

Research Skills

Session 6: Read a Paper

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<https://publons.com/researcher/1692944>
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All of my presentations are available online at:
https://figshare.com/authors/Nader_Ale_Ebrahim/100797

Abstract

Recently many Artificial Intelligence (AI) tools were developed to summarize and extract the highlighted points of documents. Such tools will assist the research to evaluate a paper content before full reading the entire document. In this workshop, Dr. Nader introduces some tools for reading a paper from his Research Tools Mind Map. The Research Tools enable researchers to follow the correct path in research and to ultimately produce high-quality research outputs with more accuracy and efficiency.

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

**Do Research,
Don't Re-Search**

A word cloud with the following words and approximate sizes:

- Research (Large, Yellow)
- Ale (Large, Maroon)
- Ebrahim (Large, Green)
- Nader (Large, Green)
- Tools (Large, Orange)
- Founder (Large, Red)
- Science (Medium, Orange)
- Journal (Medium, Green)
- Title (Medium, Green)
- Number (Medium, Maroon)
- Google (Medium, Green)
- Study (Medium, Green)
- Results (Medium, Green)
- Abstract (Medium, Maroon)
- Reference (Medium, Maroon)
- Farhadi (Medium, Maroon)
- H-index (Medium, Green)
- Web (Medium, Orange)
- Attachments (Medium, Orange)
- Original (Medium, Orange)
- File (Medium, Green)
- Keywords (Medium, Green)
- URL (Medium, Orange)
- Short Issue (Medium, Green)
- Pages (Medium, Green)
- Citations (Medium, Green)
- Impact (Medium, Yellow)
- Author (Medium, Maroon)
- Scopus (Medium, Maroon)
- h-index (Medium, Orange)
- Publication (Medium, Green)
- ICT (Medium, Orange)
- Date (Medium, Orange)
- Scholar (Medium, Orange)
- Volume (Medium, Orange)
- Citation (Medium, Orange)
- Year (Medium, Orange)
- ISSN (Medium, Orange)
- Research (Medium, Yellow)
- Education (Medium, Orange)
- Nodes (Medium, Green)
- Two (Medium, Orange)
- Article (Medium, Green)
- Record (Medium, Green)
- Databases (Medium, Green)
- Hadi (Medium, Maroon)

Research Tools Mind Map

Web of Science


SCOPUS

EndNote

OATD

& many more Research Tools



 *Virtual Teams will become as important as l*



(1) Searching the literature

dtSearch

SpringerExemplar

Qiqqa

Academic Phrasebank

& many more tools



Research Tools

By: Nader Ale Ebrahim

Research Tools
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(2) Writing a paper

Journal Citation Reports

Journal Metrics

(4) Enh Manuscript matcher

Find the perfect journal for your arti

& many more Research Tools



Source: <https://pixabay.com/en/discussion-session-white-male-1874793/>



(3) Targeting suitable journals

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:

- https://www.dlsweb.rmit.edu.au/lisu/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.”

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
6. Write the methodology used for selecting the final keywords set

Tasks for the third session

1. Install a reference management software
2. Download selected papers (based on the final keywords set) into the reference management software

Tasks for the fourth session

1. Measure the downloaded papers/journal's quality
2. Rate the downloaded papers in your Desktop
Endnote library
3. Turn on Alert system in Scopus, WoS and other
databases based on the selected papers

Tasks for the fifth session

1. Create your own thesis/paper table of contents
2. Identify the main topics from your collected documents
3. Create your literature review/Thesis Mind Map
4. Plan your Thesis/Paper writing process

Outline

No.	Topic
1	Iris.ai - Your Science Assistant
2	Scholarcy: Online Summarizing Tool & Article Summarizer
3	Paper Digest – Artificial Intelligence summarizes tool
4	Others summarizes tool
5	THE THREE-PASS APPROACH
6	

How to Read a Paper

Hi, I'm Iris.ai

I speed up your literature review!

TRY ME

Semi-automate the systematic research landscape mapping

- The interdisciplinary Explore tool bypasses the need for keyword query building **[Free]**
- The Focus tool allows you to iteratively narrow down a large corpus to a precise reading list **[Premium]**
- Premium licenses allow connecting to other repositories beyond the initial 70 million OA papers.

LEARN MORE

Q Publication Trends in Drug Delivery and Magnetic Nanoparticles

I've identified 311 related papers and grouped them by concept.



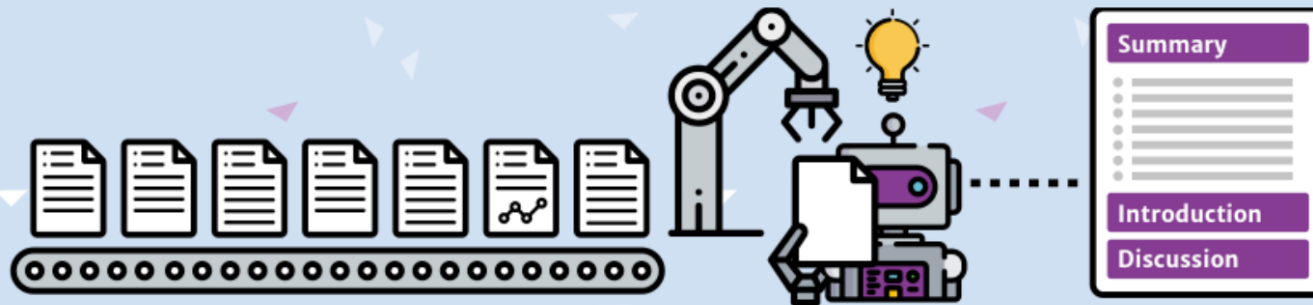
ALL

EDIT MAP

FILTER



Scholarcy creates a summary flashcard from any document, giving you the key facts faster.





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← → ↻ <https://nanoscalereslett.springeropen.com/articles/10.1186/s11671-019-2994-y> ☆

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About **Articles** Submission Guidelines

Nano Review | **OPEN** | Published: 16 May 2019

Publication Trends in Drug Delivery and Nanoparticles

[Saba Ale Ebrahim](#), [Amirhossein Ashtari](#), [Maysam Zamani Pedram](#) ✉ & [Nader Ale Ebrahim](#)

Nanoscale Research Letters **14**, Article number: 164 (2019) | [Download Citation](#)

Abstract

v1.5

Options About FAQ

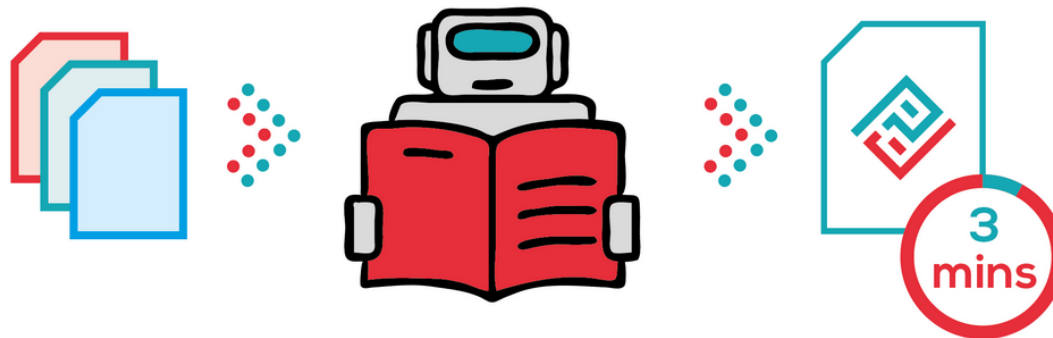
scholarcy

Scholarcy highlights

- Nowadays, nanoscale structures are widely proposed and attracted many researchers' attention for usage in cellular [biology](#) [1]
- The significant advances in [nanotechnology](#) are the reason for this attraction
- The main concern is focused on improving drug delivery efficiencies which are generally described in low disruptions, sustainability, and accurate and precise targeted delivery control [3]
- Some researchers used bare nanoparticles as a novel method for brain disorder detection. They have crossed bare nanoparticle through the blood-brain barrier [8–10] towards the brain, and regarding the magnetic behaviour of the epileptic area, [magnetic nanoparticles](#) are aggregated in the defined area [11]. This bibliometric study investigated the public trends in the fields of nanoparticles, which is limited to drug delivery and magnetic nanoparticles' literature
- This paper reports on the use of a bibliometric approach to analyse the productivity and development of publications on the title of nanoparticles in the period 1980–2017
- In summary, an extensive bibliometric analysis of nanoparticles-based research documents was made with the help of the [Web of Science](#) database

Artificial Intelligence summarizes academic articles for you

Reducing reading time to **3 minutes!**



Publication Trends in Drug Delivery and Magnetic Nanoparticles

Saba Ale Ebrahim; Amirhossein Ashtari; Maysam Zamani Pedram; Nader Ale Ebrahim 2019

<https://doi.org/10.1186/s11671-019-2994-y>

What this paper is about

Introduction and Objective

- The results of the bibliometric analysis can shed light on the factors that strengthen the contribution of studies in a research area and guide scholars towards producing impactful studies . The Author. 2019 Open Access This article is distributed under the terms of the Creative Commons Attribution 4.0 International License, which permits unrestricted use, distribution, and reproduction in any medium, provided you give appropriate credit to the original author and the source, provide a link to the Creative Commons license, and indicate if changes were made. *
- This paper reports on the use of a bibliometric approach to analyse the productivity and development of publications on the title of nanoparticles in the period 19802017.
- Therefore, in this study, the growing trend of documents published in recent years in the field of nanoparticles is considered.

Online summarize tool (free summarizing)



Go to the main ideas in your texts, summarize them « **relevantly** » in 1 Click

THE THREE-PASS APPROACH

1-The first pass

The first pass is a quick scan to get a bird's-eye view of the paper. You can also decide whether you need to do any more passes. This pass should take about **five to ten minutes** and consists of the following steps:

1. Carefully read the title, abstract, and introduction
2. Read the section and sub-section headings, but ignore everything else
3. Read the conclusions
4. Glance over the references, mentally ticking off the ones you've already read.

[Source: Keshav, S. \(2007\). How to read a paper. ACM SIGCOMM Computer Communication Review, 37\(3\), 83-84.](#)



THE THREE-PASS APPROACH

1- The second pass

In the second pass, read the paper with greater care, but ignore details such as proofs. It helps to jot down the key points, or to make comments in the margins, as you read. The second pass should **take up to an hour**. You should be able to summarize the main idea of the paper, with supporting evidence, to someone else.

1. Look carefully at the figures, diagrams and other illustrations in the paper. Pay special attention to graphs.
2. Remember to mark relevant unread references for further reading (this is a good way to learn more about the background of the paper).

THE THREE-PASS APPROACH

1- The third pass

To fully understand a paper, particularly if you are reviewer, requires a third pass. The key to the third pass is to attempt to virtually re-implement the paper: that is, making the same assumptions as the authors, re-create the work. By comparing this re-creation with the actual paper, you can easily identify not only a paper's innovations, but also its hidden failings and assumptions.

This pass can take **about four or five hours** for beginners, and about an hour for an experienced reader.

[Source: Keshav, S. \(2007\). How to read a paper. ACM SIGCOMM Computer Communication Review, 37\(3\), 83-84.](#)

Task for the sixth session

1. Read [Keshav, S. \(2007\). How to read a paper. *ACM SIGCOMM Computer Communication Review*, 37\(3\), 83-84.](#)



Thank you!

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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) ["A Crisis in "Open Access": Should Communication Scholarly Outputs Take 77 Years to Become Open Access?"](#), *SAGE Open*, vol. 9, no. 3, pp. 1-8,
2. 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: <https://doi.org/10.1186/s11671-019-2994-y>
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>
4. Elaish, M. M., Shuib, L., Ghani, N. A., Mujtaba, G., & Ale Ebrahim, N. (2019). A Bibliometric Analysis of M-Learning from Topic Inception to 2015. *International Journal of Mobile Learning and Organisation*, 13(1), 91-112. <https://doi.org/10.1504/IJMLLO.2019.096470>
5. 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: <https://doi.org/10.1504/IJSSM.2019.099036>

My recent presentations:

1. Ale Ebrahim, Nader (2019): Research Skills Session 5: Managing Research. figshare. Presentation. <https://doi.org/10.6084/m9.figshare.10257509.v1>
2. Ale Ebrahim, Nader (2019): Research Skills Session 4: Evaluate a paper quality. figshare. Presentation. <https://doi.org/10.6084/m9.figshare.10032167.v1>
3. Ale Ebrahim, Nader (2019): Research Skills Session 3: Finding Research Papers. figshare. Presentation. <https://doi.org/10.6084/m9.figshare.9993059.v1>
4. Ale Ebrahim, Nader (2019): Research Skills Session 2: Selecting keywords. figshare. Presentation. <https://doi.org/10.6084/m9.figshare.9946706.v1>
5. Ale Ebrahim, Nader (2019): Research Skills Session 1: Introduction. figshare. Presentation. <https://doi.org/10.6084/m9.figshare.9931163.v1>

Reference

1. [Keshav, S. \(2007\). How to read a paper. *ACM SIGCOMM Computer Communication Review*, 37\(3\), 83-84.](#)