, of which **34,346** are peer-reviewed journals in top-level subject fields: life sciences, social sciences, physical sciences and health sciences.

A Comparison between Two Main Academic Literature Collections: Web of Science and Scopus Databases



Source: Aghaei Chadegani, Arezoo and Salehi, Hadi and Yunus, Melor Md and Farhadi, Hadi and Fooladi, Masood and Farhadi, Maryam and Ale Ebrahim, Nader, A Comparison between Two Main Academic Literature Collections: Weboot Science and Scopus Databases (Ap(il 7/2013). Asian Social Science, Vol. 9, No. 5, pp. 18-26, April 27, 2013. Available at SSRN: <u>http://ssrn.com/abstract=2257540</u> © 2019-2021 Dr. Nader Ale Ebrahim

Identifying a Research Problem

Researchers begin a study by identifying a research problem that they need to address. They write about this "problem" in the opening passages of their study and, in effect, give you as a reader the rationale for why the study is important and why you need to read their study.

<u>Reference: Creswell, J. W. (2012). Educational research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research</u> (4th ed. ed.). Boston: Pearson Education, Inc.

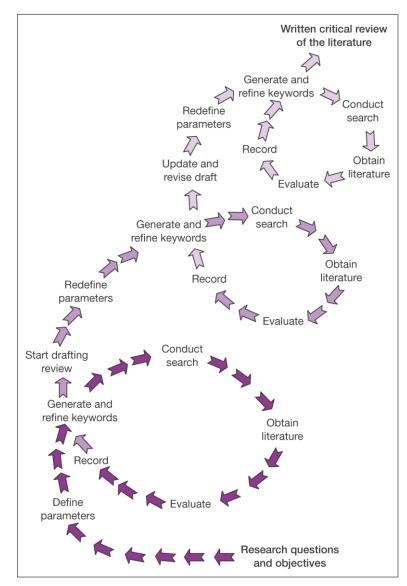
Reviewing the Literature

With so much information available, searching and locating good literature on your topic can be challenging. Five steps will provide a sense of how researchers proceed in reviewing the literature are:

- **1.** *Identify key terms to use in your search for literature.*
- 2. Locate literature about a topic by consulting several types of materials and databases, including those available at an academic library and on the Internet.
- **3.** *Critically evaluate and select the literature for your review.*
- 4. Organize the literature you have selected by abstracting or taking notes on the literature and developing a visual diagram of it.
- 5. Write a literature review that reports summaries of the literature for inclusion in your research report.

<u>Reference: Creswell, J. W. (2012). Educational research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research</u> (4th ed. ed.). Boston: Pearson Education, Inc.

Developing a search strategy, Finding keywords



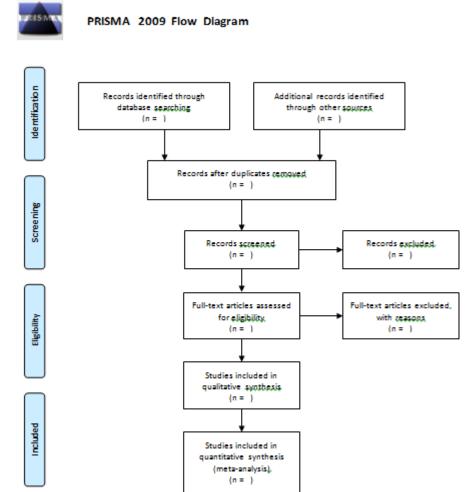
The literature review process

Source: C Mark Saunders, Philip Lewis, Adrian Thornhill and Martin Jenkins 2003, Research methods for business students / Mark Saunders, Philip Lewis, Adrian Thornhill. — 5th ed.

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Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA)



From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). *Preferred Reporting Items for Systematic Reviews* and *Meta-Analyses*: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097

For more information, visit <u>www.prisma-statement.org</u>.

Effective searching

» Developing a search strategy
» Searching the library catalogue
» Finding journal articles and papers
» Searching the Internet
» Other sources

Source: http://learnline.cdu.edu.au/myresearch/plan/searchstrategy.html

Developing a search strategy

- <u>» Defining the topic</u>
 - » Considering the scope of your topic
 - » Identifying the main or important aspects
 - » Compiling a list of keywords
 - » Developing your search strategy
- It is important to develop a search strategy to, not only, find the information you need but to also clarify your topic.

How to Find and Develop a Viable Research Topic?

Step One: Identify a Topic.

Step Two: Test Your Topic.

- Test the main concepts or keywords in your topic by looking them up in the appropriate background sources or by using them as search terms.
- If you are finding too much information and too many sources, narrow your topic by using the **and** operator
- Finding too little information may indicate that you need to broaden your topic.

Source: http://guides.library.cornell.edu/c.php?g=32323&p=203723

Improving Readership of Your Articles

Appearing at the top of the list of search results, and having a useful description of your work, greatly improve the likelihood that a reader will find and download your document.

- Abstracts should include **keywords** that potential readers are likely to use in searches. It is especially valuable to modify and reuse words that appear in the document's title and full text to improve the article's rank when readers search for those words.
- The first sentence of the abstract is all that is likely to be displayed in the search page results, so make your first sentence one that will encourage readers to click the link.

Research Tools Mind Map



Selecting Keywords

Scopus

Coogle Trenos

Clarivate Analytics

MASTER KEYWORDS LIST Journal of International Business Studies

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Design Studies

KEYWORDS LIST

Choose up to five keywords for your paper from this list. You may substitute one keyword of your own choice not on this list.

aesthetics architectural design artificial evolution automotive design built environment case based reasoning case study/studies collaborative design

environmental impact epistemology evaluation expert systems facility programming generic design graphic design



MeSH (Medical Subject Headings)

Master Keywords List

pəlgrəve macmillan		Institutional Registration / Admin Login / Personal Registration / My account / Subscribe / E-alert sign up /				
SITE MAP > SUBJECT AREAS >	SEARCH This journal 🥥	Go ADVANCED SEARCH >				
	MASTERCARD FINANCE, PAYMENTS E-COMMERCE CHAIR VACANO	12				
	Journal home > Master list of keywords					
Journal home Advance online	MASTER KEYWORDS LIST					
publication		I Sign up for e-alerts				
i About AOP	 <u>Research methods</u> Theories 	Recommend this publication				
Current issue	* Topics	to your library				
Archive	The master keyword list is split into 3 main categories: research methods,	Receive RSS Web feeds About RSS Web feeds				
L Editorials - FREE	theories, and topics. When choosing your keywords, please try to choose at least	Follow us on Twitter				
L Most Cited Articles -	one keyword from each category.					
L JIBS Collections	RESEARCH METHODS . Top	Academy of				
Catalog entry	Data Source	ab				
200 Online submission	Primary	International B u s i n e s s				
Instructions for authors	Secondary	JIBS/AIB Services				
Palgrave Open	Bassard Basian	AIB member log-in				
About the journal	Research Design	Adopt a Library				
Statement of editorial policy	Comparative Thinking					
Code of ethics	Construct Development and Evaluation	AIB resources				
Calls for papers	Cross-Cultural Experiments					
Frequently asked questions Contact editorial team	Cross-Cultural Research/Measurement Issues	Book reviews				
Contact editorial team	Econometrics	Partners				
Subscribe	Equivalency	Academy of International Business				

MeSH Tree Structures for "Genes"

MeSH Tree Structures

<u>Genetic Phenomena [G05]</u> <u>Genetic Structures [G05.360]</u> <u>Genome [G05.360.340]</u> Genome Components [G05.360.340.024]

Attachment Sites, Microbiological [G05.360.340.024.079]

CpG Islands [G05.360.340.024.159]

DNA Sequence, Unstable [G05.360.340.024.189] +

DNA, Intergenic [G05.360.340.024.220] +

Genes [G05.360.340.024.340]

Alleles [G05.360.340.024.340.030]

Gene Components [G05.360.340.024.340.137] +

Genes, cdc [G05.360.340.024.340.220]

Genes, Chloroplast [G05.360.340.024.340.225]

Genes, Developmental [G05.360.340.024.340.230] +

Genes, Dominant [G05.360.340.024.340.240]

Genes, Duplicate [G05.360.340.024.340.250]

Genes, Essential [G05.360.340.024.340.270]

Genes, Helminth [G05.360.340.024.340.310]

Genes, Immediate-Early [G05.360.340.024.340.330]

Genes, Immunoglobulin [G05.360.340.024.340.335] +

Genes, Insect [G05.360.340.024.340.340]

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Foundations of searching

- Virtual AND (Team* OR group OR "Virtual R&D Teams") NOT (Management OR Manager)
- The toolset?
 - 1. "phrase searching"
 - 2. truncat*
 - 3. OR
 - 4. AND, NOT
 - 5. (brackets OR parentheses)

Truncation

Symbol	Retrieves			
*	Zero or more characters *carbon* <i>carbon, hydrocarbon, polycarbonate</i>			
\$	Zero or one character colo\$r <i>color, colour</i>			
?	One character only en?oblast <i>entoblast, endoblast</i>			



THOMSON REUTERS

Keywords Plus

 KeyWords Plus[®] are index terms created by Thomson Reuters from significant, frequently occurring words in the titles of an article's cited references.

Source: http://images.webofknowledge.com/WOK46/help/WOS/h_fullrec.html

Keywords and Keywords Plus[®]

Authors sometimes provide a list of keywords or terms that they feel best represent the content of their paper. These keywords are contained in the ISI record (1991 data forward, depending on the <u>database</u>) for each article and are searchable. In addition, ISI generates KeyWords Plus for many articles. **KeyWords Plus** are words or phrases that frequently appear in the titles of an article's references, but do not necessarily appear in the title of the article itself. KeyWords Plus may be present for articles that have no author keywords, or may include important terms not listed among the title, abstract, or author keywords.

Source: http://wos.isitrial.com/help/helpdefs.html

Keywords Plus® Creation Cycle

SAMPLE SOURCE RECORD

Title: Respiratory and immunological findings in brewery workers Author(s): GodnicOvar J; Zuskin E; Mustajbegovic J; Schachter EN (REPRINT); Kanceljak B; Macan J; Ilic Z; Ebling Z Journal: AMERICAN JOURNAL OF INDUSTRIAL MEDICINE, 1999, V35, N1 (JAN), P 68-75 Author Keywords: brewery workers ; respiratory symptoms ; lung function ; immunology

Selected Cited References: (39 total, 14 shown for demonstration)
"WHO, 1886, P39, EARL DET OCC LUNG DI
BLASKI CA, 1996, V154, P334, AM J RESP CRIT CARE
HUY T, 1991, V144, P1314, AM REV RESPIR DIS
IVERSEN M, 1990, V20, P211, CLIN EXP ALLERGY
KORTEKANGASSAVO.O, 1993, V48, P147, ALLERGY
KORTEKANGASSAVO.O, 1994, V24, P336, CLIN EXP ALLERGY
MAESTRELLI P, 1992, V22, P103, CLIN EXP ALLERGY
MALMBERG P, 1986, V10, P316, AM J IND MED
MCCARTHY PE, 1985, V42, P106, BRIT J IND MED
MEZNAR B, 1989, P148, 14 INT C EUR AC ALL
REVSBECH P, 1990, V45, P204, ALLERGY
SHELDON JM, 1957, P507, MANUAL CLIN ALLERGY
VIDAL C, 1995, V75, P121, ANN ALLERG ASTTIMATIM

ISI SOURCE DATABASE (1970-PRESENT)

—No title available

The role of atopy in grain dust-induced airway disease

GRAIN DUST AND LUNG-FUNCTION - DOSE-RESPONSE RELATIONSHIPS

MITE ALLERGY AND EXPOSURE TO STORAGE MITES AND HOUSE DUST MITES IN FARMERS

SKIN PRICK TEST REACTIONS TO BREWERS-YEAST (SACCHAROMYCES-CEREVISIAE) IN ADULT ATOPIC-DERMATITIS PATIENTS

IMMEDIATE HYPERSENSITIVITY TO BAKERY, BREWERY AND WINE PRODUCTS IN YEAST-SENSITIVE ATOPIC-DERMATITIS PATIENTS

GUIDELINES FOR THE DIAGNOSIS OF OCCUPATIONAL ASTHMA

RELATIONSHIP BETWEEN SYMPTOMS AND EXPOSURE TO MOLD DUST IN SWEDISH FARMERS

LUNG-FUNCTION AFTER EXPOSURE TO BARLEY DUST

No title available

STORAGE MITE ALLERGY AMONG BAKERS

KeyWord Plus(R): ATOPIC-DERMATITIS PATIENTS; LUNG-FUNCTION; GRAIN DUST; OCCUPATIONAL ASTHMA; MITE ALLERGY; STORAGE MITE; EXPOSURE, HYPERSENSITIVITY; SYMPTOMS; DISEASE

No title available

DUST-RELATED AND ENDOTOXIN-RELATED ACUTE LUNG-FUNCTION CHANGES AND WORK-RELATED SYMPTOMS IN WORKERS IN THE ANIMAL FEED-INDUSTRY

FOOD-INDUCED AND OCCUPATIONAL ASTHMA DUE TO BARLEY FLOUR

FREQUENTLY OCCURRNING TITLE WORDS

ATOPIC-DERMATITIS PATIENTS LUNG-FUNCTION GRAIN DUST OCCUPATIONAL ASTHMA MITE ALLERGY STORAGE MITE EXPOSURE HYPERSENSITIVITY SYMPTOMS DISEASE

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Source: http://www.lib.vt.edu/help/handouts/databases/wos-workbook-8.pdf

Keywords Plus- Example

- New Product Development in Virtual Environment (ISI Indexed)
- Author Keywords: New product Development; Virtual teams; Concurrent Collaboration; Review paper
- KeyWords Plus: DEVELOPMENT TEAMS; PERFORMANCE; TECHNOLOGY; KNOWLEDGE; COMMUNICATION; PERSPECTIVE; INTEGRATION; INNOVATION; NETWORK; WORKING

Keywords Selection

Results: 26 (from Web of Science Core Collection) You searched for: TITLE: ("Envelope Design") Timespan: All years. Indexes: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

Results: 477

(from Web of Science Core Collection) You searched for:

TITLE: (("efficiency envelope*") OR (envelope NEAR/5 building) OR (envelope NEAR/5 energy) OR ("envelope* energy* saving*") OR ("Envelope* System*") OR ("thermal* envelope*") OR ("Envelope* Design*"))

Timespan: All years. Indexes: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

Keywords Selection

TABLE 1: Search phrases used

Field	Search Strings
general/other	brain surgery – neurosurgery – hydrocephalus – peripheral nerve surgery
vascular	aneurysm surgery – arteriovenous malformation* – carotid endarterectomy – cavernous malformation – extracranial intracranial bypass – intracranial aneurysm* – [intracranial or intracerebral] and [hematoma or hemorrhage] – subarachnoid hemorrhage – vasospasm
tumor	brain tumor surgery – meningioma – glioblastoma* – glioma – meningioma – radiosurgery – radiotherapy
trauma	brain injury – coma – head injury – brain damage – spinal injury
functional	deep brain stimulation – epilepsy surgery – Parkinson's surgery – spinal cord stimulation – trigeminal neuralgia – stereotactic – stereotaxic – stereotaxy
spine	spine fusion – spine fixation – spine surgery – spinal surgery – spinal fusion – spinal fixation – [cervical or thoracic or lumbar] and [disc* or disk*]

* The asterisk was included in the search string as a wild card character. For example, the search "disc*" would return results for "discs" or "discs" or

Source: Ponce, F. A., & Lozano, A. M. (2014). Highly cited works in neurosurgery. Part II: the citation classics A review (vol 112, pg 233, 2010). Journal Of Neurosurgery 120(5), 1252-1257. doi: 10.3171/2014.2.JNS14358a



Keyphrase analysis

2011 to >2016 🗸

no subject area filter selected

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Top 50 keyphrases by relevance, based on 2,263 publications | Learn about keyphrase calculations >>



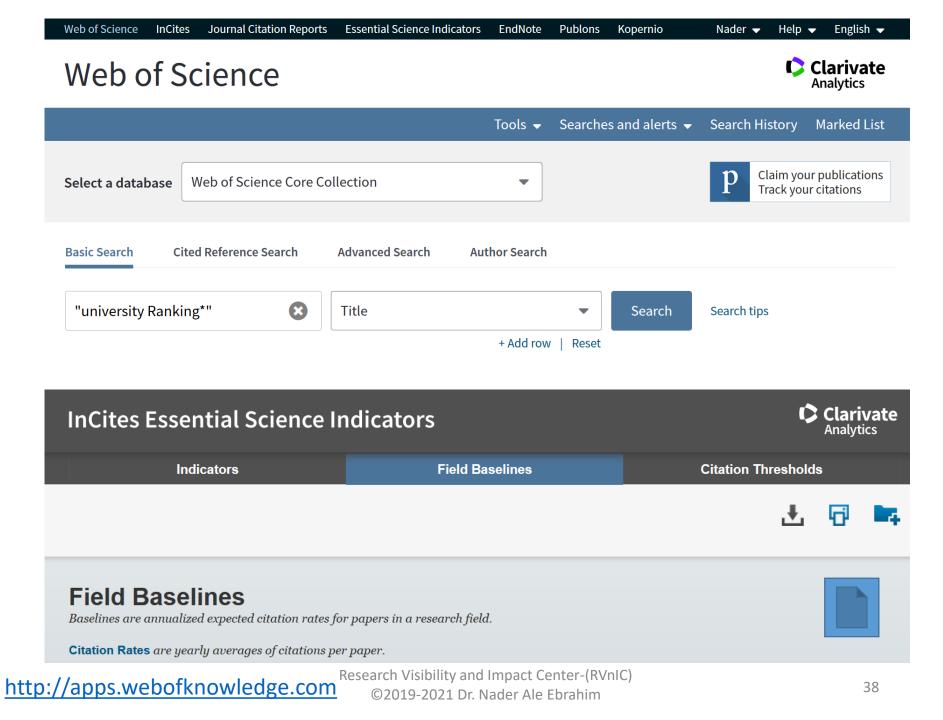
AAA relevance of keyphrase | declining growing (2011-2015)

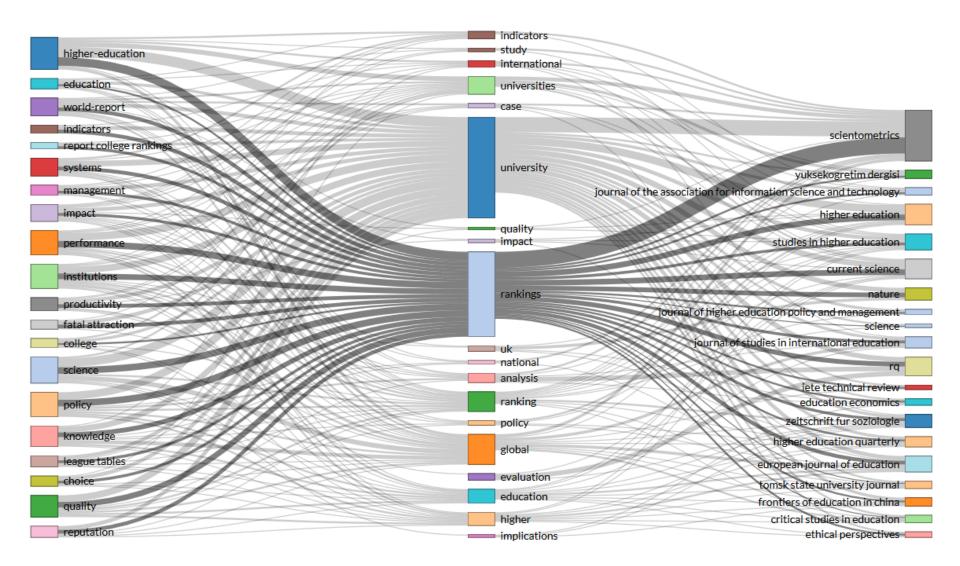
https://www.scival.com

> Analyze in more detail

Scopus	Search Sources	Alerts Lists	Help 🗸 SciVal 🤊	Nader Ale Ebrahim 🗸	
Document search	ו			Comp	are sources 🗲
 Documents Authors Search "university Ranking*" <i>E.g.</i>, "Cognitive architectures" AND robots Limit 	Affiliations Ad	lvanced	ticle title Reset form	+	rch tips ⑦

https://www.scopus.com





The graph created by **bibliometrix (**Aria, M. & Cuccurullo, C. (2017). **bibliometrix: An R-tool for comprehensive science mapping analysis**, Journal of Informetrics, 11(4), pp 959-975, Elsevier, DOI: 10.1016/j.joi.2017.08.007)

Tasks for the second session

- 1. Create the log file for your search term/s
- 2. Identify the main keywords set for your research
- 3. Identify the alternative keywords set for your research
- 4. Evaluate the search terms
- 5. Looking for selected keywords sets on:

✓ SCOPUS

✓ Web of Science Core Collection





Thank you!

Nader Ale Ebrahim, PhD

Research Visibility and Impact Consultant





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https://publons.com/researcher/1692944 http://scholar.google.com/citations



All of my presentations are available online at: https://figshare.com/authors/Nader_Ale_Ebrahim/100797

My recent publication:

- 1. A. Ghanbari Baghestan, H. Khaniki, A. Kalantari, M. Akhtari-Zavare, E. Farahmand, E. Tamam, N. Ale Ebrahim, H. Sabani, and M. Danaee, (2019) <u>"A Crisis in "Open Access": Should Communication</u> <u>Scholarly Outputs Take 77 Years to Become Open Access?</u>," *SAGE Open*, vol. 9, no. 3, pp. 1-8,
- Ale Ebrahim, S., Ashtari, A., Pedram, M. Z., & Ale Ebrahim, N. (2019). Publication Trends in Drug Delivery and Magnetic Nanoparticles. Nanoscale Research Letters, 14(59). doi: <u>https://doi.org/10.1186/s11671-019-2994-y</u>
- 3. Parnianifard, A., Azfanizam, A., Ariffin, M., Ismail, M., & Ale Ebrahim, N. (2019). Recent developments in metamodel based robust black-box simulation optimization: An overview. Decision Science Letters, 8(1), 17-44. doi:10.5267/j.dsl.2018.5.004. Available at SSRN: https://ssrn.com/abstract=3192794
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- Nordin, N., Samsudin, M.-A., Abdul-Khalid, S.-N., & Ale Ebrahim, N. (2019). Firms' sustainable practice research in developing countries: Mapping the cited literature by Bibliometric analysis approach. International Journal of Sustainable Strategic Management, 7(1/2). doi:. <u>https://doi.org/10.1504/IJSSM.2019.099036</u>

My recent presentations:

- 1. Ale Ebrahim, Nader (2019): Research Skills Session 1: Introduction. figshare. Presentation. <u>https://doi.org/10.6084/m9.figshare.9931163.v1</u>
- Ale Ebrahim, Nader (2019): Introduction to "Research Tools": Tools for Collecting, Writing, Publishing, and Improving Research Visibility. figshare. Presentation. <u>https://doi.org/10.6084/m9.figshare.8258957.v1</u>
- 3. Ale Ebrahim, Nader (2018): Publishing Procedure and Strategies to Improve Research Visibility and Impact. figshare. Presentation. <u>https://doi.org/10.6084/m9.figshare.7475036.v1</u>
- Ale Ebrahim, Nader (2018): Scientific Misconduct. figshare. Presentation. https://doi.org/10.6084/m9.figshare.7471988.v1
- 5. Ale Ebrahim, Nader (2018): Collecting, Writing, and Publishing via "Research Tools". figshare. Presentation. <u>https://doi.org/10.6084/m9.figshare.7472273.v1</u>

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- 2. <u>Creswell, J. W. (2012). Educational research: Planning, Conducting, and Evaluating</u> <u>Quantitative and Qualitative Research (4th ed. ed.). Boston: Pearson Education, Inc.</u>
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- Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(7): e1000097. doi:10.1371/journal.pmed1000097
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- Aria, M. & Cuccurullo, C. (2017). bibliometrix: An R-tool for comprehensive science mapping analysis, Journal of Informetrics, 11(4), pp 959-975, Elsevier, DOI: 10.1016/j.joi.2017.08.007