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LITERATURE REVIEWING WITH RESEARCH TOOLS

Part 1: Systematic Review

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[@aalebrahim](https://twitter.com/aalebrahim)



www.researcherid.com/rid/C-2414-2009

<http://scholar.google.com/citations>



16th May 2017



All of my presentations are available online at:

https://figshare.com/authors/Nader_Ale_Ebrahim/100797

Link to this presentation: <https://doi.org/10.6084/m9.figshare.4668232.v1> (Old version)

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Part 1: Systematic Review

Nader Ale Ebrahim, PhD

=====
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www.researcherid.com/rid/C-2414-2009
<http://scholar.google.com/citations>

Read more: Ale Ebrahim, N. (2013). Introduction to the Research Tools mind map. *Research World*, 10, Article A10.4. Retrieved from <https://ssrn.com/abstract=2280007>

Abstract

Abstract: “[Research Tools](#)” enable researchers to collect, organize, analyze, visualize and publicized research outputs. Dr. Nader has collected over 700 tools that enable students to follow the correct path in research and to ultimately produce high-quality research outputs with more accuracy and efficiency. It is assembled as an interactive Web-based mind map, titled “Research Tools”, which is updated periodically. “[Research Tools](#)” consists of a hierarchical set of nodes. It has four main nodes: (1) Searching the literature, (2) Writing a paper, (3) Targeting suitable journals, and (4) Enhancing visibility and impact of the research. In this workshop some tools as an example from the part 1 ([Searching the literature](#)) will be described. The e-skills learned from the workshop are useful across various research disciplines and research institutions.

Keywords: Literature Review, Improve citation, Research impact, Open access, h-index, Research Visibility, Bibliometrics, Systematic literature review

Workshop Series :

Strategies to Enhance Research Visibility, Impact & Citations

Boosting your Research Visibility

Do you know "Over 43% of ISI papers have never ever received any citations?" (nature.com/top100_2014). Publishing a high quality paper in scientific journals is only halfway towards receiving citation in the future. The rest of the journey is dependent on disseminating the publications via proper utilization of the "[Research Tools](#)". Proper tools allow the researchers to increase the research impact and citations for their publications. This workshop series will provide you various techniques on how you can increase the visibility and hence the impact of your research work.

Who should attend?

The workshop is for professors, lecturers, and researchers who have published papers and would like to increase their papers' visibility and citation index. The workshop is applicable for various research disciplines. This workshop series is for UM Staff and UM students only.

Workshop Details & Registration

Speaker: **Dr. Nader Ale Ebrahim, PhD (Research Fellow)**
Dr. Bong Yii Bonn, PhD (Research Manager)

Venue: **Computer Lab, Level 2, Institute of Research Management & Services (IPPP)**
Research Management & Innovation Complex, University of Malaya

Organizer: **Centre for research Services (PPP), IPPP, University of Malaya**

Time & Date: **Kindly refer page 2 of the brochure**

Fees: **RM 10.00 per Session / Topic**
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WORKSHOP SERIES 5

DATE	TIME	TOPIC
19 April 2017	9.00 a.m. – 12.00 p.m.	Improving Research Visibility Part 1: Search Engine Optimization
26 April 2017	9.00a.m. – 12.00 p.m.	Improving Research Visibility Part 2: Pre/Post Prints Preparation
3 May 2017	9.00a.m. – 12.00 p.m.	Improving Research Visibility Part 3: Online Profiles
17 May 2017	9.00a.m. – 12.00 p.m.	Improving Research Visibility Part 4: Open Access Repositories
24 May 2017	9.00a.m. – 12.00 p.m.	Improving Research Visibility Part 5: Blogging and Online Magazines
31 May 2017	9.00a.m. – 12.00 p.m.	Improving Research Visibility Part 6: Academic Social Networking
7 June 2017	9.00a.m. – 12.00 p.m.	Improving Research Visibility Part 7: Measuring Research Impact

CONTACT US

For further enquiries kindly contact us at:

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 Institute of Research Management & Services (IPPP)
 Level 2, Research Management & Innovation Complex, University of Malaya (UM)
 Tel: 03-7967 8289 / 8542
 Fax: 03-7967 8290
 Email: ppp_workshop@um.edu.my
 Website: <http://umconference.um.edu.my/ws>
<http://umresearch.um.edu.my>

Top 10 authors with the highest profile view counts on ResearchGate

Table 11. Top 10 authors with the highest profile view counts on ResearchGate (9th of November, 2015), compared to the same indicator on the 10th of September, 2015.

AUTHOR NAME	SEPTEMBER 10 th	NOVEMBER 9 th	MISMATCH (%)
	(2015) PROFILE VIEWS	(2015) PROFILE VIEW	
Nader Ale Ebrahim	19,821	13,281	67.00
Chaomei Chen	7,760	3,937	50.73
Loet Leydesdorff	4,227	1,758	41.59
Bakthavachalam Elango	2,883	1,756	60.91
Zaida Chinchilla	5,840	1,569	26.87
Mike Thelwall	4,297	1,568	36.49
Lutz Bornmann	3,129	1,439	45.99
Wolfgang Glänzel	3,012	1,301	43.19
Kevin Boyack	3,256	1,135	34.86
Peter Ingwersen	2,335	1,025	43.90

Source: Martín-Martín, A., Orduna-Malea, E., Ayllón, J. M., & López-Cózar, E. D. (2016). The counting house, measuring those who count: Presence of Bibliometrics, Scientometrics, Informetrics, Webometrics and Altmetrics in Google Scholar Citations, ResearcherID, ResearchGate, Mendeley, & Twitter. *EC3 Reseach Group: Evaluación de la Ciencia y de la Comunicación Científica Universidad de Granada and Universidad Politécnica de Valencia (Spain), In Progress*,. doi:10.13140/RG.2.1.4814.4402

JANUARY 2017 TOP 100 TECHNOLOGY EXPERTS TO FOLLOW ON TWITTER

Forbes

THE GLOBE AND MAIL

FOX Inc.

Mashable

The New York Times

WALL STREET JOURNAL

CONGRATS! YOU MADE THE TOP 100



TECHNOLOGY EXPERTS TO FOLLOW FOR JANUARY 2017.

EVANCARMICHAEL.COM 



#11) [@aleebrahim](#) - Nader Ale Ebrahim (Up from #19)



#12) [@wpengine](#) - WP Engine



#13) [@wintelkiller](#) - wintelkiller (Down from #11)



#14) [@infoworld](#) - InfoWorld (Up from #16)



#15) [@ashrafkanjo](#) - Ashraf Kanjo (Down from #13)

Nader Ale Ebrahim



Outline

No.	Topic
Day 1:	
1	What is a literature review
2	Some questions that the review of literature can answer
3	<u>Systematic Review</u>
4	Checklist for reading a review paper
5	Narrow the area of research
6	Review biases
7	Identifying a Research Problem
8	Developing a search strategy, Finding keyword
9	Introduce “Research Tools” Box
10	Selecting keywords
11	Finding proper articles



What is the Altmetric donut?

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 » View Article

Article


Scientometrics

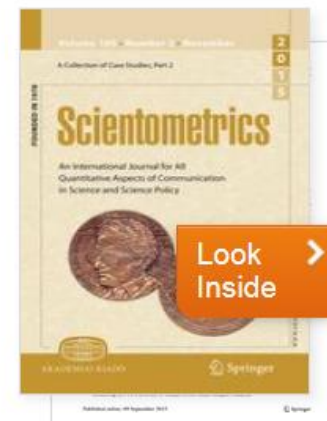
November 2015, Volume 105, Issue 2, pp 759-771

First online: 09 September 2015

[Open Access](#)

Qualitative and quantitative analysis of solar hydrogen generation literature from 2001 to 2014

Mohammad Reza Maghami , Shahin navabi asl, Mohammad esmaeil Rezadad, Nader Ale



What is the average number of references for writing an article or review paper in “Economics”?

Web of Science™

InCites™

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Help

English

InCites™ Journal Citation Reports®



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Home

Category Rankings

Category Profile



Aggregate Source Data (i)

	Citable Items			Other
	Article	Review	Combine	
Number in JCR Year 2014 (A)	17,133	172	17,305	6,140
Number of References (B)	693,044	12,010	705,054	8,620
Ratio (B/A)	40.5	69.8	40.7	1.4

AGGREGATE SOURCE DATA

Aggregate Source Data is included as a table, counting the number of citable items, and yielding a ratio to the number of references to each type of citable item included in that JCR Year.

Exercise

- Make a sentence including:

“the aim of study”

- Find a recent English thesis about:

“Virtual Teams”

Make a sentence including:

“the aim of study”

... Isfahan, Iran Background and Aims	The aim of study	was determination of the effect of ...
... postmortem macropathologic changes.	The aim of study	is to analyze the pathological data ...
... (NAC) are controversial.	The aim of study	is to compare histological grade and ...
... Federation Objectives and study:	the aim of study	was to compare the efficacy and ...
... Introduction and objectives:	The aim of study	was to evaluate the incidence of ...
... Istanbul, Turkey Objectives:	The aim of study	was to evaluate the effect of acid ...
... has been considered as a futile (1).	The aim of study	was obtaining information concerning ...
... Medical Academy Summary (4 lines):	The aim of study	is to estimate diagnostic values of ...
... medicine, RAKUS, Riga, Latvia	The aim of study	was to compare the effectiveness of ...

Recent English thesis about: “Virtual Teams”

Open Access Theses and Dissertations

Search keywords from titles, author names, abstracts, subjects...

[Advanced search options](#)

Sorted by: relevance · author · university · date | [New search](#)

[Search history](#)

You searched for `title: (virtual AND teams) AND language: (en OR eng OR english) AND pub_dt: [2010-01-01T00:00:00Z TO +]`. Showing records 1 – 30 of 50 total matches.

< [1] [2] >

Search Limiters
Last 2 Years English Only
Country
US (13)
South Africa (10)

1. Hakonen, Marko. *Identification with virtual teams.*

Degree: 2010, Aalto-yliopiston teknillinen korkeakoulu

URL: <https://aaltodoc.aalto.fi/handle/123456789/4756> 


- ▶ Virtual teams, that is groups of people striving toward a common goal, dispersed across many locations, and communicating with each other predominantly via information and... [\(more\)](#)

Subjects/Keywords: Psychology; Work; virtual teams; social identification; perceived justice

[Record Details](#) [Similar Records](#) [Cite](#) [Share](#) >

2. Creutz, Martin. *Virtual Teams.*

Degree: 2011, Jönköping University

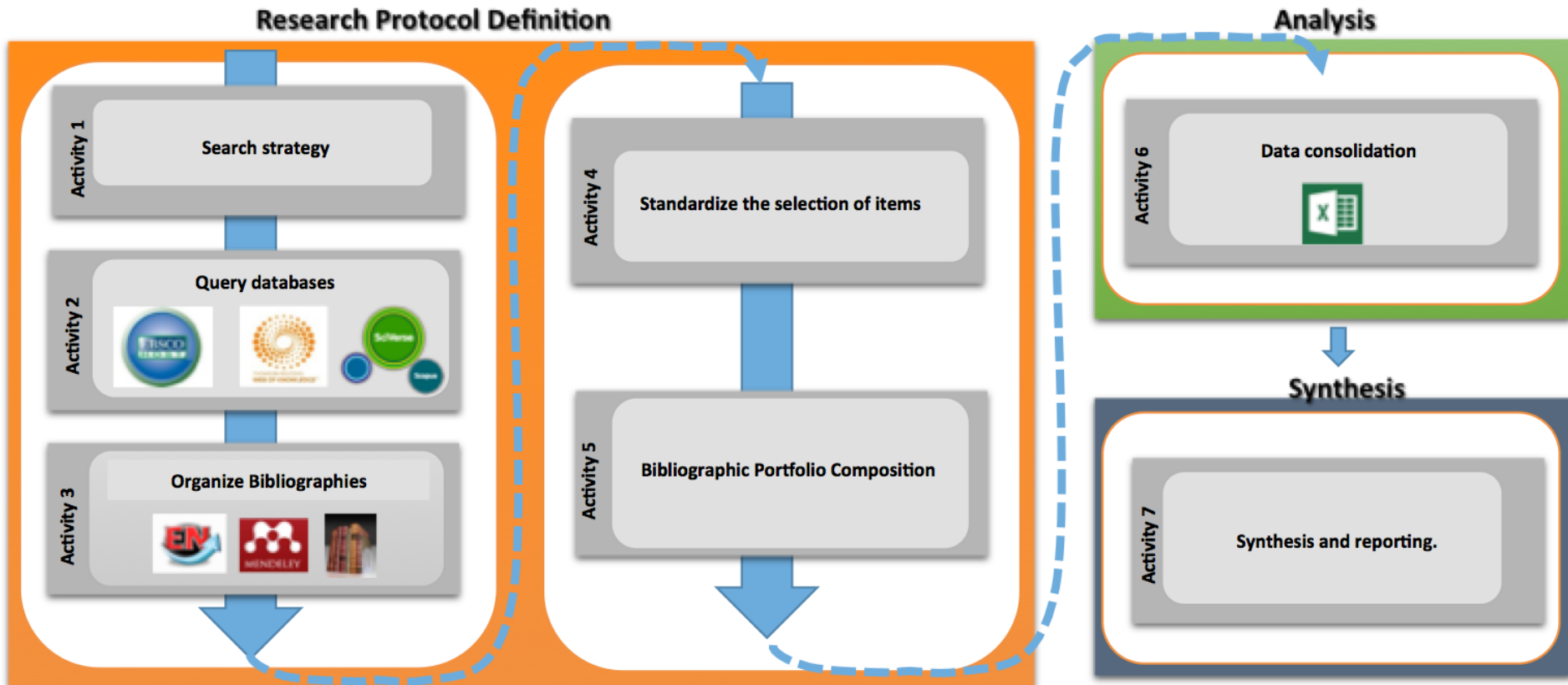
URL: <http://urn.kb.se/resolve?urn=urn:nbn:se:hj:diva-16206> 

Subjects/Keywords: Natural Sciences; Computer and Information Science; Human Computer Interaction; Naturvetenskap; Data- och informationsvetenskap; Människa-datorinteraktion (interaktionsdesign); teknik; Technology; IHH, Informatik; IHH, Informatics

[Record Details](#) [Similar Records](#) [Cite](#) [Share](#) >

3. ROBINSON, JOY D. *COMMUNICATION, LEADERSHIP, AND VIRTUAL TEAMS.*

Systematic Review and Bibliometrics: A Step-by-step Guide

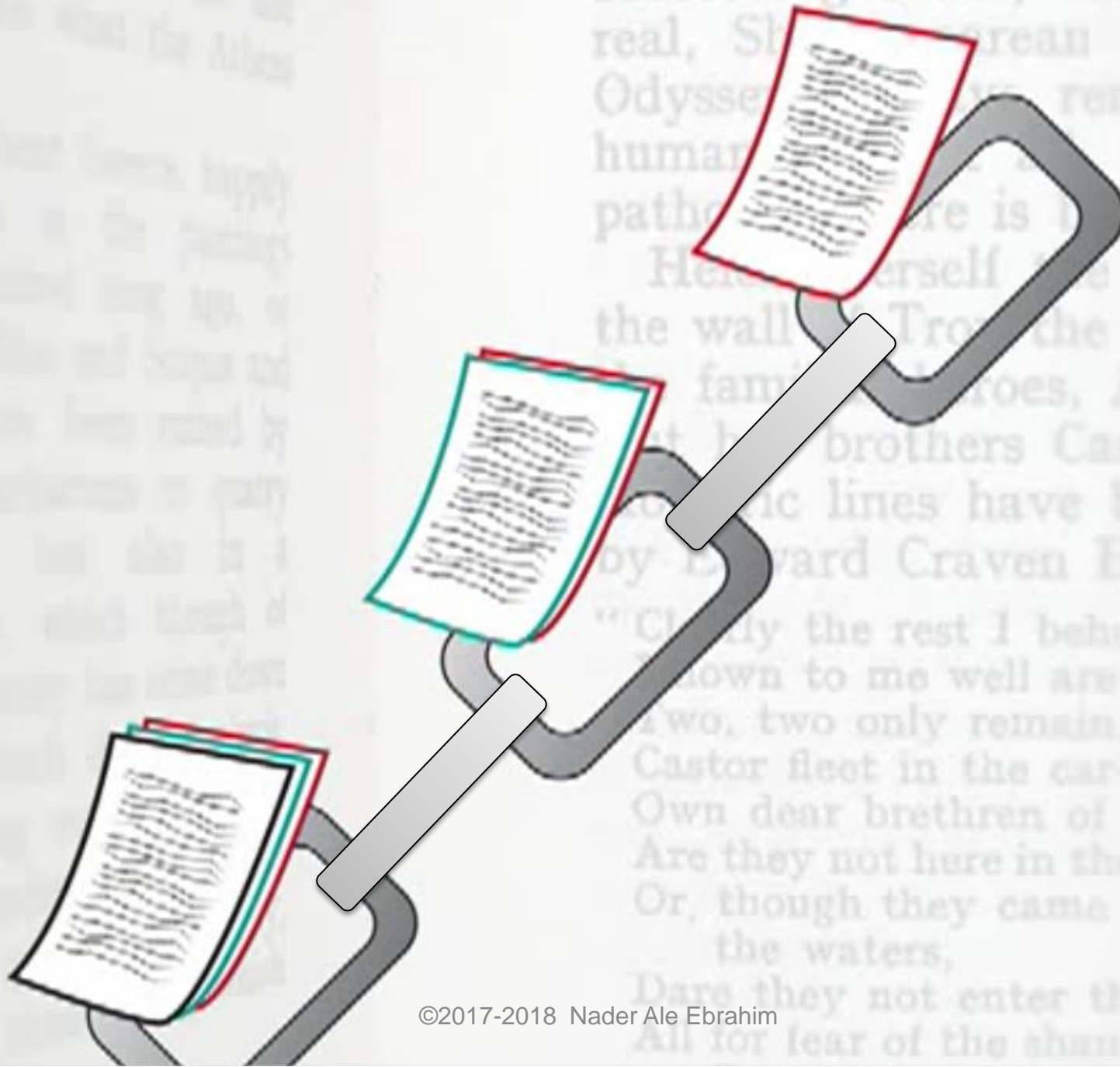


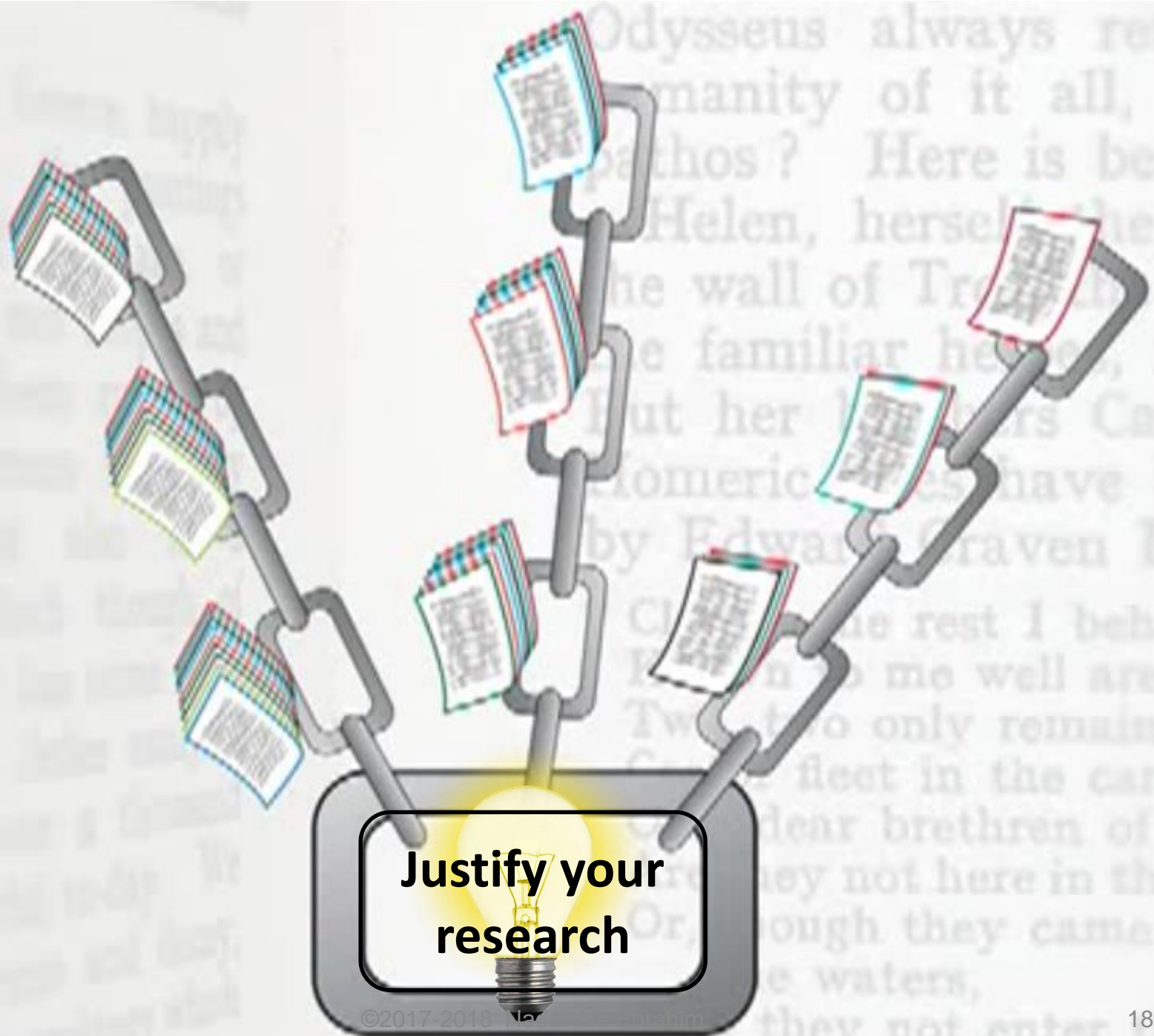
Source: Ferenhof, H. A., & Fernandes, R. F. (2016). *Systematic Review and Bibliometrics: A Step-by-step Guide*. Retrieved from <http://diva-portal.org/smash/get/diva2:768099/FULLTEXT01>

What is a Literature Review?

Novice researchers tend to approach the literature review as nothing more than a collection of summaries of papers or an elaborated annotated bibliography of multiple research manuscripts (Webster & Watson, 2002). A meaningful literature review is much more:

- The use of ideas in the literature to justify the particular approach to the topic, the selection of methods, and demonstration that this research contributes something new
- Quality means appropriate breadth and depth, rigor and consistency, clarity and brevity, and effective analysis and synthesis
- Explain how one piece of research builds on another
- Creates a firm foundation for advancing knowledge
- It facilitates theory development, closes areas where a plethora of research exists, and uncovers areas where research is needed
- demonstrate that the proposed research contributes something new to the overall body of knowledge or advances the research field's knowledge-base





The literature review

A literature review ensures that you are at least familiar with the body of research in your field before starting your own investigations. Writing a literature review also provides practice in critical thinking. Once you have applied critical thinking skills to the findings of past researchers, you are in a better position to apply these same skills to your own work.

UNE. 2009. The literature review [Online]. University of New England. Available: <http://www.une.edu.au/library/eskillsplus/literature/litreview.php> [Accessed 25 January 2010].

6 critical questions

things to think about when someone has something to say

who

Who said it?

Someone you know? Someone famous?
Someone in authority?
Should it matter who said it?

what

What did they say?

Did they give facts or opinions?
Did they give all the facts?
Did they leave something out?

where

Where did they say it?

Was it in public or in private?
Did other people have a chance to talk about the other side?

when

When did they say it?

Before, after, or during an important event?

why

Why did they say it?

Did they explain their opinions?
Were they trying to make someone look good or bad?

how

How did they say it?

Were they happy, sad, angry, or didn't care? Did they write it or speak it?
Could you understand it?

Critical reading

Critical reading is the process of reading that goes beyond just understanding a text. Critical reading involves:

- Carefully considering and evaluating the reading
- Identifying the reading's strengths and implications
- Identifying the reading's weaknesses and flaws
- Looking at the 'big picture' and deciding how the reading fits into the greater academic context (the understandings presented in other books and articles on this topic)

Critical reading

Critical reading often involves asking questions about the reading. In particular, you are examining the strengths and weaknesses of the reading's argument. To do this, you need to consider:

- the reading's background
- its purpose and overall conclusion (claim)
- the evidence used in the reading
- the logical connections between the claim and the evidence
- the reading's balance
- its limitations
- how it relates to other sources and research
- if the reading is based on research, how this research was conducted

Systematic Review 1/2

- A systematic literature review is a means of identifying, evaluating and interpreting all available research relevant to a particular research question, or topic area, or phenomenon of interest. Individual studies contributing to a systematic review are called *primary studies*; a systematic review is a form a secondary study.

Systematic Review 2/2

- A **systematic review** is a literature review focused on a research question that tries to identify, appraise, select and synthesize all high quality research evidence relevant to that question.

Source: http://en.wikipedia.org/wiki/Systematic_review

- [A Guide to Writing the Dissertation Literature Review](#)

Reasons for Performing Systematic Reviews

- **To summarise** the existing evidence concerning a treatment or technology e.g. to summarise the empirical evidence of the benefits and limitations of a specific agile method.
- **To identify any gaps** in current research in order to suggest areas for further investigation.
- **To provide a framework/background** in order to appropriately position new research activities.

However, systematic reviews can also be undertaken to examine the extent to which empirical evidence supports/contradicts theoretical hypotheses, or even to assist the generation of new hypotheses

The Systematic Review Process



Source: Adapted from Kitchenham, B. (2004). [Procedures for performing systematic reviews](#). Keele, UK, Keele University, 33(2004), 1-26.

Planning the review

1. Identification of the need for a review
2. Development of a review protocol. (The most important activity during protocol is to formulate the research question.)



Conducting the review

1. Identification of research
2. Selection of primary studies
3. Study quality assessment
4. Data extraction & monitoring
5. Data synthesis.



**Conducting the
review**

Reporting the review

*Reporting the review
is a single stage
phase.*



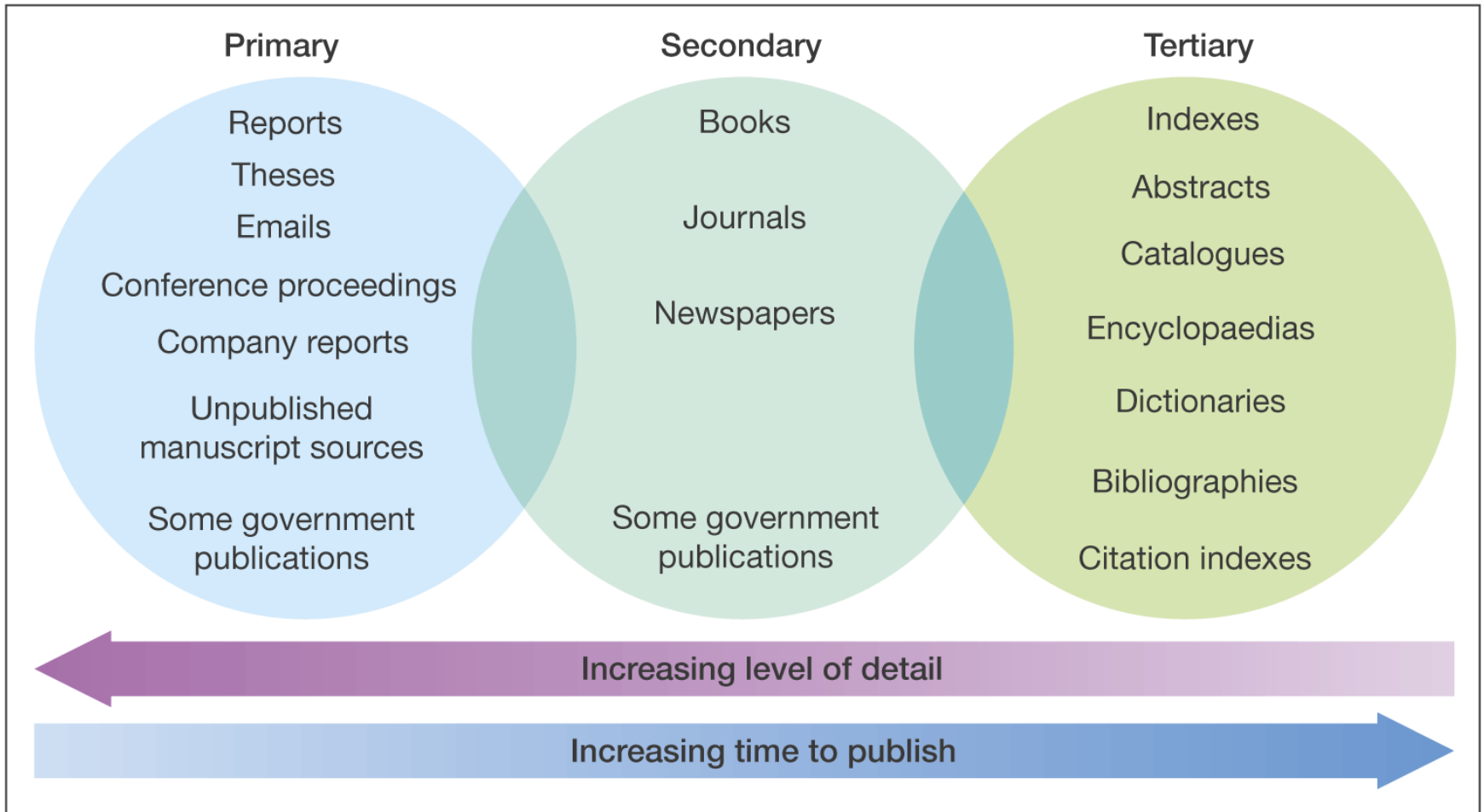
Reporting the
review

Checklist for reading a review paper

- What are the review's objectives?
- What sources were searched to identify primary studies? Were there any restrictions?
- What were the inclusion/exclusion criteria and how were they applied?
- What criteria were used to assess the quality of primary studies and how were they applied?
- How were the data extracted from the primary studies?
- How were the data synthesised? How were differences between studies investigated? How were the data combined? Was it reasonable to combine the studies? Do the conclusions flow from the evidence?

Checklist for reading a review paper-From a more general viewpoint

- Can you find an important question, which the review addressed?
- Was a thorough search done of the appropriate databases and were other potentially important sources explored?
- Was methodological quality assessed and the trials weighted accordingly?
- How sensitive are the results to the way that the review has been done?
- Have numerical results been interpreted with common sense and due regard to the broader aspects of the problem?

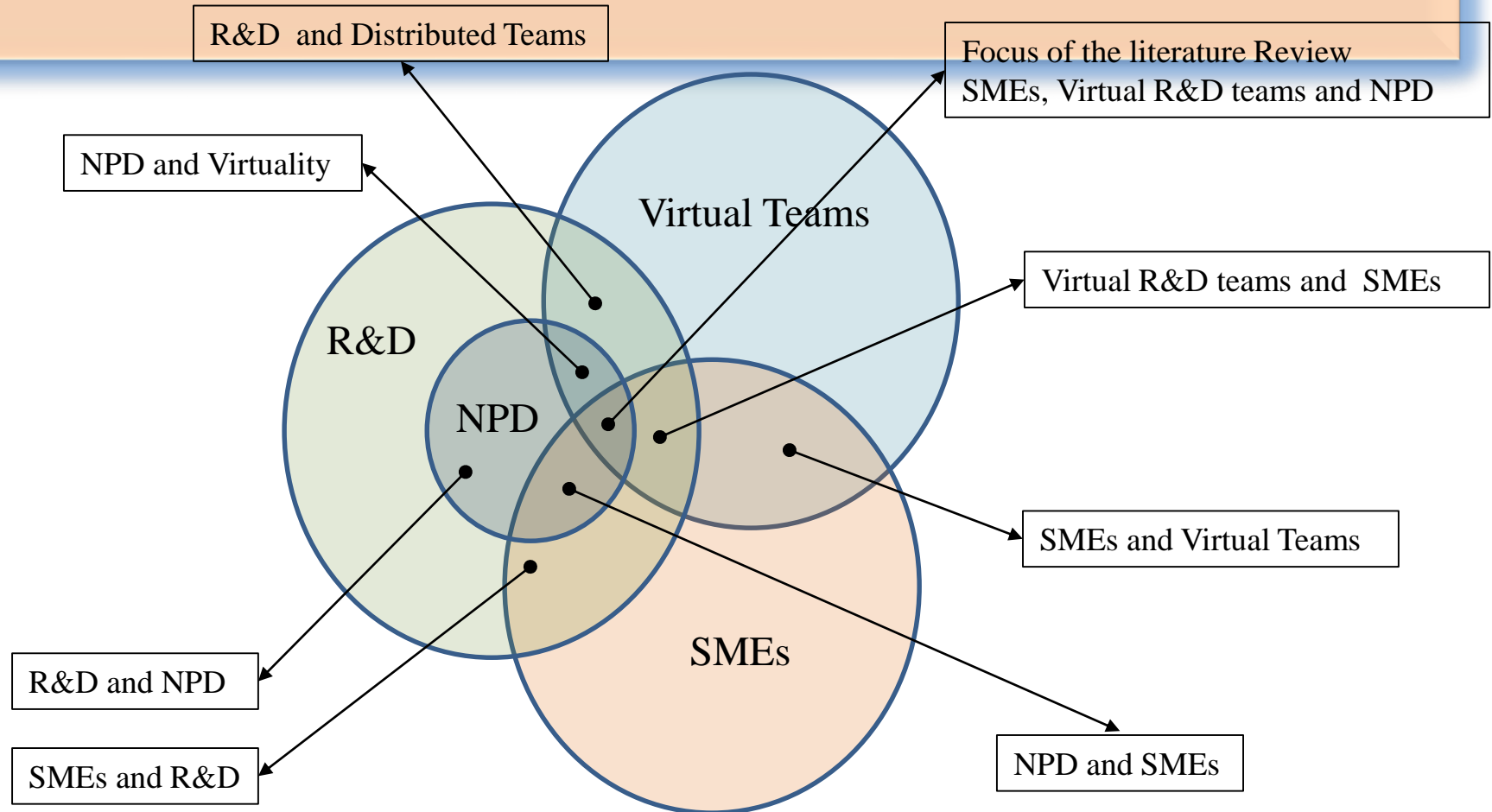


Literature sources available

Source: [Research methods for business students](#) / Mark Saunders, Philip Lewis, Adrian Thornhill. —5th ed.

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Narrow down the area of research

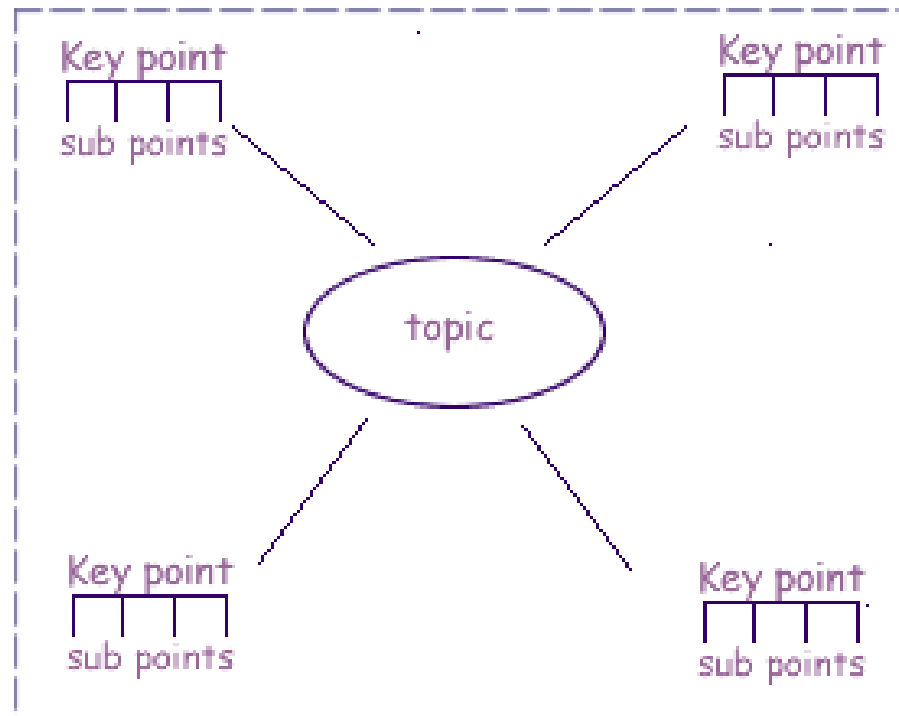


Ale Ebrahim, N., Ahmed, S., & Taha, Z. (2009). [Virtual R & D teams in small and medium enterprises: A literature review](#). [Review]. Scientific Research and Essay, 4(13), 1575–1590.

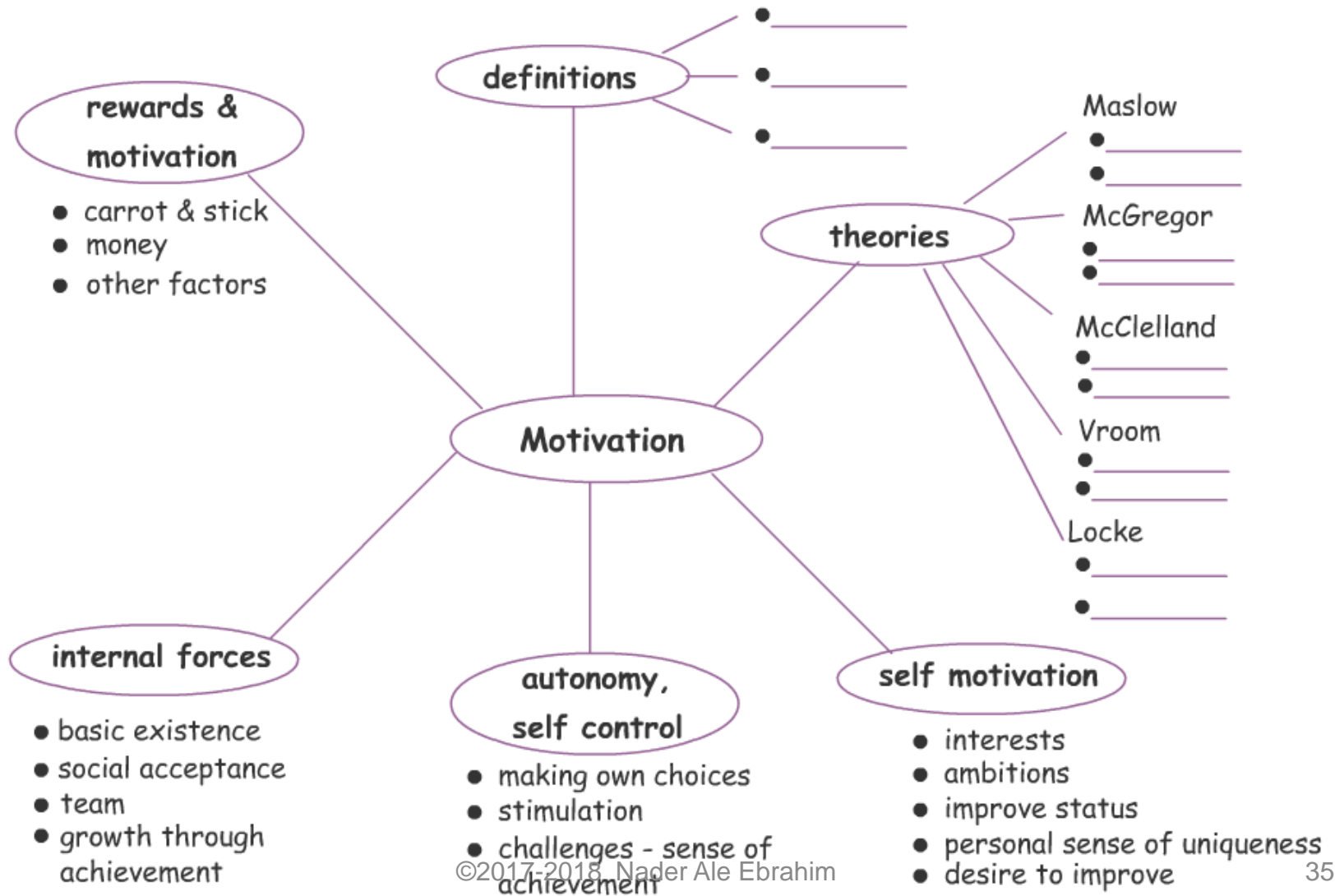
Structure & planning your writing - MindMaps

MindMaps are a visual map to link and organise key concepts of your research. They also show links and relationships between ideas. Sometimes it is a good idea to number key ideas in the order that you are going to place them in your literature review.

Example

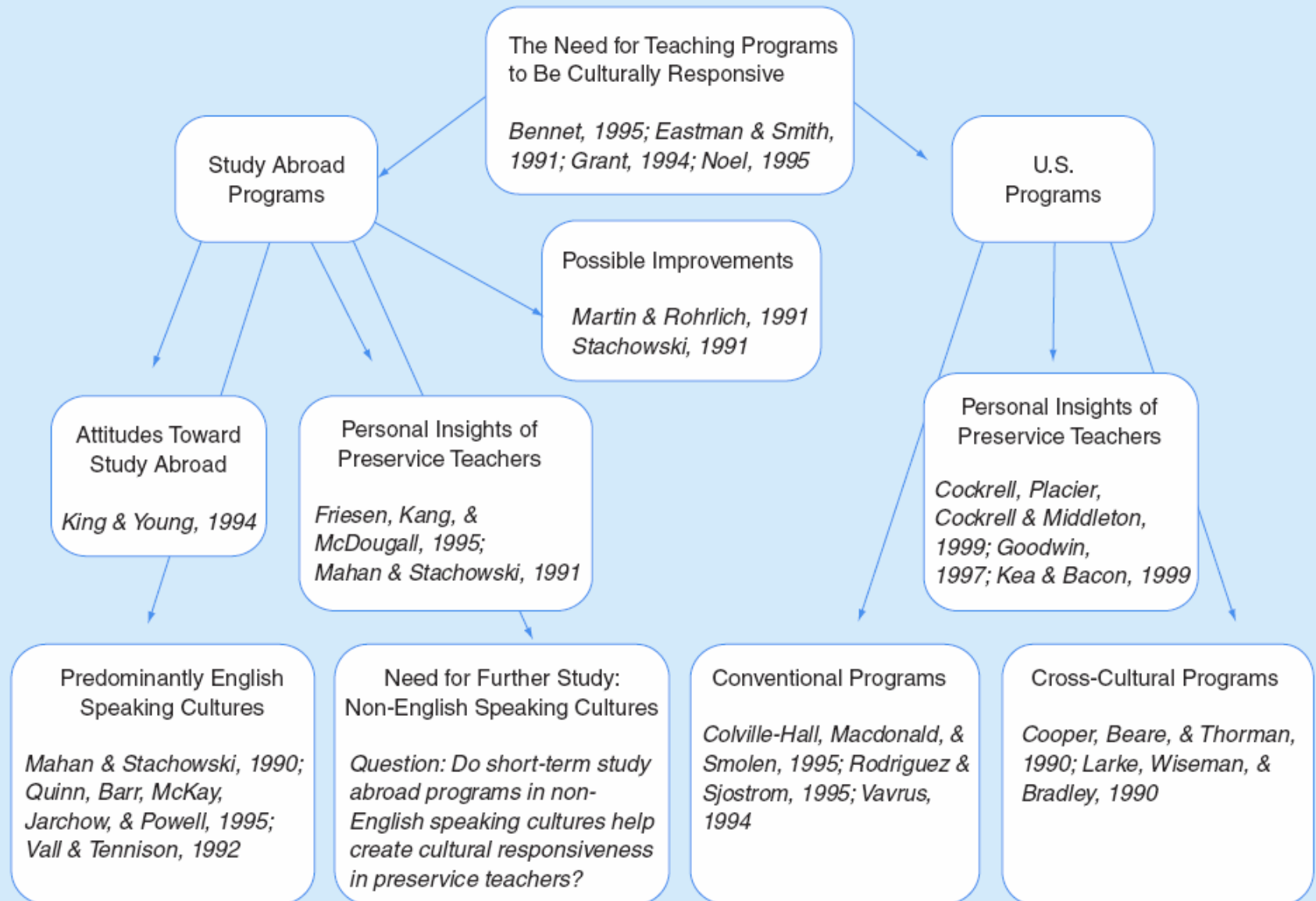


Example of a MindMap



A Literature Map, Hierarchical Design

Literature Map



A Literature Map, Circular Design

Need for Further Study:

Non-English Speaking Cultures

Question: "Do short-term study abroad programs in non-English speaking cultures help create cultural responsiveness in preservice teachers?"

Study Abroad Programs

Personal Insights of Preservice Teachers (Friesen, Kang, & McDougall, 1995)

Attitudes Toward Study Abroad (King & Young, 1994)

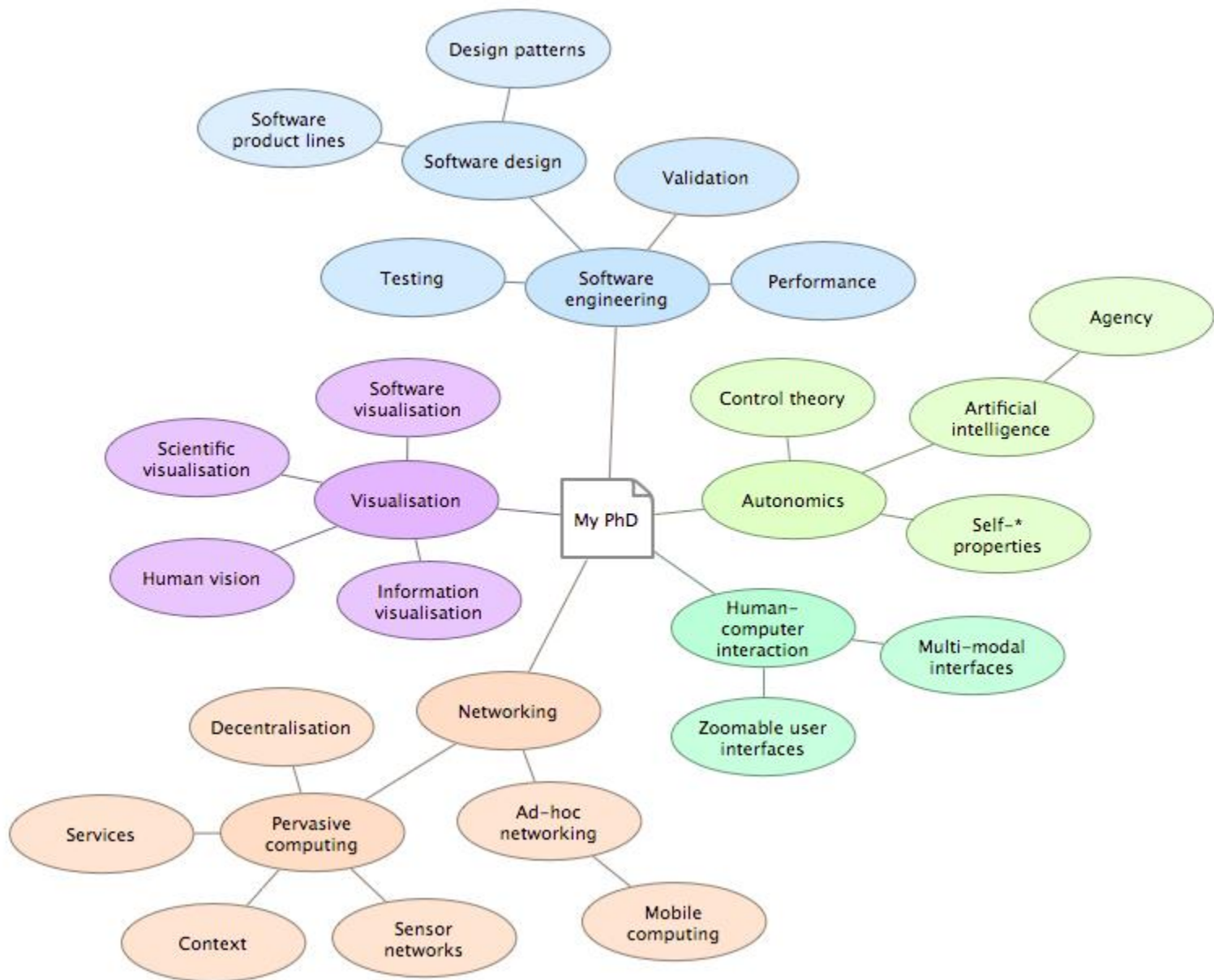
Predominantly English Speaking Cultures (Mahan & Stachowski, 1990)

U.S. Programs

Personal Insights of Preservice Teachers (Cockrell, Placier, Cockrell, & Milleton, 1999)

Conventional Programs (Colville-Hall, Macdonald, & Smolen, 1995)

Cross-Cultural Programs (Cooper, Beare, & Thorman, 1990)



Source: Ross' PhD Literature Review Mind Map

Review biases

- Read outdated version of a paper/book
- Reading but not writing
- Read unlinked papers (detect as much of the relevant literature as possible)
- Read before planning (defining a review protocol that specifies the research question being addressed)
- Start reading with few resources
- Language bias
- Publication bias
- Read everything
- Not keeping bibliographical information

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.

[Reference: Creswell, J. W. \(2012\). *Educational research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research* \(4th ed. ed.\). Boston: Pearson Education, Inc.](#)

Reviewing the Literature

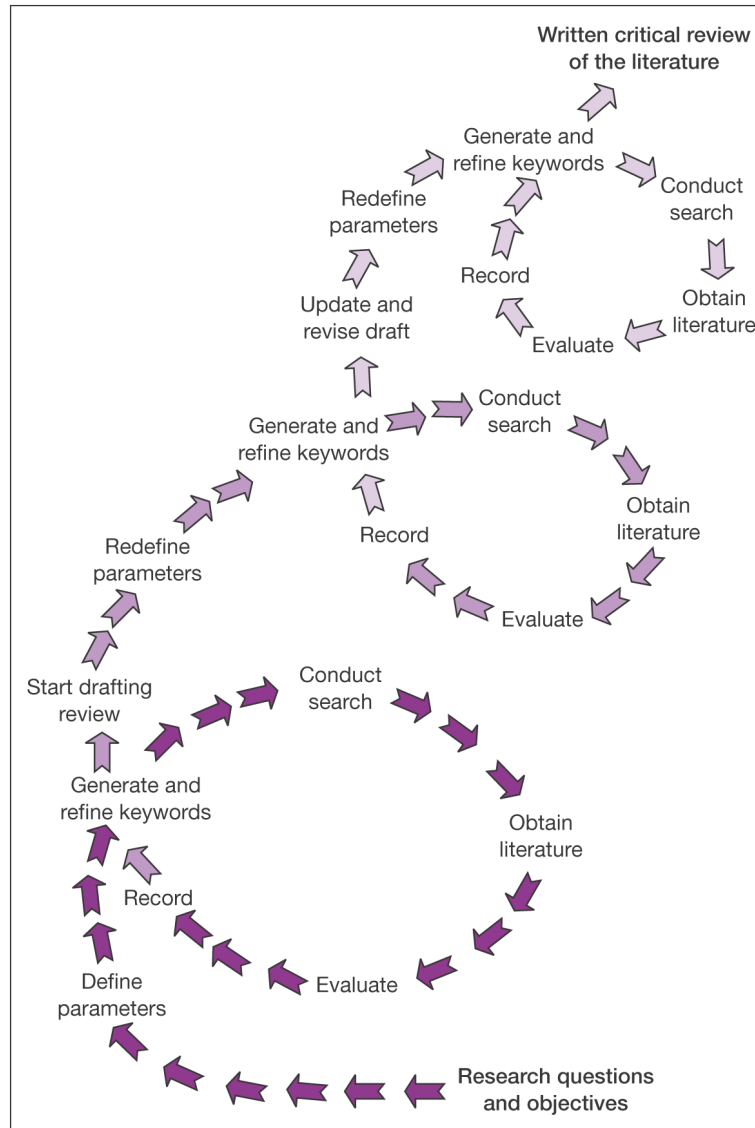
With so much information available, searching and locating good literature on your topic can be challenging. Five steps will provide a sense of how researchers proceed in reviewing the literature are:

- 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.***

[Reference: Creswell, J. W. \(2012\). *Educational research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research* \(4th ed. ed.\). Boston: Pearson Education, Inc.](#)



Developing a search strategy,
Finding keyword



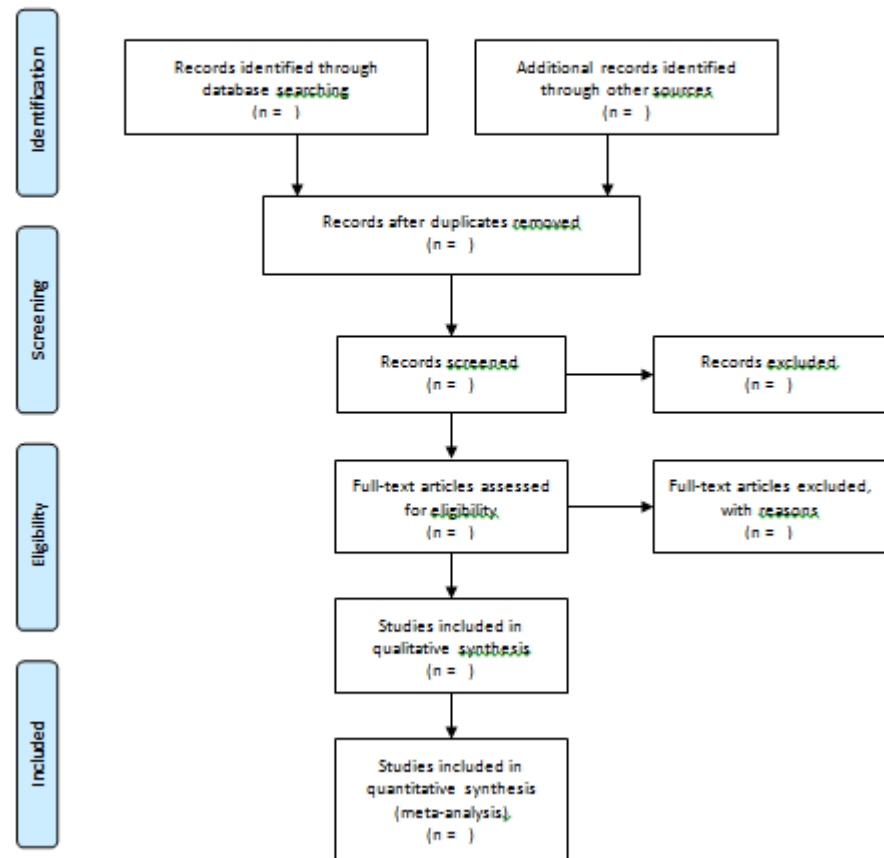
The literature review process

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

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



PRISMA 2009 Flow Diagram



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 www.prisma-statement.org.

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

- » Defining the topic
- » 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

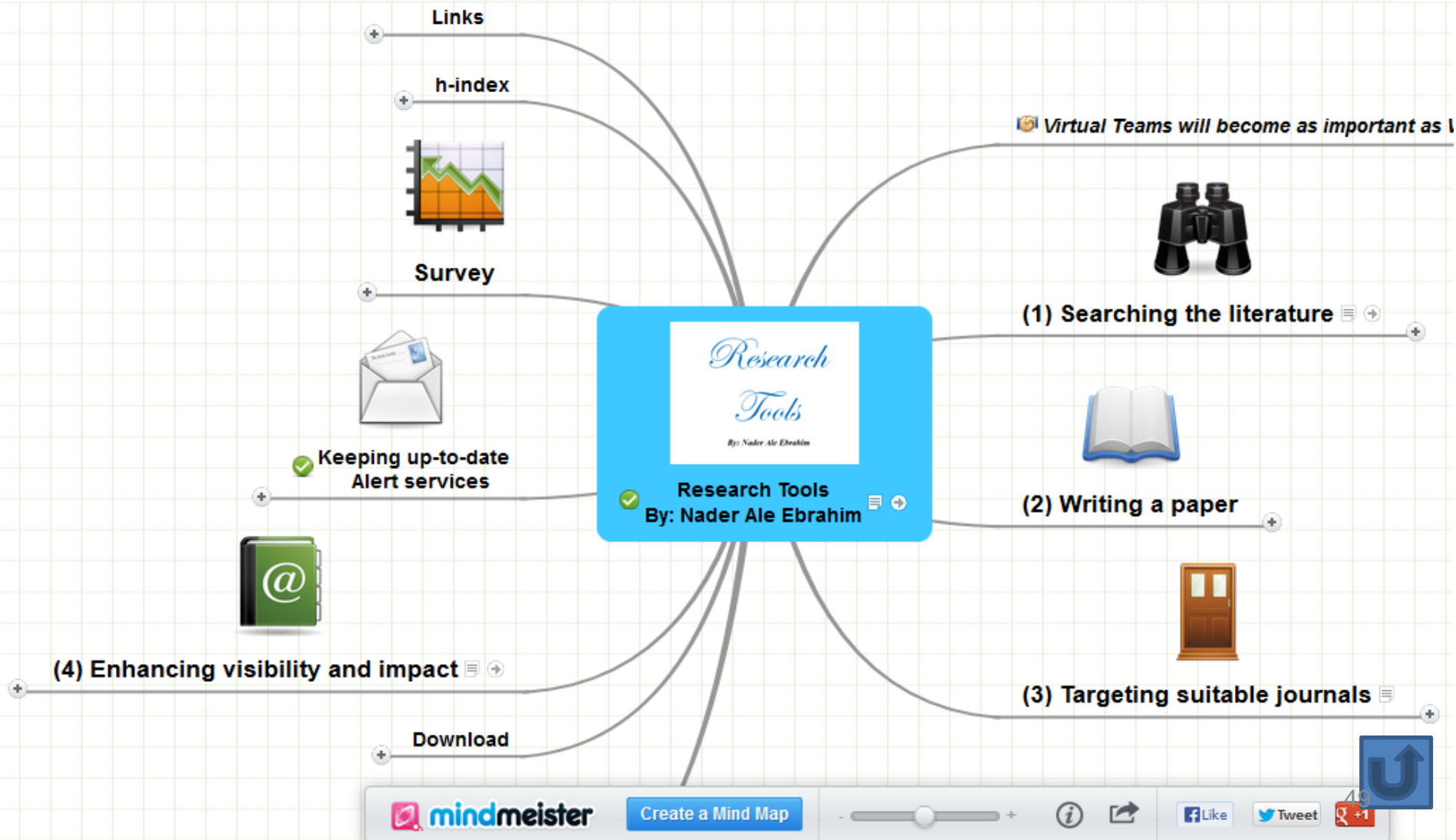
Finding too little information may indicate that you need to broaden your topic.

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



Keywords

Selecting keywords lead to get more citation.



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	environmental impact
architectural design	epistemology
artificial evolution	evaluation
automotive design	expert systems
built environment	facility programming
case based reasoning	generic design
case study/studies	graphic design
collaborative design	

MASTER KEYWORDS
LIST
Journal of International Business
Studies

Google Trends



[MeSH \(Medical Subject Headings\)](#)

Master Keywords List

The screenshot displays the website for the Journal of International Business Studies. At the top, the Palgrave Macmillan logo is on the left, and the journal title is in the center. On the right, there are links for Institutional Registration, Personal Registration, and Subscribe, along with Admin Login, My account, and E-alert sign up. Below this is a navigation bar with Site Map, Subject Areas, and a search box. A banner for the Mastercard Finance, Payments & E-commerce Chair Vacancy is visible. The main content area is titled 'Journal home > Master list of keywords' and features a 'MASTER KEYWORDS LIST' section. This section includes a list of categories: Research methods, Theories, and Topics. A paragraph explains that the list is split into these three categories and advises users to choose at least one keyword from each. A 'RESEARCH METHODS' sub-section is highlighted with a blue bar and a 'Top' link. Under 'RESEARCH METHODS', there are two sub-sections: 'Data Source' and 'Research Design'. 'Data Source' lists 'Primary' and 'Secondary'. 'Research Design' lists 'Comparative Thinking', 'Construct Development and Evaluation', 'Cross-Cultural Experiments', 'Cross-Cultural Research/Measurement Issues', 'Econometrics', and 'Equivalency'. On the right side of the page, there are several utility links: 'Sign up for e-alerts', 'Recommend this publication to your library', 'Receive RSS Web feeds', and 'Follow us on Twitter'. Below these is the logo for the Academy of International Business (AIB). At the bottom right, there are sections for 'JIBS/AIB Services' (including AIB member log-in and Adopt a Library), 'AIB resources' (including AIB home and Book reviews), and 'Partners' (including Academy of International Business).

Journal home > Master list of keywords

MASTER KEYWORDS LIST

- [Research methods](#)
- [Theories](#)
- [Topics](#)

The master keyword list is split into 3 main categories: research methods, theories, and topics. When choosing your keywords, please try to choose at least one keyword from each category.

RESEARCH METHODS [Top](#)

Data Source

- Primary
- Secondary

Research Design

- Comparative Thinking
- Construct Development and Evaluation
- Cross-Cultural Experiments
- Cross-Cultural Research/Measurement Issues
- Econometrics
- Equivalency

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AIB resources

- [AIB home](#)
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MeSH Tree Structures for “Genes”

MeSH Tree Structures

[Genetic Phenomena \[G05\]](#)

[Genetic Structures \[G05.360\]](#)

[Genome \[G05.360.340\]](#)

[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 \[G05.360.340.024.340.340\]](#)

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>

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 [database](#)) 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): GodnicCvar 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, 1986, 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, P836, 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
 MEZSNAR B, 1989, P148, 14 INT C EUR AC ALL
 REVSBECH P, 1990, V45, P204, ALLERGY
 SHELDON JM, 1957, P507, MANUAL CLIN ALLERGY
 SMID T, 1994, V25, P877, AM J IND MED
 VIDAL C, 1995, V75, P121, ANN ALLERG ASTHMA

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

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
 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 OCCURRING TITLE WORDS

ATOPIC-DERMATITIS PATIENTS
 LUNG-FUNCTION
 GRAIN DUST
 OCCUPATIONAL ASTHMA
 MITE ALLERGY

STORAGE MITE
 EXPOSURE
 HYPERSENSITIVITY
 SYMPTOMS
 DISEASE

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

Key Words 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.

Key Words 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 “disc” or “discs” or “discectomy.”

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](#)

Web of ScienceSM

Results Topic=("virtual Teams")
Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.
Lemmatization=On

Scientific WebPlus^{BETA} View Web Results >>

Note: Alternative forms of your search term (for example, tooth and teeth) may have been applied, in particular for Topic or Title searches that do not contain quotation marks around the terms. To find only exact matches for your terms, turn off the "Lemmatization" option on the search page.

Results: **741** Page 1 of 75 Go Sort by: Publication Date -- newest to oldest

Refine Results
Search within results for
 Search
Web of Science Categories Refine
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 COMPUTER SCIENCE INFORMATION SYSTEMS (183)
 INFORMATION SCIENCE LIBRARY SCIENCE (122)
 BUSINESS (96)

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more options Analyze Results Create Citation Report

1. Title: **Factors of collaborative working: A framework for a collaboration model**
Author(s): Patel Harshada; Pettitt Michael; Wilson John R.
Source: APPLIED ERGONOMICS Volume: 43 Issue: 1 Pages: 1-26 DOI: 10.1016/j.apergo.2011.04.009 Published: JAN 2012
Times Cited: 0 (from Web of Science)
Full Text [View abstract]
2. Title: **Technology Adoption in Online Social Networks**
Author(s): Peng Gang; Mu Jifeng
Source: JOURNAL OF PRODUCT INNOVATION MANAGEMENT Volume: 28 Supplement: 1 Pages: 133-145 DOI:

Web of ScienceSM

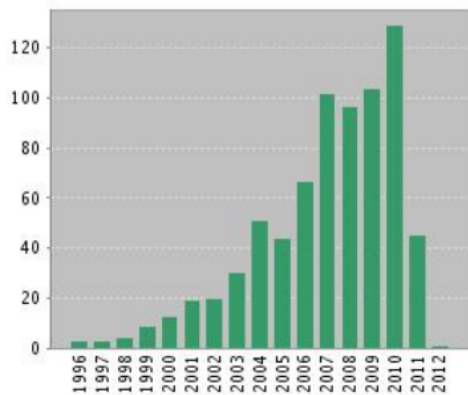
<< Back to previous results list

Citation Report Topic=("virtual Teams")

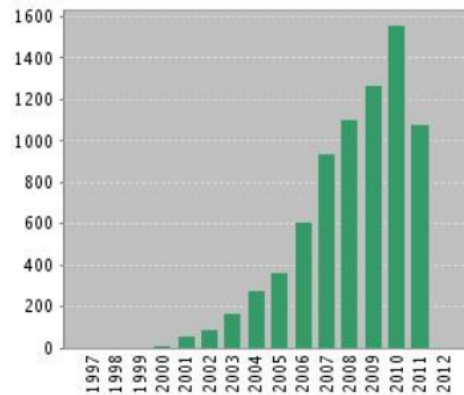
Timespan=All Years. Databases=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH.

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Results found:	741
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Sum of Times Cited without self-citations [?]:	4771
Citing Articles [?]:	3928
View Citing Articles View without self-citations	
Average Citations per Item [?]:	10.20
h-index [?]:	42

Results: 741

Page 1 of 75 Go

Sort by: Times Cited -- highest to lowest

2008 2009 2010 2011 2012 Total Average



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| <input checked="" type="checkbox"/> Year | <input checked="" type="checkbox"/> PubMed ID | <input checked="" type="checkbox"/> Index Keywords | <input type="checkbox"/> Sponsor | <input type="checkbox"/> Conference information |
| <input checked="" type="checkbox"/> EID | <input checked="" type="checkbox"/> Publisher | | <input type="checkbox"/> Funding text | <input type="checkbox"/> Include references |
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3 The Evolution of Current Research Impact Metrics: From Bibliometrics to Butler, J.S., Kaye, I.D., 2017 Clinical Spine Surgery 0

SciVal

Keyphrase analysis

2011 to >2016




no subject area filter selected



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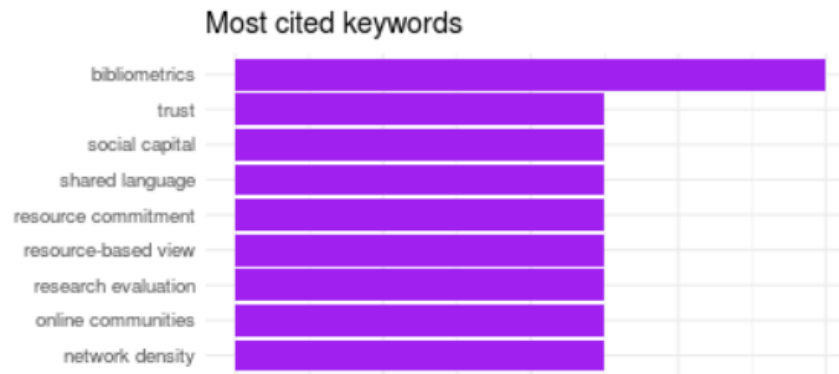
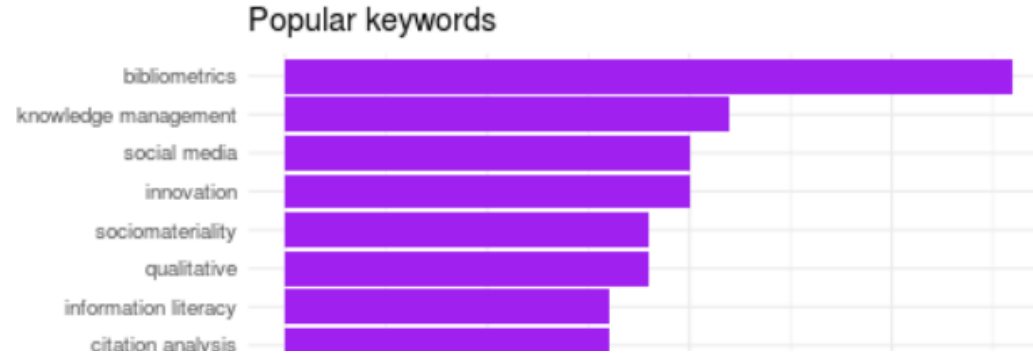
AAA relevance of keyphrase | declining  growing (2011-2015)

[> Analyze in more detail](#)

Network Analysis Interface for Literature Studies (NAILS project)

Important keywords

Sorted by the number of articles where the keyword is mentioned and by the total number of citations for the keyword.



Source: <http://nailsproject.net/> & <http://hammer.nailsproject.net/analyses/new>

Task for first session

1. Draw the literature map

2. Read:

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

3. Search for:

- The research keyword/s within Keywords Plus®
- The relevant article

4. Make a Bibliometrics database based on the research keywords

5. Find some good literature review papers in your field of study

My recent publications

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ndre Matthias Müller¹, Payam Ansari¹, Nader Ale Ebrahim², and
o¹

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Home > Vol 8, No 2 (2017) > Muhammad

Impact of Article Page
Related Fields: A Study
Abubakar AHMED, Mastura

ABSTRACT
The Rise of "Trade Liberalization": Bibliometric Analysis of Trade Liberalization Study
Murtala Muhammad, Abubakar Ahmed, Gold Kafilah Lola, Usman Mikail Usman, Nader Ale Ebrahim
Background: Citation metric and visibility of a field. Hence performance metric index. M scientific publications. Yet, it aimed to provide an insight

Abstract
The purpose of this research is to assess the universal scientific trends and examine the patterns in the intellectual research published on trade liberalization over a period of 35 years (1980-2015). The data were collected from a leading indexing and abstracting database Thomson Reuters Web of Science. The Kruskal-Wallis test, ANOVA and Pearson's correlation were employed in analyzing the retrieved data. Based on the citation trend of first 100 highly cited published articles with the least number of authors are found to have received the highest number of citations. Our result shows that there is actual statistical significance ($p < 0.001$) between the total citations attracted by articles published by 1 author and those published by 3 and 4 authors. The word trade liberalization has become dominant and consistent in the field of the study. These research trend and interest could provide focus to researchers for future research.

by irregular cell of cells, leading to are increasingly study
A. Fetraty, Amir Pezeshkan

A BIBLIOMETRIC ANALYSIS ON "FERTILIT RESEARCH TRENDS"
Shalini Nagaratnam, Nader Ale Ebrahim, Muzafar Shah Habibullah

ABSTRACT

All [] Search []

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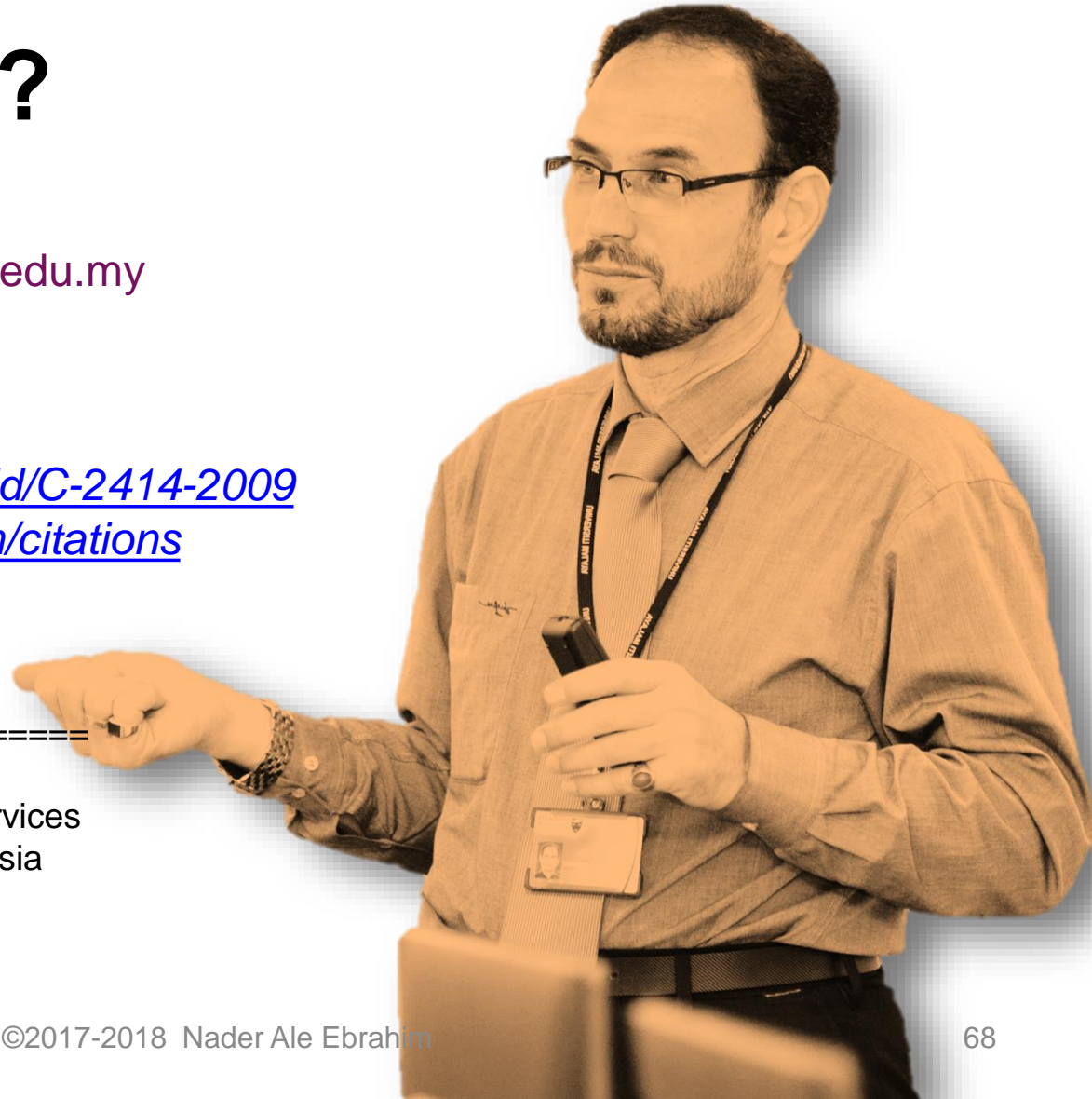
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<http://scholar.google.com/citations>

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6. [Research methods for business students](#) / Mark Saunders, Philip Lewis, Adrian Thornhill. —5th ed.
7. Ale Ebrahim, N., Ahmed, S., & Taha, Z. (2009). [Virtual R & D teams in small and medium enterprises: A literature review](#). [Review]. *Scientific Research and Essay*, 4(13), 1575–1590.
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My recent publication:

1. Muhammad, M., Ahmed, A., Lola, G. K., Mikail Usman, U., & Ale Ebrahim, N. (2017). The Rise of "Trade Liberalization": Bibliometric Analysis of Trade Liberalization Study. *Mediterranean Journal of Social Sciences*, 8(2), 97-104. <http://ssrn.com/abstract=2928551>

My recent presentations:

1. Ale Ebrahim, Nader (2017): Citation Tracking for Future Collaboration and Improving H-index. <https://doi.org/10.6084/m9.figshare.4982114.v1>
2. Ale Ebrahim, Nader (2017): Improving Research Visibility Part 3: Online Profiles. <https://doi.org/10.6084/m9.figshare.4959788.v1>
3. Ale Ebrahim, Nader (2017): Publishing Research Support Documents in Open Access Platform. <https://doi.org/10.6084/m9.figshare.4929635.v1>
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