

Research Skills (Write a Bibliometric Paper)

Session 2: Defining Your Research Objective and Analyzing Examples

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 <https://publons.com/researcher/1692944>
<https://scholar.google.com/citation>

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

Abstract

The bibliometric analysis is a crucial statistical tool for gaining insights into the current state of scientific knowledge within a specific research domain. Utilizing techniques like publication and citation counting, co-citation analysis, bibliographic coupling, keyword co-occurrence, and co-authorship networks, bibliometrics empowers researchers to identify pertinent research challenges and generate impactful studies. Furthermore, incorporating a bibliometric paper before embarking on a literature review or within a research paper's introduction allows researchers to articulate their objectives and methodologies with precision and brevity. The "Write a Bibliometric Paper: Unveiling the Power of [Research Tools](#) for Effective Research Writing and Publication" workshop series is designed to equip participants with essential skills and knowledge for conducting bibliometric research and producing high-quality research papers. "Defining Your Research Objective and Analyzing Examples" specifically guides you in formulating a clear research question or objective. By analyzing well-crafted bibliometric research papers, you'll discern key elements of effective research, ensuring your work stands out in your field of study.

Keywords: [Research Tools](#), Bibliometrics, Research Objectives, Analysis Techniques, Effective Research

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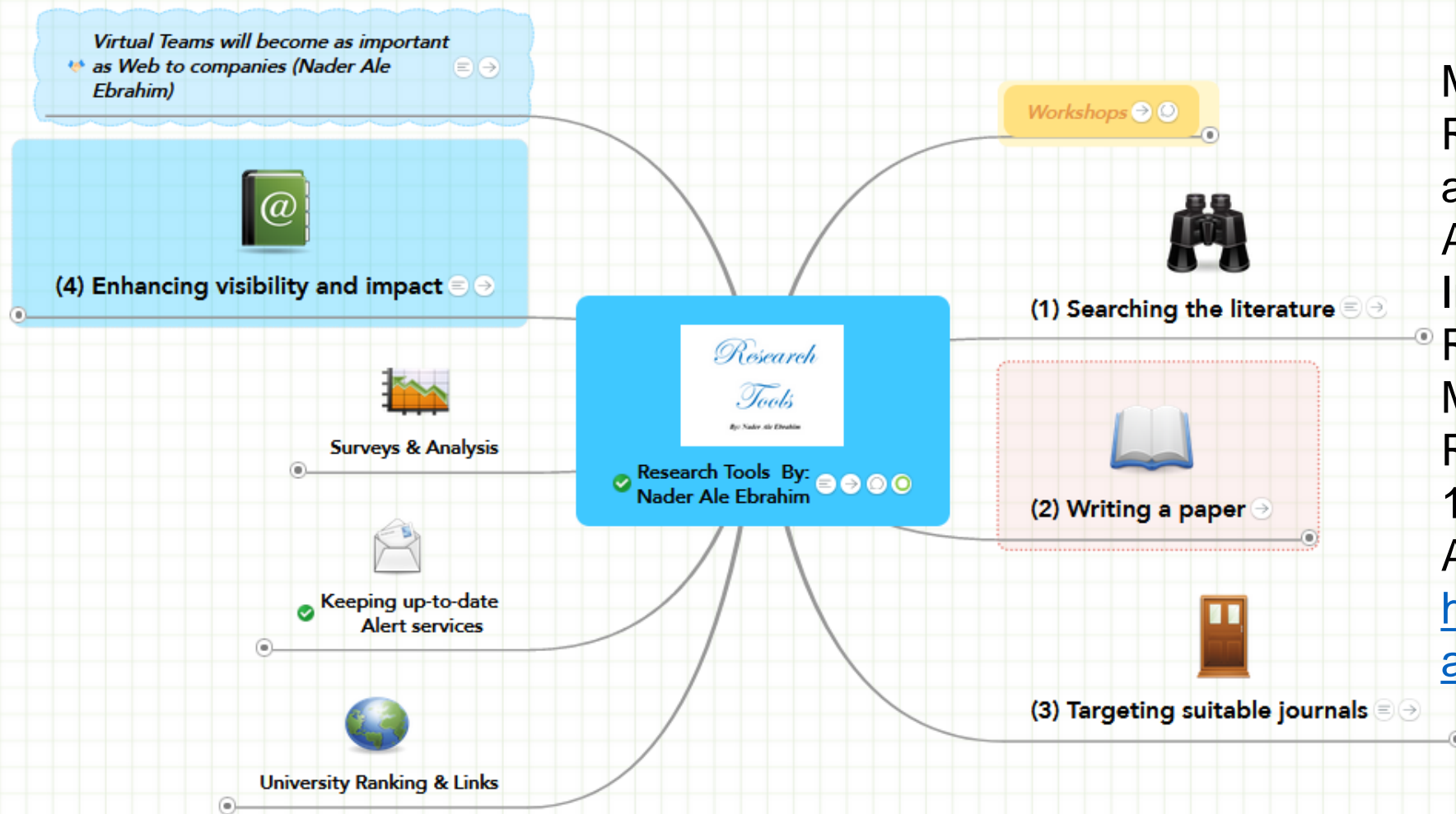
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not included in the
public version.

No.	Session Title	Content Description	Date
1	Introduction to Bibliometrics	Introduction to bibliometrics and its role in research writing, Define key bibliometric measures used in research evaluation and assessment	March 9
2	Defining Your Research Objective and Analyzing Examples	How to define a clear research question or objective, Showcase examples of well-written bibliometric research papers, Analyze successful papers and identify key elements of their effectiveness	March 16
3	Keywords Selection	Effective selection and utilization of keywords in bibliometrics, Identifying and choosing search terms to retrieve relevant articles that align with research objectives	April 06
4	Navigating Data Sources	Identify and assess various data sources suitable for bibliometric research, Learn to access and utilize relevant data for in-depth analysis	April 13
5	Data Collection and Cleanup	Retrieving and cleaning data, removing duplicates, correcting errors, standardizing bibliographic information	April 20
6	Visualizing Patterns and Trends with VosViewer	Utilize VOSviewer for advanced data visualization and quantitative analysis in bibliometrics, Identify patterns and trends in research output	April 27
7	Unveiling Insights with Bibliometrix	Explore the functionalities of Bibliometrix for bibliometric analysis and data processing, Introduction to other visualization tools for quantitative analysis of bibliometric data	May 11
8	Ensuring Ethical Practices in Bibliometric Research	Understanding different types of plagiarism and the consequences of academic misconduct, Avoiding plagiarism, and ensuring ethical practices in bibliometric research	May 18
9	Crafting Impactful Bibliometric Papers	Structure bibliometric papers effectively to convey research findings and insights clearly, Highlight emerging trends, and address knowledge gaps in the relevant field	May 25
10	Enhancing Paper Quality and Analyzing Data	Criteria for evaluating the quality of papers in bibliometric research, Interpreting results, drawing conclusions about research questions/objectives, Enhance the overall quality of bibliometric papers	June 01
11	Navigating Publication: From Submission to Peer Review	Journal selection strategies for bibliometric papers, Manuscript submission process and guidelines, Understanding the peer review process, and addressing reviewer comments	June 08
12	Amplify Your Research Visibility and Impact	Implement strategies to increase research visibility and impact through effective dissemination, Leverage networking opportunities to reach a broader audience, and create a lasting impact	June 15

Research Tools Box (Mind Map)



More info about the Research Tools is available at:
Ale Ebrahim, Nader, Introduction to the Research Tools Mind Map (June 14, 2013). Research World, Vol. 10, No. 4, pp. 1-3, Available at SSRN: <https://ssrn.com/abstract=2280007>

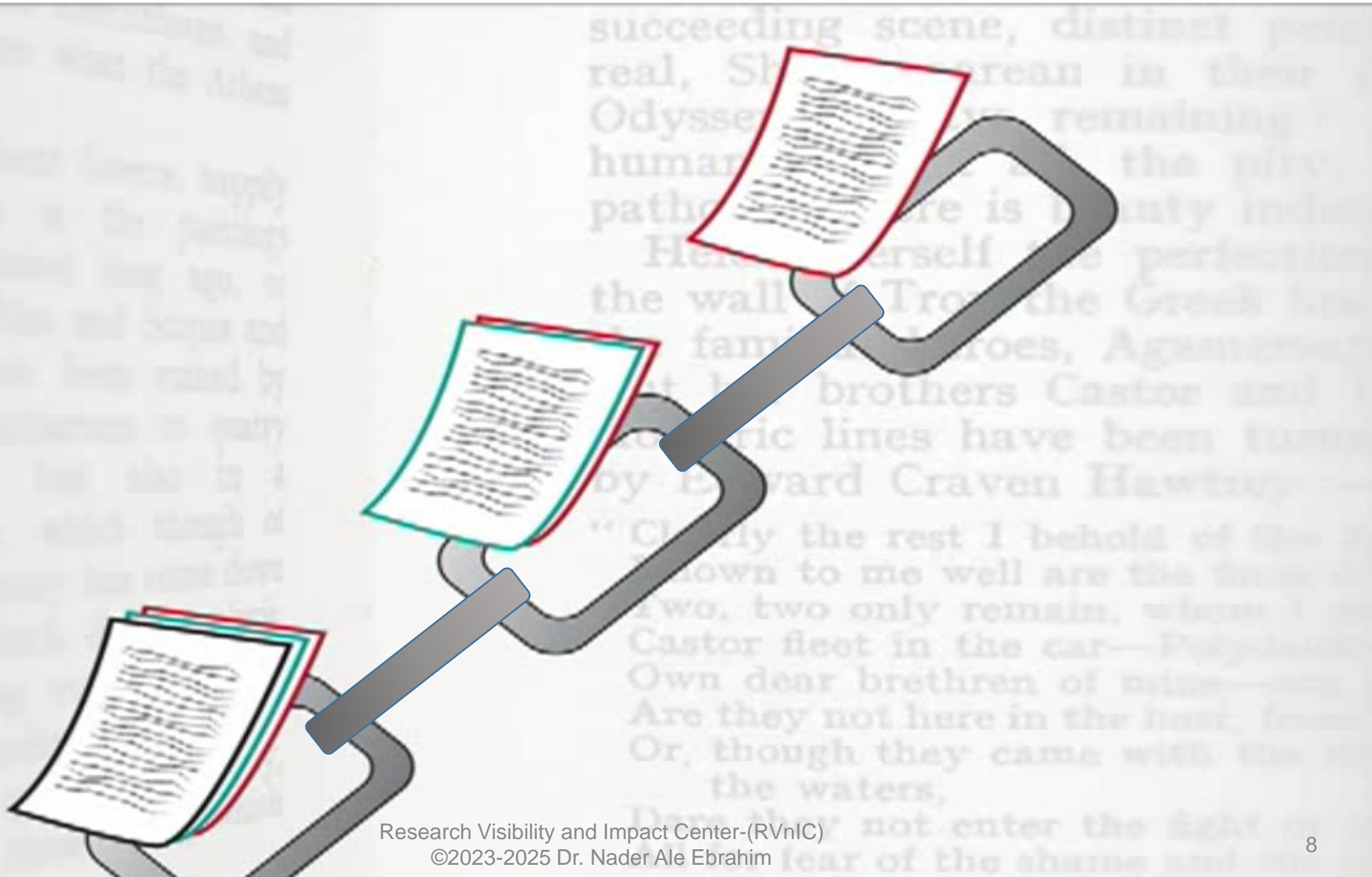
Source: <https://www.mindmeister.com/39583892/research-tools-by-nader-ale-ebrahim?fullscreen=1#>

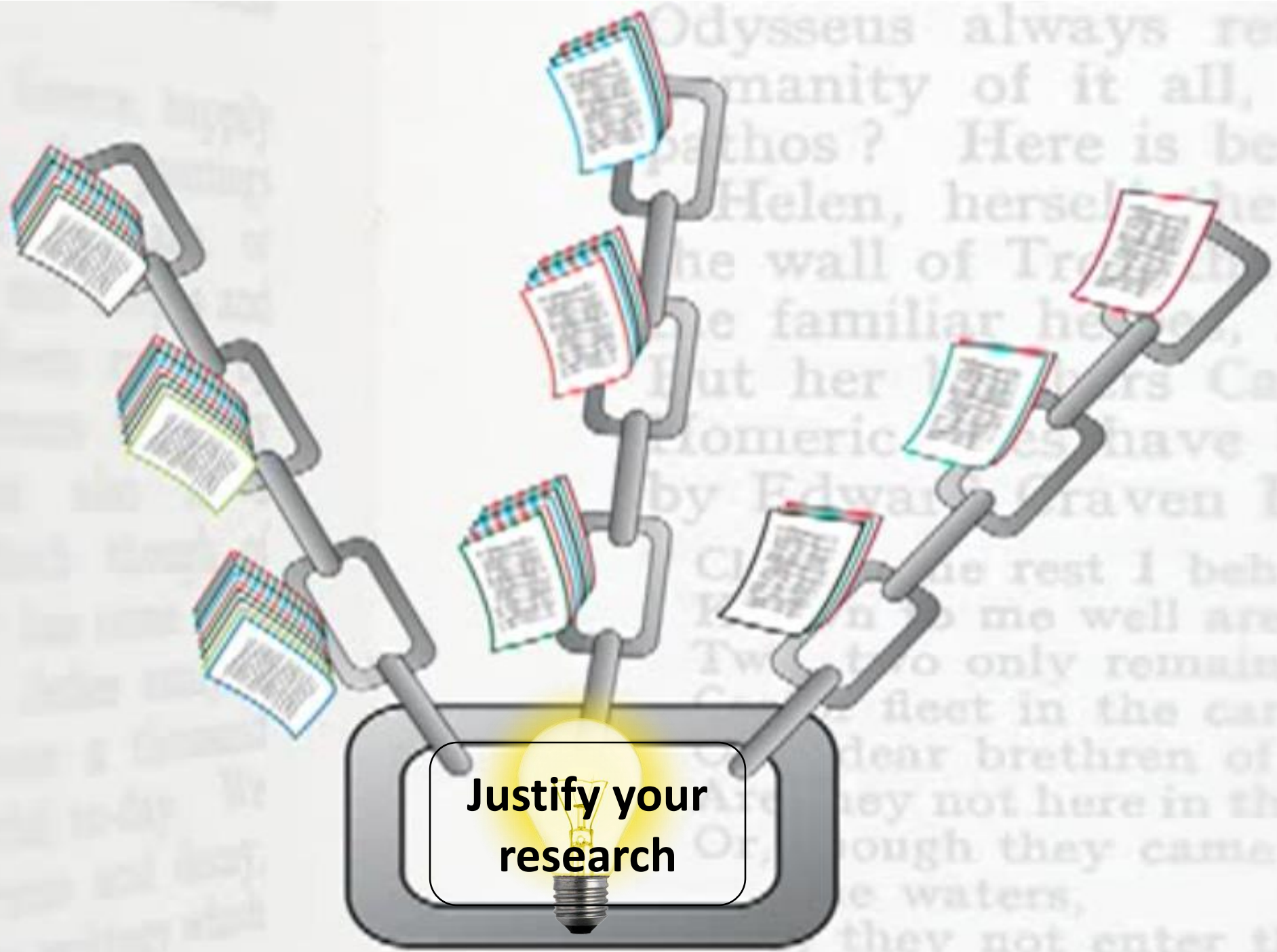
To-Do List Session 1: Introduction to Bibliometrics

1. Write an introduction paragraph about Bibliometrics



2- Defining Your Research Objective and Analyzing Examples





**Justify your
research**

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.](#)

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)

Source: <http://owll.massey.ac.nz/study-skills/critical-reading.php>

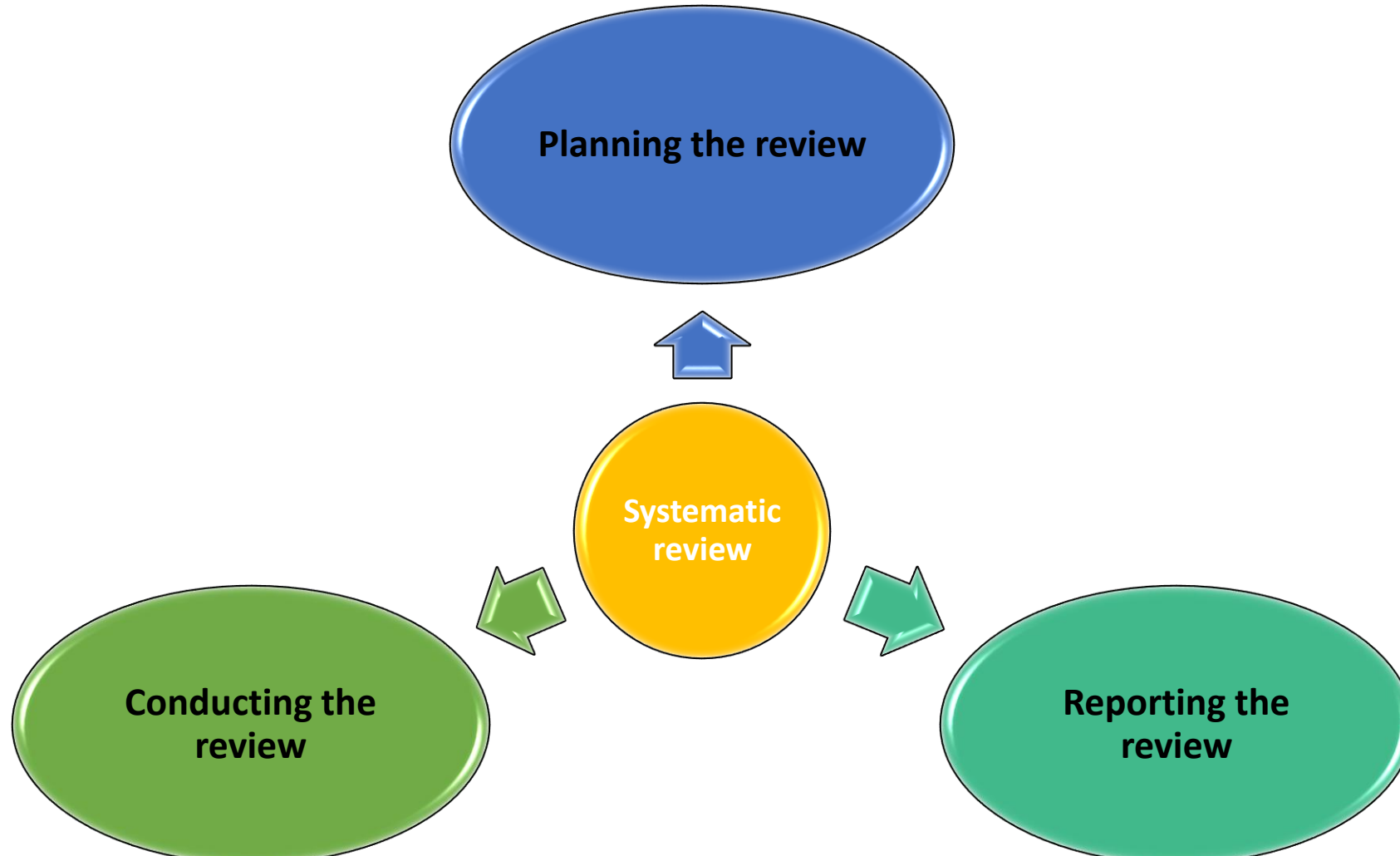
Critical reading

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

Source: <http://owll.massey.ac.nz/study-skills/critical-reading.php>

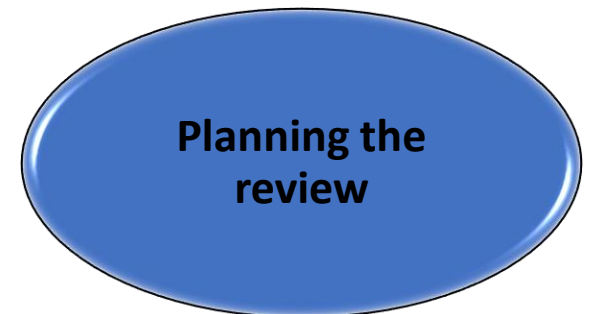
The Systematic Review Process



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 the 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**

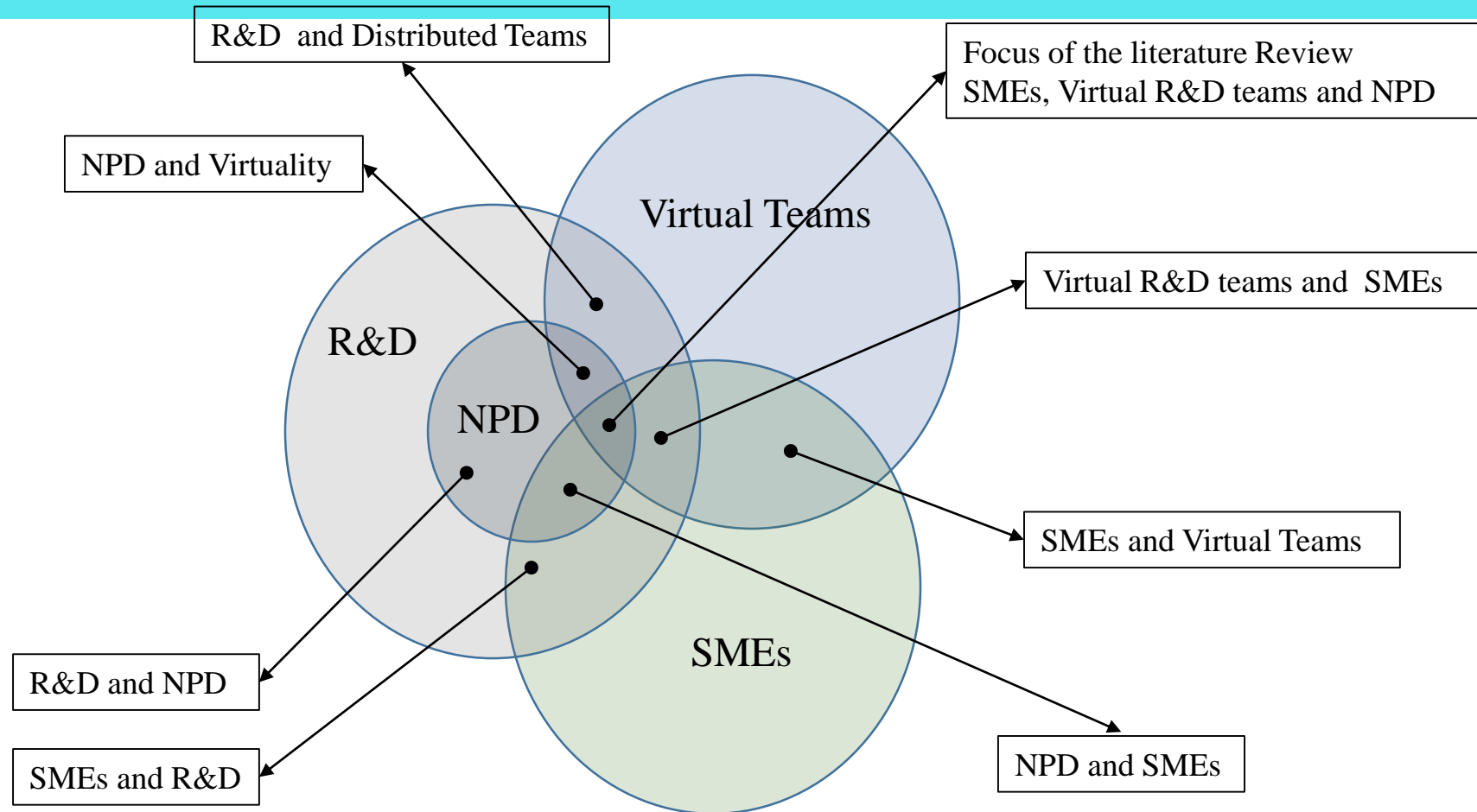
Reporting the review

Reporting the review is a single-stage phase.



Reporting the review

Narrow down the area of research



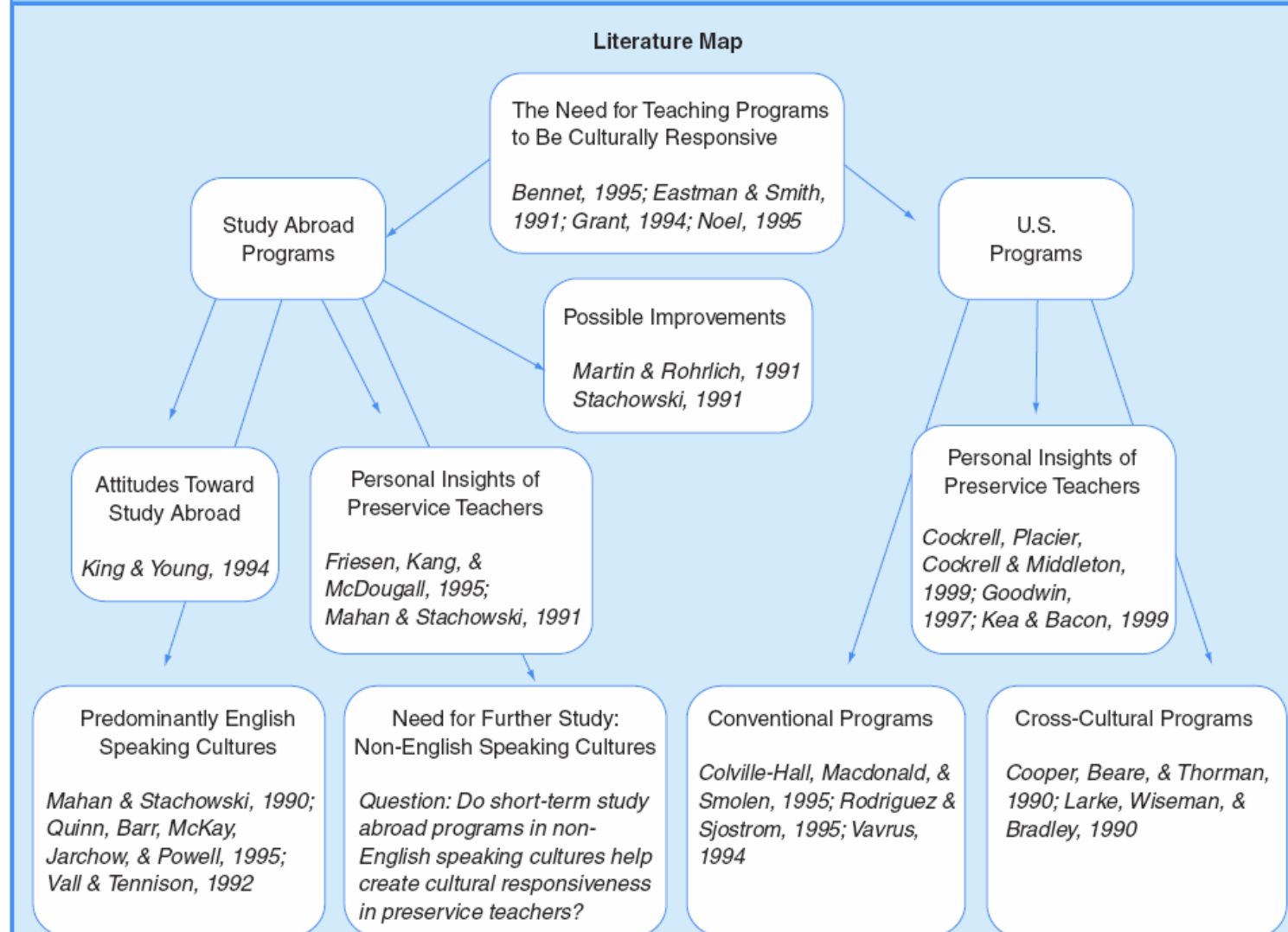
Ale Ebrahim, N., Ahmed, S., & Taha, Z. (2009). [Virtual R & D teams in small and medium enterprises: A literature review](#). [Review]. Scientific Research and Essay, 4(13), 1575–1590.

Example of a MindMap



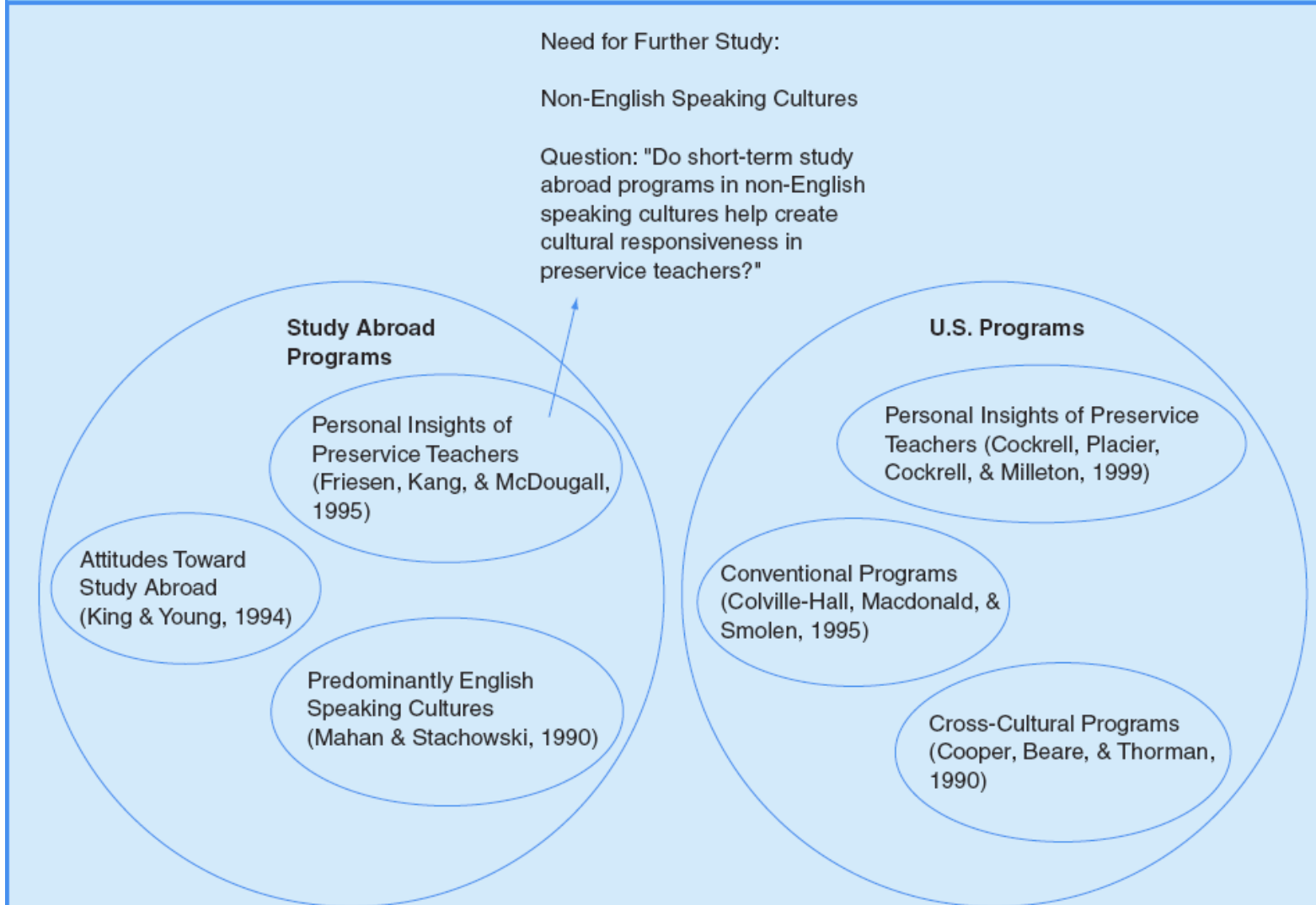
Source: Ross' PhD Literature Review Mind Map

A Literature Map, Hierarchical Design



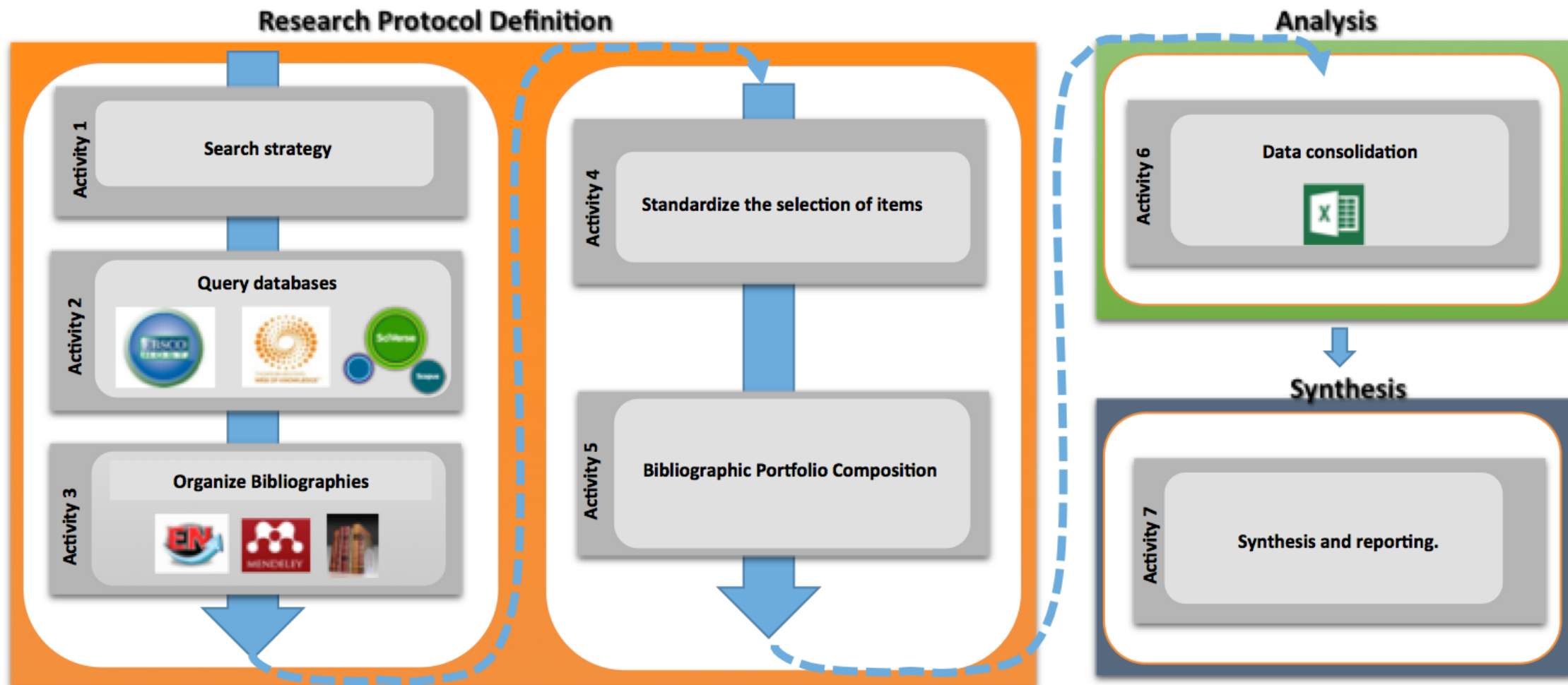
Source: Creswell, J. W. (2012). *Educational research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research (4th ed. ed.)*. Boston: Pearson Education, Inc.

A Literature Map, Circular Design



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

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>

Utilizing AI to Define Your Research Objectives

- 1- OpenAI ChatGPT
- 2- Google Gemini
- 3- Microsoft Copilot

1- Utilize ChatGPT

ChatGPT 4 ▾

 editGPT



You

I am going to write a thesis proposal about improving research visibility and impact. Please suggest 5 titles that are proper for a PhD thesis.



ChatGPT

Crafting a thesis title that effectively encapsulates your research focus is crucial for setting the right tone and direction for your work. Given your area of expertise and intended research on improving research visibility and impact, here are five suggested titles for a PhD thesis that reflect the depth and scope of such a study:

1.

"Strategies for Enhancing Academic Research Visibility and Impact in the Digital Era": This title suggests a comprehensive approach to understanding and implementing strategies that leverage digital platforms and tools to boost the visibility and impact of academic research.

Source: <https://chat.openai.com>

I am going to write a thesis proposal about improving research visibility and impact. Please suggest 5 titles that are proper for a PhD thesis.

1. **"Strategies for Enhancing Academic Research Visibility and Impact in the Digital Era"**: This title suggests a comprehensive approach to understanding and implementing strategies that leverage digital platforms and tools to boost the visibility and impact of academic research.
2. **"Evaluating the Efficacy of Open Access: A Pathway to Increased Research Visibility and Citation Impact"**: This focuses on assessing the role of open access publications in enhancing research visibility and examines how this model contributes to higher citation rates, serving as a critical component of your research interest.
3. **"The Role of Social Media and Digital Networking in Amplifying Academic Research Impact"**: This title highlights the investigation of modern digital communication channels, particularly social media, in promoting research work and engaging broader audiences, thereby increasing its impact.
4. **"Innovative Approaches to Research Dissemination: Maximizing Visibility and Impact through Cross-Disciplinary Platforms"**: This suggests a study on novel dissemination strategies that transcend traditional academic boundaries, exploring how interdisciplinary platforms can serve as powerful tools for increasing research visibility and impact.
5. **"Metrics of Success: Developing a Framework for Measuring and Enhancing the Impact of Academic Research"**: This title proposes the creation of a new, comprehensive framework aimed at measuring research impact more effectively, with the goal of providing researchers and institutions with actionable insights to enhance visibility.

I will select the third one, please write a short proposal for it.

Title: The Role of Social Media and Digital Networking in Amplifying Academic Research Impact

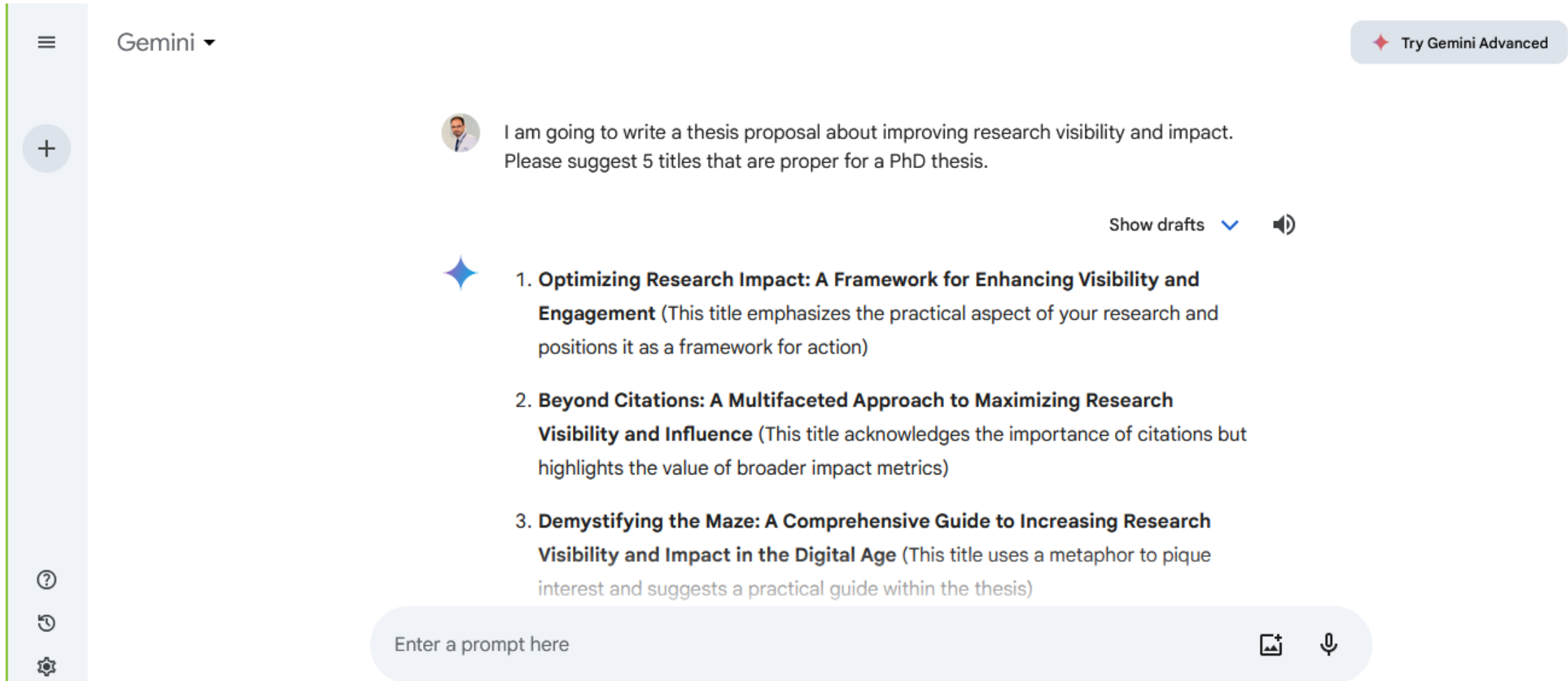
Introduction

In the current digital age, social media and digital networking platforms have emerged as pivotal tools for disseminating information rapidly across global audiences. This shift towards digital communication presents a unique opportunity for the academic community to leverage these platforms for research dissemination. The proposed study aims to investigate the effectiveness of social media and digital networking in enhancing the visibility and impact of academic research. By exploring various strategies and their outcomes, this research will contribute to a deeper understanding of how digital platforms can serve as catalysts for academic engagement and knowledge dissemination.

Objectives

1. To analyze the current landscape of social media and digital networking in the context of academic research dissemination.
2. To identify and evaluate effective strategies for utilizing social media to enhance research visibility and impact.
3. To assess the impact of social media engagement on the citation metrics and overall visibility of academic research.
4. To develop a set of best practices for researchers and institutions aiming to maximize the impact of their research through digital platforms.

2- Utilize Gemini



The screenshot shows the Gemini AI interface. On the left is a vertical sidebar with icons for menu, add, help, history, and settings. The main area displays a prompt: "I am going to write a thesis proposal about improving research visibility and impact. Please suggest 5 titles that are proper for a PhD thesis." Below the prompt are three suggested titles, each with a blue star icon. The first title is "1. Optimizing Research Impact: A Framework for Enhancing Visibility and Engagement", the second is "2. Beyond Citations: A Multifaceted Approach to Maximizing Research Visibility and Influence", and the third is "3. Demystifying the Maze: A Comprehensive Guide to Increasing Research Visibility and Impact in the Digital Age". At the bottom of the main area is a text input field with the placeholder "Enter a prompt here" and icons for image upload and voice input. In the top right corner, there is a button that says "Try Gemini Advanced".

Gemini

Try Gemini Advanced

I am going to write a thesis proposal about improving research visibility and impact. Please suggest 5 titles that are proper for a PhD thesis.

Show drafts

- 1. Optimizing Research Impact: A Framework for Enhancing Visibility and Engagement** (This title emphasizes the practical aspect of your research and positions it as a framework for action)
- 2. Beyond Citations: A Multifaceted Approach to Maximizing Research Visibility and Influence** (This title acknowledges the importance of citations but highlights the value of broader impact metrics)
- 3. Demystifying the Maze: A Comprehensive Guide to Increasing Research Visibility and Impact in the Digital Age** (This title uses a metaphor to pique interest and suggests a practical guide within the thesis)

Enter a prompt here

Gemini may display inaccurate info, including about people, so double-check its responses. [Your privacy & Gemini Apps](#)

Source: <https://gemini.google.com>

I am going to write a thesis proposal about improving research visibility and impact. Please suggest 5 titles that are proper for a PhD thesis.

1. **Optimizing Research Impact: A Framework for Enhancing Visibility and Engagement** (This title emphasizes the practical aspect of your research and positions it as a framework for action)
2. **Beyond Citations: A Multifaceted Approach to Maximizing Research Visibility and Influence** (This title acknowledges the importance of citations but highlights the value of broader impact metrics)
3. **Demystifying the Maze: A Comprehensive Guide to Increasing Research Visibility and Impact in the Digital Age** (This title uses a metaphor to pique interest and suggests a practical guide within the thesis)
4. **The Engaged Scholar: Strategies for Building Research Visibility and Shaping Scientific Discourse** (This title focuses on the researcher's role and positions the research as a way to shape the field)
5. **Unveiling the Gems: A Data-Driven Exploration of Factors Influencing Research Visibility and Impact** (This title highlights the use of data analysis and positions the research as an exploration)

Source: <https://gemini.google.com>

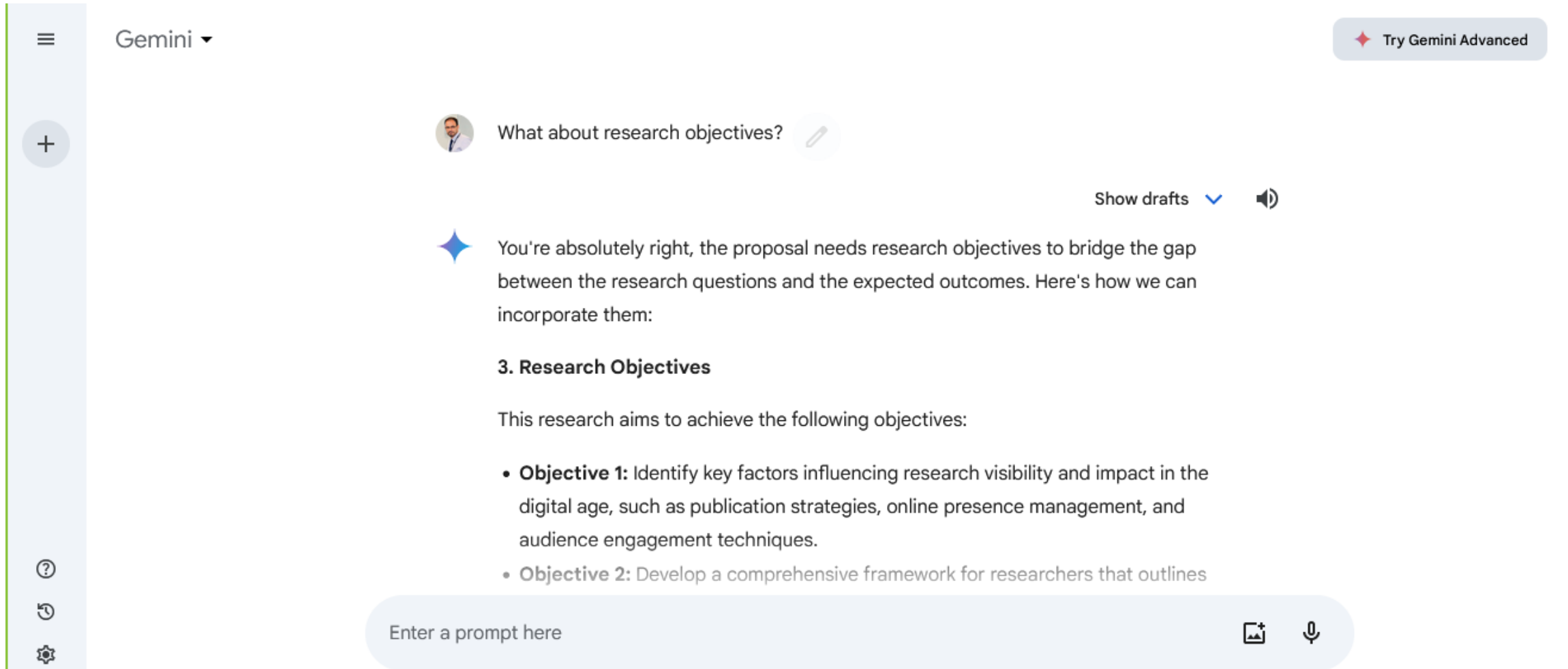
I will select the first one, please write a short proposal for it.

PhD Thesis Proposal: Optimizing Research Impact: A Framework for Enhancing Visibility and Engagement

1. Introduction

The contemporary research landscape demands not just robust scholarship but also effective communication and dissemination of research findings. While citations remain a key metric, maximizing research impact requires a multifaceted approach that enhances visibility and fosters engagement with a broader audience. This thesis proposes a novel framework to optimize research impact, emphasizing strategies beyond traditional citation metrics.

Research Objectives



The screenshot shows the Gemini AI interface. At the top left, there is a menu icon and the text "Gemini". At the top right, there is a button that says "Try Gemini Advanced". The main content area shows a user prompt: "What about research objectives?". The AI response starts with a blue star icon and says: "You're absolutely right, the proposal needs research objectives to bridge the gap between the research questions and the expected outcomes. Here's how we can incorporate them:". This is followed by a section header: "3. Research Objectives". Below this, it says "This research aims to achieve the following objectives:" and lists two objectives. At the bottom, there is a text input field with the placeholder "Enter a prompt here" and icons for image upload and voice input.

Gemini

Try Gemini Advanced

What about research objectives?

Show drafts

You're absolutely right, the proposal needs research objectives to bridge the gap between the research questions and the expected outcomes. Here's how we can incorporate them:

3. Research Objectives

This research aims to achieve the following objectives:

- **Objective 1:** Identify key factors influencing research visibility and impact in the digital age, such as publication strategies, online presence management, and audience engagement techniques.
- **Objective 2:** Develop a comprehensive framework for researchers that outlines

Enter a prompt here

Gemini may display inaccurate info, including about people, so double-check its responses. [Your privacy & Gemini Apps](#)

Source: <https://gemini.google.com>

3- Utilize Copilot

The screenshot displays the Microsoft Copilot interface. At the top, there are navigation icons for Windows, Copilot, and Notebook, along with a 'Try the app' button. The main chat area shows a user asking for five PhD thesis titles related to improving research visibility and impact. Copilot responds with a list of five titles. Below the chat is a text input field with a microphone icon and a character count of 0/4000. On the right side, there is a sidebar with 'Chats' and 'Plugins' tabs. Under 'Copilot GPTs', several options are listed: Copilot, Designer, Vacation planner, Cooking assistant, and Fitness trainer. Under 'Recents', a list of previous chats is shown, including 'PhD Thesis Titles for Improving Res...', 'Dr. Nader Ale Ebrahim's Contributions', 'Meeting at University of Science and Cu', and 'Nema Holding's Suhoor'. A 'Feedback' button is located at the bottom right of the sidebar.

You

I am going to write a thesis proposal about improving research visibility and impact. Please suggest 5 titles that are proper for a PhD thesis.

Copilot

Certainly! Here are **five** potential titles for your PhD thesis proposal on **improving research visibility and impact**:

1. **"Strategies for Enhancing Research Visibility: A Comprehensive Study"**
2. **"Maximizing Research Impact: Techniques and Best Practices"**
3. **"Navigating the Visibility Landscape: A Guide for Researchers"**
4. **"Open Access and Beyond: Boosting Research Visibility"**
5. **"Measuring Impact: Metrics and Strategies for Research Visibility"**

Ask me anything... 0/4000

Chats Plugins Nader

Copilot GPTs

- Copilot
- Designer
- Vacation planner
- Cooking assistant
- Fitness trainer

Recents

- PhD Thesis Titles for Improving Res...
- Dr. Nader Ale Ebrahim's Contributions 4 days ago
- Meeting at University of Science and Cu 4 days ago
- Nema Holding's Suhoor 5 days ago

See all recent chats

Feedback

Source: <https://copilot.microsoft.com/>

I will select the second one, please write a short proposal for it

Thesis Proposal: Maximizing Research Impact

Abstract

In today's scholarly landscape, research visibility and impact play pivotal roles in advancing scientific knowledge and fostering collaboration. This thesis aims to explore effective strategies and best practices for enhancing research visibility across various disciplines. By analyzing existing literature, conducting case studies, and engaging with experts, we will uncover actionable insights that empower researchers to maximize the impact of their work.

Introduction

Research visibility encompasses more than just publication; it involves disseminating findings to relevant audiences, engaging with peers, and leveraging digital platforms. However, navigating this complex ecosystem can be challenging. Our thesis seeks to address this challenge by investigating key factors that contribute to research impact and proposing practical approaches to amplify visibility.

Source: <https://copilot.microsoft.com/>

Objectives

- 1. Identify Metrics:** We will delve into quantitative and qualitative metrics used to measure research impact, including citation counts, altmetrics, and societal relevance.
- 2. Explore Dissemination Channels:** By examining traditional journals, preprint repositories, and social media platforms, we will uncover effective channels for reaching diverse audiences.
- 3. Leverage Open Access:** We'll explore the benefits of open access publishing and its impact on visibility.
- 4. Collaboration and Networking:** Investigate how collaboration, interdisciplinary networks, and academic conferences enhance visibility.
- 5. Best Practices:** Synthesize practical recommendations for researchers to enhance their visibility and impact.

Source: <https://copilot.microsoft.com/>

Objective - Writing Style

1. objective

- To describe the regional distribution of output in Public Health, and the level of visibility and specialization, for Latin America
- To characterize Latin American scientific output in the realm of Public Health, and its position in the international context.
- To examine whether national immunization coverage or other country-level factors are associated with childhood immunization research productivity in Africa.
- to examine scholarly collaboration between oral health and prenatal providers.
- to explore the link creating behavior of European highly cited scientists based upon their online lists of publications and their institutional personal websites.
- To investigate the web resources linked to by European Highly Cited scientists from their institutional personal home pages and online publication lists to provide access to their academic publications and other resources.
- To examine how communication scholars have incorporated the concept of social capital originating from other disciplines.
- To examine how the concept of social capital has been employed in the field of communication.
- To determine the most frequently cited BRFSS-related topical areas, institutions, and journals.
- To identify telemedicine publication trends within the past two decades with regard to publication year, country, and language.
- To analyze published literature in m-Health



Examples

1. Haidari, S., Hashemi, Z., Jamali, S. M., & Ale Ebrahim, N. (2023). **Quantitative and qualitative analysis** of executive functions: a bibliometric approach. *Current Psychology*. <https://doi.org/10.1007/s12144-023-05033-x>
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To-Do List Session 2: Defining Your Research Objective and Analyzing Examples

1. Find your research objectives;
2. Structure and plan your research (Draw the research map);
3. Find the top 10 bibliometrics papers in your research area identifying research objectives and questions;

4. Read:

- https://www.dlsweb.rmit.edu.au/lsu/content/2_AssessmentTasks/assessment_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.”



**The floor is open to questions and discussions about Research Skills, Session 2:
Defining Your Research Objective and Analyzing Examples.**



Thank you

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 <https://publons.com/researcher/1692944>
<https://scholar.google.com/citation>

 All of my presentations are available online at:
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My Recent Publications

1. Haidari, S., Hashemi, Z., Jamali, S. M., & Ale Ebrahim, N. (2023). Quantitative and qualitative analysis of executive functions: a bibliometric approach. *Current Psychology*. <https://doi.org/10.1007/s12144-023-05033-x>
2. Xue, T., Hafiz, H., & Ale Ebrahim, N. (2023). Emerging Trends of Self-regulated Learning: A Comprehensive Bibliometric Analysis. *World Journal of English Language*, 13(6), 252-269. <https://ideas.repec.org/a/jfr/wjel11/v13y2023i6p252.html>
3. Sorooshian, S., Jamali, S. M., & Ale Ebrahim, N. (2023). Performance of the decision-making trial and evaluation laboratory [Review]. *AIMS Mathematics*, 8(3), 7490-7514. <https://www.aimspress.com/article/id/63c6137dba35de77c348e44a>
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