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الله الرحمن الرحيم

# Improving Research Visibility Part 1: Academic Search Engine Optimization

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



[www.researcherid.com/rid/C-2414-2009](http://www.researcherid.com/rid/C-2414-2009)

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



19<sup>th</sup> April 2017



All of my presentations are available online at:

[https://figshare.com/authors/Nader\\_Ale\\_Ebrahim/100797](https://figshare.com/authors/Nader_Ale_Ebrahim/100797)

Link to this presentation: <https://dx.doi.org/10.6084/m9.figshare.4040133.v1> (Old version)

5<sup>th</sup> SERIES OF WORKSHOP ON:

# *Strategies to Enhance Research Visibility, Impact & Citations*

**Nader Ale Ebrahim, PhD**

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Centre for Research Services  
Research Management & Innovation Complex  
University of Malaya, Kuala Lumpur, Malaysia  
[www.researcherid.com/rid/C-2414-2009](http://www.researcherid.com/rid/C-2414-2009)  
<http://scholar.google.com/citations>

Read more:

1. Ale Ebrahim, N., Salehi, H., Embi, M. A., Habibi Tanha, F., Gholizadeh, H., Motahar, S. M., & Ordi, A. (2013). [Effective Strategies for Increasing Citation Frequency](#). *International Education Studies*, 6(11), 93-99. doi: 10.5539/ies.v6n11p93
2. Ale Ebrahim, Nader. ["Optimize Your Article for Search Engine"](#). *University of Malaya Research Bulletin* 2.1 (2014): 38-39.

# Abstract

**Abstract:** The number of citations a paper receives helps to determine the impact of your research. Even if your research is excellent, if no one finds your paper, it won't be cited. Similar to a company for marketing a retail product, Academic Search Engine Optimization (ASEO) of your journal papers is important to market your research findings. ASEO is almost obligatory if you would like to increase readership of your papers, increase citations and acknowledgment and to create an overall stronger academic visibility, both offline and online. By optimizing your articles, you guarantee that your articles are indexed and gain a higher ranking in general and academic search engines, such as [Google Scholar](#). In order to increase the article visibility and citations, this presentation provides guidelines on how to optimize scholarly literature for academic search engines like Google Scholar.

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

# LITERATURE REVIEWING WITH RESEARCH TOOLS

## BENEFITS!!!!

- ♦ Save time
- ♦ Safe keep downloaded articles
- ♦ Practical usage of research tools
- ♦ Clear direction for literature review and paper writing



## DETAILS

Date : **MAY 16<sup>th</sup> & 23<sup>rd</sup>, 2017 (TUESDAY)**  
 Time : **9.00 am — 4.30 pm**  
 Venue: **Computer Lab, Level 2,  
 Research Management & Innovation Complex (IPPP)**  
 Fees : **RM 400.00 (UM STAFF & STUDENTS)**  
**RM 1,500.00 (NON-UM STAFF & STUDENTS)**

Facilitator

**Dr. Nader Ale Ebrahim**

Visiting Research Fellow, Centre for Research Services, IPPP, UM

- ♦ Winner of 'Refer-a-Colleague Competition'
- ♦ Creator of "Research Tools" Box
- ♦ Developer of "Publication Marketing Tools"



For more details, please visit: <http://umconference.um.edu.my/ls>

## PROGRAMME

No.	Topic	No.	Topic
<b>Day 1:</b>		<b>Day 2:</b>	
1	What is a literature review	17	The paraphrasing & editing tool
2	Systematic review	18	Avoid plagiarism
3	Narrow the area of research	19	Reference management tool
4	Review biases	20	Writing a literature review
5	Identifying a research problem	21	A structured abstract
6	Finding keyword	22	Integrating arguments in paragraphs
7	Introduce "Research Tools" box	23	Verbs for referencing
8	Selecting keywords	24	Paper submission procedure
9	Finding proper articles	25	Author self-check
10	Evaluate a paper quality	26	Cover letter development
11	H-index and g-index	27	Acceptance procedure
12	Publish or Perish	28	Target suitable journal
13	Evaluate a journal quality	29	Promote your publication to get more citation
14	Impact factor- Journal ranking	30	H-index importance
15	Keeping up-to-date (Alert system)	31	Document-publishing tools
16	Indexing desktop search tool	32	Q&A and closing

## REGISTRATION

The deadline for registration is on **11 MAY 2017**.  
 Please visit <http://umconference.um.edu.my/ls> for registration.

## PAYMENT METHODS

### Cheque and Government Local Order

- ♦ Payment must be made by crossed A/C Payee cheques or Government Local Order and issue to:  
**BENDAHARI UNIVERSITI MALAYA (CIMB Account No: 80-0127999-8)**

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### Internal Money Transfer / Journal Transfer

- ♦ WBS No: UM.0000090/KWJ.AK  
 Account code: 76506  
 Account name: A/K AKTIVITI USPI (UNIT SOKONGAN PENERBITAN ILMIAH)-TNC(P&I)

Kindly email the proof of payment to [ppp\\_workshop@um.edu.my](mailto:ppp_workshop@um.edu.my) latest by 11 May 2017 to confirm your participation

For further enquiries kindly contact us at:

**Centre for Research Services (PPP)**  
 Institute of Research Management & Services (IPPP)  
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 Tel : 603-7967 6289 / 6942  
 Fax : 603-7967 6290  
 Email: [ppp\\_workshop@um.edu.my](mailto:ppp_workshop@um.edu.my)  
 Website: <http://umconference.um.edu.my/ls>  
<http://umresearch.um.edu.my>

For more details, please visit: <http://umconference.um.edu.my/ls>

## 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](http://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

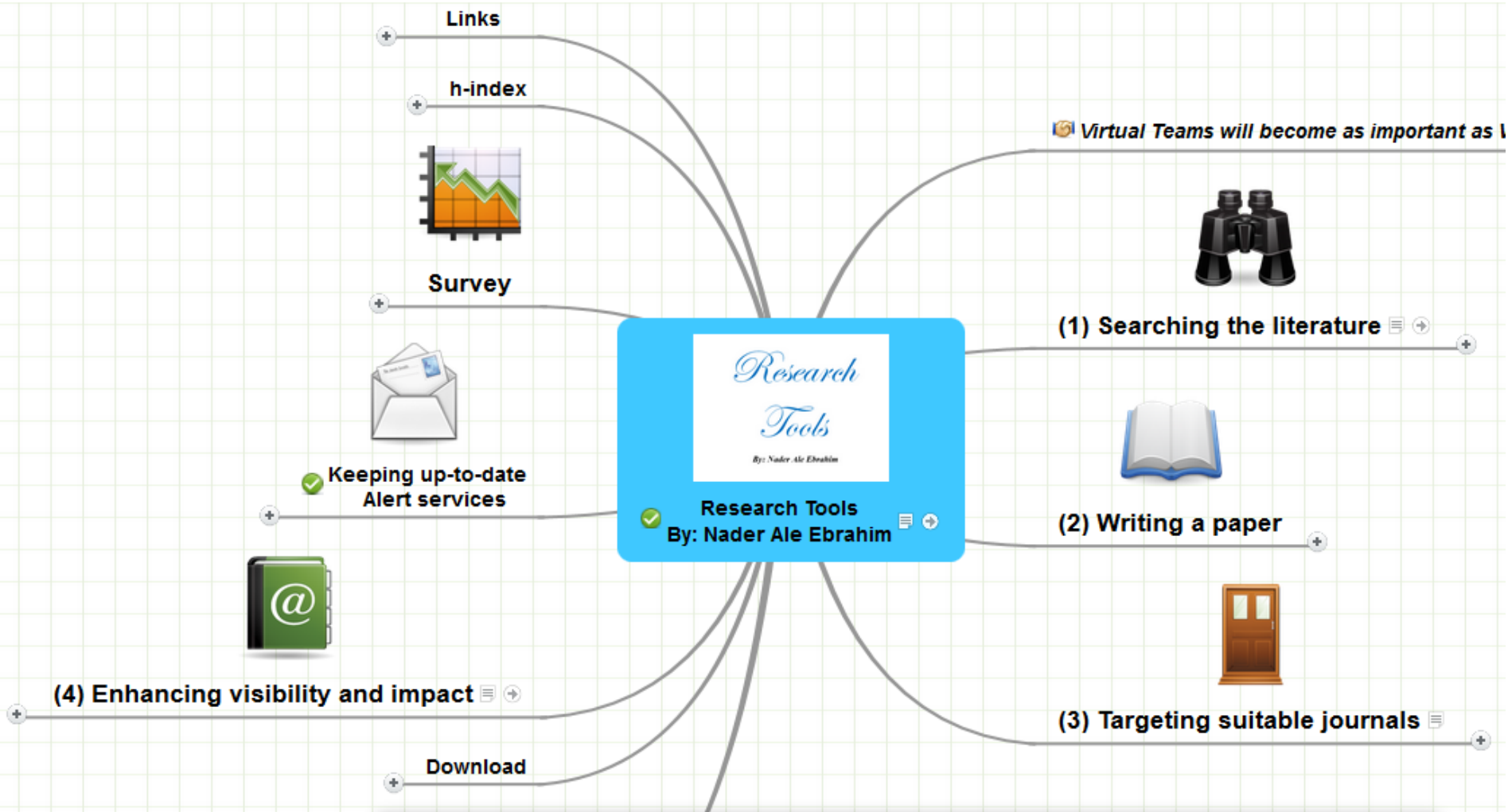
DATE	TIME	TOPIC
19 April 2017	9.00 a.m. – 12.00 p.m.	<b>Improving Research Visibility Part 1: Search Engine Optimization</b>
26 April 2017	9.00a.m. – 12.00 p.m.	<b>Improving Research Visibility Part 2: Pre/Post Prints Preparation</b>
3 May 2017	9.00a.m. – 12.00 p.m.	<b>Improving Research Visibility Part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

### CONTACT US

For further enquiries kindly contact us at:

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Email: [ppp\\_workshop@um.edu.my](mailto:ppp_workshop@um.edu.my)  
Website: <http://umconference.um.edu.my/ws>  
<http://umresearch.um.edu.my>

# Research Tools Mind Map



# Top 10 authors with the highest profile view counts on ResearchGate

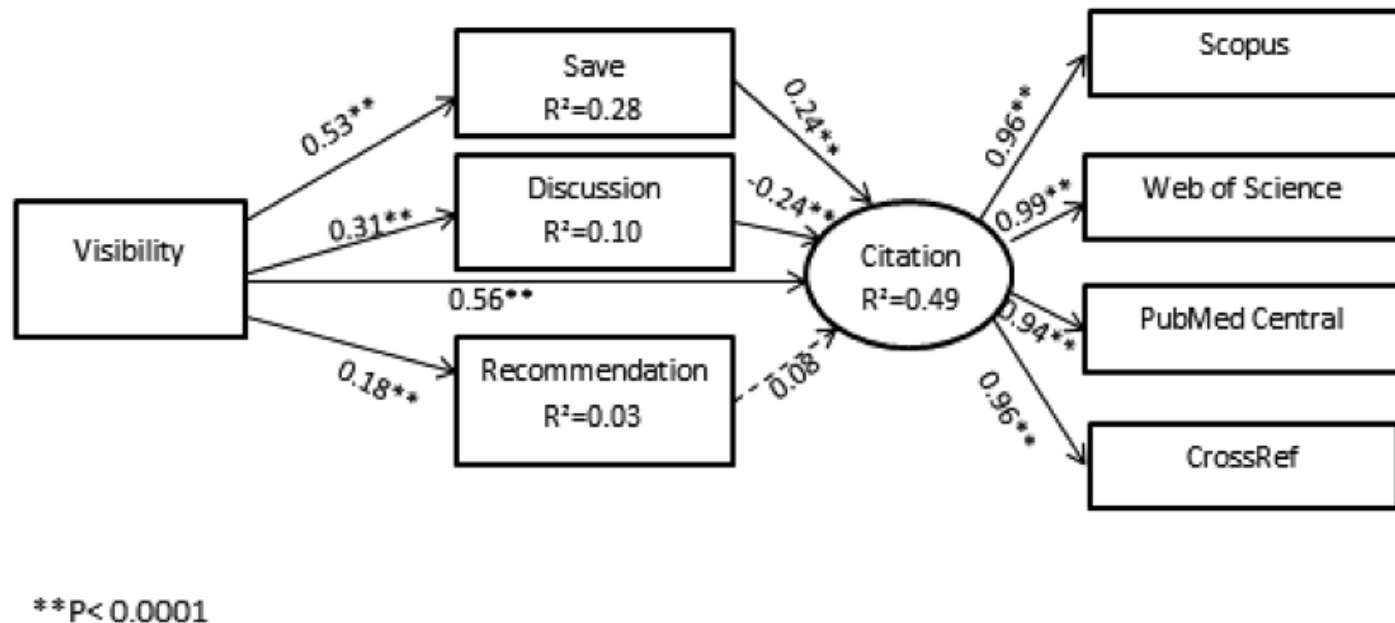
Table 11. Top 10 authors with the highest profile view counts on ResearchGate (9<sup>th</sup> of November, 2015), compared to the same indicator on the 10<sup>th</sup> of September, 2015.

AUTHOR NAME	SEPTEMBER 10 <sup>th</sup>	NOVEMBER 9 <sup>th</sup>	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

## Path analysis of the relationship between visibility and citation: the mediating roles of save, discussion, and recommendation metrics

Ale Ebrahim et al. (2014) believe that increased accessibility of an article through search engines can improve its citation rate.



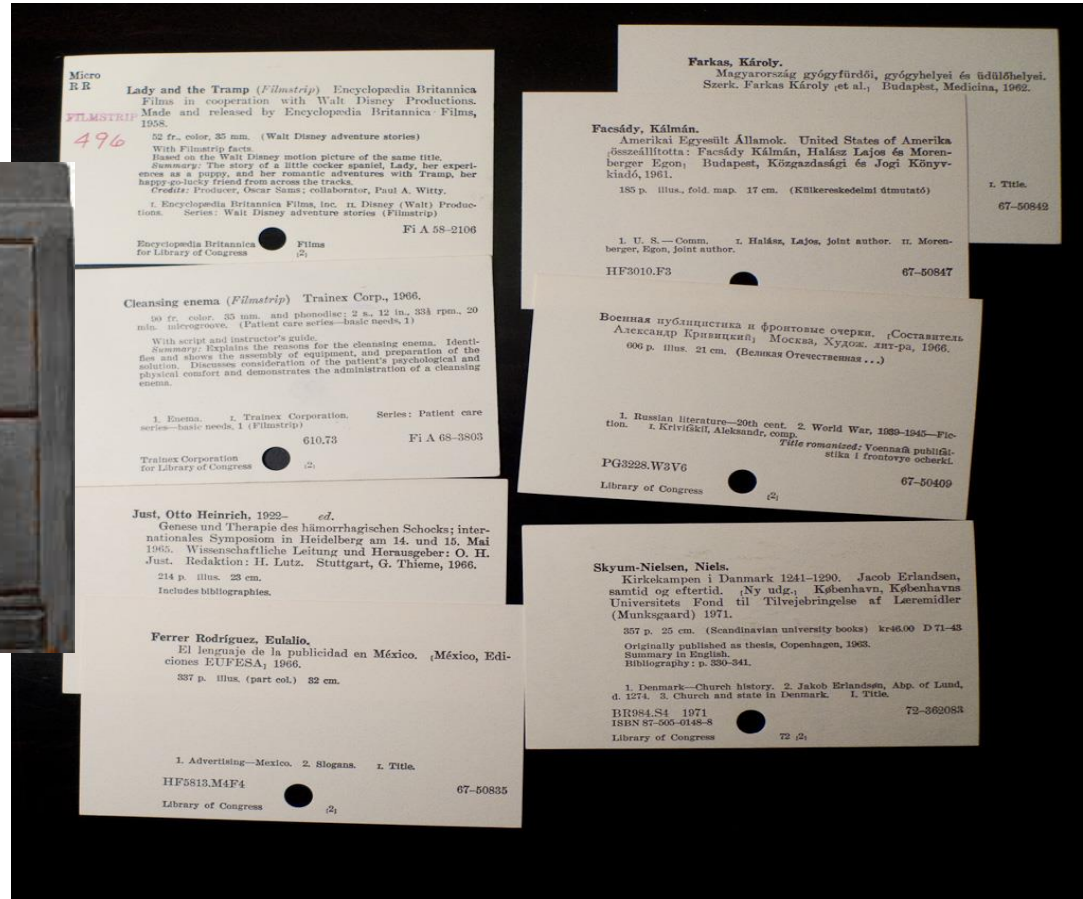
**Fig. 2** Testing the model for the impact of visibility on citation with save, discussion and recommendation as mediators

Source: Ebrahimi, S., Mehrad, J., Setareh, F., & Hosseinihari, M. (2016). Path analysis of the relationship between visibility and citation: the mediating roles of save, discussion, and recommendation metrics. *Scientometrics* 1-14. doi:10.1007/s11192-016-2130-z



# Traditional Search Facilities

## Card Catalog



# Today: Online

- Google searches
- Digitized print resources
- Scholars' webpages with reading lists
- Consulting a list of online library resources

Source: [http://www.accessdunia.com.my/home/access/public\\_html/wp-content/uploads/2013/11/Raising-the-impact-of-e-resources-discovery\\_GGShort.pptx](http://www.accessdunia.com.my/home/access/public_html/wp-content/uploads/2013/11/Raising-the-impact-of-e-resources-discovery_GGShort.pptx)

# Make sure your paper doesn't get lost in the crowd. Get your paper Optimized for Search Engines.

## Introduction to Virtual R&D Teams Model for New Product Development

Increased global competitions have urged small and medium enterprises (SMEs) to develop new products faster. Virtual research and development (R&D) teams in SMEs can offer a solution to speed up development of new product development (NPD). However, factors that affect the effectiveness of virtual teams for NPD are still not completely virtual. This book reviews the correlations between virtual R&D team constructs and virtual team effectiveness by developing a "Virtual Research and Development Team (VRSDT) Model". The terms, which may influence the effectiveness of virtual teams, are taken from the literature. Through an inductive method and by application of structural equation modeling (SEM) technique, the proposed model has been tested. The results suggest that the proposed construct is strongly correlated to the effectiveness of virtual teams. Therefore, NPD managers in virtual R&D teams should concentrate on the process of new product development rather than simply equipping the teams with the latest technology or employing highly qualified experts. Further empirical research is recommended to fully explore and appreciate the breadth of application of the VRSDT model.

## Technology Use in the Virtual R&D Team

## SMEs; Virtual R&D Teams and NPD: A Literature Review

Nader Ale Ebrahim

## Introduction to Virtual R&D Teams Model for New Product Development

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When writing a paper title, think about the visibility and consider the search terms people may use to locate information about your topic and include these words.



Nader Ale Ebrahim received his PhD Management from Faculty of Engineering, University of Malaysia. He holds MSc in Mechanical Engineering from the University of Tehran, Iran. His current research is on E-skills, Research Tools, Bibliometrics, Maximized research visibility, and virtual R&D teams in SMEs.

## Technology Use in the Virtual R&D Team

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Nader Ale Ebrahim received his PhD in Technology Management from Faculty of Engineering, University of Malaysia. He holds MSc in Mechanical Engineering from the University of Tehran, Iran. His current research interests focus on E-skills, Research Tools, Bibliometrics, Maximized research visibility, and managing virtual R&D teams in SMEs.

Nader Ale Ebrahim

## Introduction to Virtual R&D Teams Model for New Product Development

When submitting an article for publication, authors should consider how easily discoverable their research will be to their audience and enhance opportunities for citation.

Source: <http://guides.library.ucla.edu/seo>

## Introduction to Virtual R&D Teams Model for New Product Development

# What is SEO?

SEO stands for “search engine optimization.” It is the process of getting traffic from the “free,” “organic,” “editorial” or “natural” search results on search engines.

- All major search engines such as [Google](#), [Bing](#) and [Yahoo](#) have primary search results, where web pages and other content such as videos or local listings are shown and ranked based on what the search engine considers most relevant to users.

# What Is ASEO?

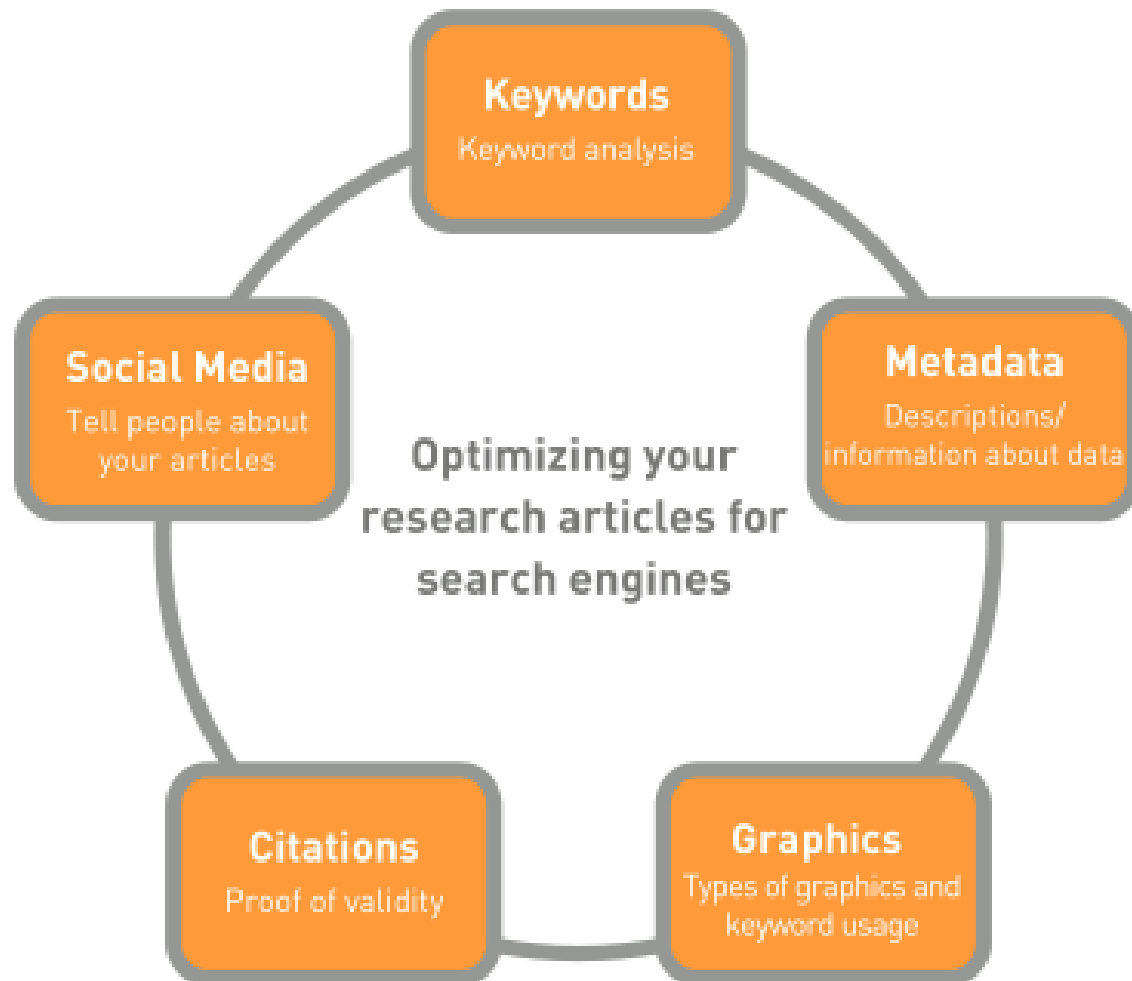
- **Academic Search Engine Optimization (ASEO)** is the process of transforming your research paper into one which is easily indexed and categorized by the search engines, and thereby more advantageously positioned to increase visibility and [citations](#).

ASEO should be a common procedure for researchers, similar to, for instance, selecting an appropriate journal for publication.

- ASEO should not be seen as a guide on how to cheat academic search engines. Rather, it is about helping academic search engines to understand the content of research papers and, thus, about how to make this content more widely and easily available.

Source: <http://medicalfuturist.com/academic-search-engine-optimization-in-google-scholar/>

# Get found — optimize your research articles for search engines



ELSEVIER

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Source: <https://www.elsevier.com/connect/get-found-optimize-your-research-articles-for-search-engines>

- **Write a good and short title for your article.** If you can use one or more keywords in the title while accurately describing the content of your article, then do it. Keep in mind the audience of your article and any academic keywords specific to your field to inform which keywords may be best to use.
- **In addition to the keywords tool from Google, check out Google Insights and Google Trends.** With the latter two, you can see the popularity of keywords over a period of time and by geographic location, which may or may not be relevant for you and to your article. Until now, Google offers the most tools for SEO.
- **Don't go overboard with using numerous top keywords in every location of your article.** You want to tastefully optimize your article without compromising the relevance and quality of your writing and research.
- **Using the most popular keyword tool may not always be best for you and your article.** After all, it is the most popular for a reason, partly because it is frequently used in documents by others. You can test this by doing your own search of the keyword and seeing how many search results are found. If it is an exorbitant amount of articles, you may want to choose another keyword that is also very relevant to your research topic.



# Top Tips to make Your Article

UCLA Library

## Discoverable

### 1. Find the Keywords and search phrase to optimize your document

- Think about the most important words that are relevant to the article.
- Consider looking up specific keywords on [Google Trends](#) or the [Google Adwords Keywords tool](#) to find out which search terms are popular.
- Try out your keywords in Google Scholar, etc. and if too many results are returned, it may be better to consider a keyword with less competition.

### 2. Make sure you have a SEO-friendly title for your article

- The title needs to be descriptive and must contain a key phrase related to your topic.
- Put your keywords within the first 65 characters of the title. Google Scholar considers the length of a title. In a search for the phrase 'SEO for Authors: A How-to Guide' would be ranked higher than one titled 'Search Engine Optimization (SEO) for Authors: Ranking Information and Publishing Tips'. Although in general titles should be fairly short, we suggest choosing a longer title if there are many relevant keywords.

### 3. Write your abstract using keywords, phrases and synonyms

- Include the keywords and phrases in your abstract that a researcher might search on to find your article. Provide additional relevant keywords and synonyms for those keywords as they relate to your article keeping in mind those keywords are also used by the abstracting and indexing services as a method to tag the research content.

Source: <http://guides.library.ucla.edu/seo>

# Top Tips to make Your Article

UCLA Library

## Discoverable

### 4. Stay consistent

- Refer to authors names and initials in a consistent manner throughout the paper and in the same way they've been referred to in the past online publications. If names are used inconsistently, search engines may not be able to id articles or citations correctly; as a consequence, citations may be assigned incorrectly, and articles will not be as highly ranked as they should be. For instance, Jöran, Joeran, and Joran are all correct spellings of the same name (given different transcription rules), but Google Scholar sees them as three different names. Obtain an [ORCID](#) and use it when submitting works to publishers to aid dissambiguation.

### 5. Use headings

- Headings for the various sections of your article tip off search engines to the structure and content of your article. Incorporate your keywords and phrases in these headings wherever it's appropriate.

### 6. Cite your own, or your co-authors, previous publications

- Academic search engines, and especially Google Scholar, assign *significant* weight to citation counts. Citations influence whether articles are indexed at all, and they also influence the ranking of articles. When referencing your own published work, it is important to include a link where that work can be downloaded . This helps readers to find your article and helps academic search engines to index the referenced articles' full text.

### 7. Text in figures and tables should be machine readable

- Vector graphics containing font based text should be used instead of rasterized images so it can be indexed by academic search engines. Graphics stored as JPEG, BMP, GIF, TIFF, or PNG files are not vector graphics.
- When documents are converted to PDF, all metadata should be correct (especially author and title). Some search engines use PDF metadata to identify the file or to display information about the article on the search engine results page.

# Help Readers Find Your Article

- **Repeat key phrases in the abstract while writing naturally**

Search engines look at the abstract page of your article, which is free for everyone to look at on SAGE Journals Online. Your abstract is not only the sales pitch that tempts the researcher into reading your article, it's also the information that gives a search engine all the data it needs to be able to find your article and rank it in the search results page.

Try to repeat the key descriptive phrases. Try to imagine the phrases a researcher might search for if your paper would be of interest to them. Google can detect abuse of this so don't overplay it, focus on just 3 or 4 key phrases in your abstract.

- **Get the title right**

Ensure the main key phrase for your topic is in your article title. Make sure your title is descriptive, unambiguous, accurate and reads well. Remember people search on key phrases not just single words eg 'women's health' not 'health'.

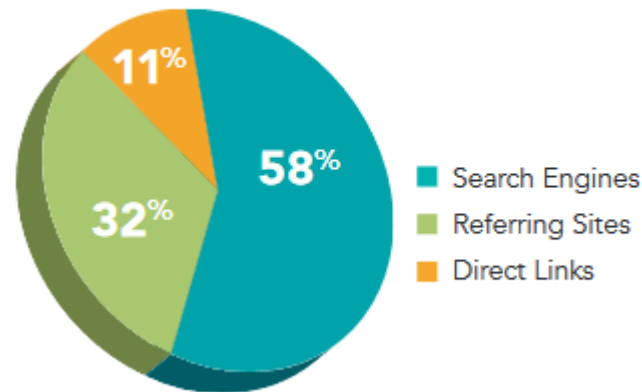
- **Choose your key words carefully**

Include your main 3 or 4 key phrases and add in at least 3 or 4 additional key words. Where more than one phrase (or abbreviation) is often used to describe the same thing, include both/all variants, e.g. drug names.



# Top Tips to Make Your Article Discoverable Online

Wiley Online Library Traffic Sources



- 1. Make sure you have an SEO-friendly title for your article**
- 2. Carefully craft your abstract using keywords, keywords, keywords**
- 3. Provide at least five keywords or phrases in the keywords field**
- 4. Stay consistent**
- 5. Use headings**
- 6. Cite your own, or your co-authors, previous publications**
- 7. Promoting your Article after Publication Using Internet and Social Media**

# Example of Well-Optimized Abstract

## Example of Well-Optimized Abstract

*Title includes and leads with important keywords*

### Ocean Acidification and Its Potential Effects on Marine Ecosystems

#### Keywords

ocean acidification, climate change; carbonate saturation state; seawater chemistry; marine ecosystems; anthropogenic CO<sub>2</sub> *Search term-style keywords provided*

#### Abstract

Ocean acidification is rapidly changing the carbonate system of the world oceans. Past mass extinction events have been linked to ocean acidification, and the current rate of change in seawater chemistry is unprecedented. Evidence suggests that these changes will have significant consequences for marine taxa, particularly those that build skeletons, shells, and tests of biogenic calcium carbonate. Potential changes in species distributions and abundances could propagate through multiple trophic levels of marine food webs, though research into the long-term ecosystem impacts of ocean acidification is in its infancy. This review attempts to provide a general synthesis of known and/or hypothesized biological and ecosystem responses to increasing ocean acidification. Marine taxa covered in this review include tropical reef-building corals, cold-water corals, crustose coralline algae, *Halimeda*, benthic mollusks, echinoderms, coccolithophores, foraminifera, pteropods, seagrasses, jellyfishes, and fishes. The risk of irreversible ecosystem changes due to ocean acidification should enlighten the ongoing CO<sub>2</sub> emissions debate and make it clear that the human dependence on fossil fuels must end quickly. Political will and significant large-scale investment in clean-energy technologies are essential if we are to avoid the most damaging effects of human-induced climate change, including ocean acidification.

*Search terms contextually repeated throughout abstract*

# Well-Optimized Abstract:

## **False** Remembering in the **Aged**

Researchers studying human **memory** have increasingly focused on **memory** accuracy in **aging** populations. In this article we briefly review the literature on **memory** accuracy in healthy older adults. The prevailing evidence indicates that, compared to younger adults, older adults exhibit both diminished **memory** accuracy and greater susceptibility to misinformation. In addition, older adults demonstrate high levels of confidence in their **false memories**. We suggest an explanatory framework for the high level of **false memories** observed in older adults, a framework based on the theory that consciously controlled uses of **memory** decline with **age**, making older adults more susceptible to **false memories** that rely on automatic processes. We also point to future research that may remedy such deficits in accuracy.

*This article appears on the first page of results in Google for **false+memory+aged**.*

Source: <http://authorservices.wiley.com/bauthor/seo.asp>

# Poorly Optimized Abstract:

## **False** *Remembering in the Senior Population*

Researchers studying human **memory** have increasingly focused on its accuracy in senior populations. In this article we briefly review the literature on such accuracy in healthy older adults. The prevailing evidence indicates that, compared to younger adults, older adults exhibit both diminished accuracy and greater susceptibility to misinformation. In addition, older adults demonstrate high levels of confidence in their **false memories**. We suggest an explanatory framework for the high levels observed in older adults, a framework based on the theory that consciously controlled uses of **memory** decline in later life, making older adults more susceptible to **false memories** that rely on automatic processes. We also point to future research that may remedy such deficits in accuracy.

Source: <http://authorservices.wiley.com/bauthor/seo.asp>

# More on SEO for publishing

- **Think about what someone might search on to find your article.** The phrase or first three or four words that first pop into your head may be what you should lead your article title with. A couple of good examples of optimized articles from Wiley's portfolio include: "Ocean Acidification and Its Potential Effects on Marine Ecosystems" and "Nanomaterials in the environment: Behavior, fate, bioavailability, and effects." You can see from both of these titles that the keywords lead the title and you can even hear the search terms in the titles.
- **Use a tool to help.** You can easily use Google's [Keyword Planner](#) or [RankChecker](#) (you'll have to sign up for a free registration for these) to find out which terms related to your article's subject matter are popular keywords or search terms.
- **Make sure the keywords you choose accurately reflect the content of your article.** This is a no-brainer, but you don't want to plug in keywords that have really strayed from your article's content. Remember those "natural connections" to your content I mentioned that Google is looking for when crawling webpages.
- **Use the keywords field to your advantage.** Make sure you use this field to your advantage when submitting your paper. You not only need your keywords from the article title and abstract, but also synonyms. Is there another name or acronym for a concept, study, compound, etc, that you're featuring in your research? Include it here!
- **Repeat keywords in your abstract in ways that make sense.** It's important to repeat your keywords in your article abstract of course but, once again, make sure they are still used in a way that achieves your primary objective, which should be to briefly communicate the content of your article.



# Manuscript preparation



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## 1. General guidelines

- Manuscripts are accepted in English. Any consistent spelling and punctuation styles may be used. Long quotations of 40 words or more should be indented without quotation marks.
- A typical manuscript will not exceed 8500 words including tables, references and captions. Manuscripts that greatly exceed this will be critically reviewed with respect to length. Authors should include a word count with their manuscript.
- Manuscripts should be compiled in the following order: title page; abstract; keywords; main text; acknowledgements; references; appendices (as appropriate); table(s) with caption(s) (on individual pages); figure caption(s) (as a list).
- [Abstracts](#) of 250 words are required for all manuscripts submitted.
- Each manuscript should have [keywords](#).
- ***Search engine optimization (SEO) is a means of making your article more visible to anyone who might be looking for it. Please consult our guidance [here](#).***

Source: <http://www.tandfonline.com/action/authorSubmission?journalCode=tsed20&page=instructions#.Vbgwmfkuwg4>

# Keywords

It is essential that authors, editors, and publishers make every effort to ensure articles are found online, quickly and accurately, ideally within the top three hits. The key to this is the appropriate use of keywords.

Source: <http://journalauthors.tandf.co.uk/preparation/writing.asp>

# Keywords

- **Recent evidence suggests that a strong correlation exists between online hits and subsequent citations for journal articles.** Search engines rank highly as starting points. Students are increasingly more likely to start their research by using Google Scholar™, rather than by the traditional starting point of Abstracting and Indexing resources.
- We know that the use of keywords helps to increase the chances of the article being located, and therefore **cited**.
- Many search engines have their own algorithms for ranking sites, some by ranking the relevance of content and links to the site from other websites. Some search engines use **metadata** or "meta-tagging" to assess relevant content. Most search engines, however, scan a page for keyword phrases, which gives emphasis to phrases in headings and/or repeated phrases. The number of other sites that link to a web page also indicates how that page is valued.
- **Authors should know the key phrases for their subject area.** Reference to an established common indexing standard in a particular discipline is a useful starting point - GeoRef, ERIC Thesaurus, PsycInfo, ChemWeb, and so on.
- Keyword terms may differ from the actual text used in the title and abstract, but should accurately reflect what the article is about. **Why not try searching for the keywords you have chosen, before you submit your article?** This will help you see how useful they are.

# Search engine optimization

- You need to ensure that search engines index your article, so that it comes up in a good position in the list of results when a reader enters keywords into a search engine. This makes it more likely that people will read your article. **A strong correlation exists between online hits and subsequent citations for journal articles.** We know that many readers start their research by using academic search engines such as Google Scholar™.
- **How do academic search engines work?**  
Many search engines have their own algorithms for ranking sites, some by ranking the relevance of content and links to the site from other websites. Some search engines use metadata or "meta-tagging" to assess relevant content. Most search engines, however, scan a page for keyword phrases, which gives emphasis to phrases in headings and/or repeated phrases. The number of other sites that link to a web page also indicates how that page is valued.

Please see the detailed guidelines provided by [Google Scholar here](#).

- **What can I do as an author or editor?**  
We know that the use of **keywords** helps to increase the chances of the article being located, and therefore cited. Which words in your article are the most important? **Put yourself in the position of a reader. Which words might they type in to a search engine if they were looking for something on your topic?** Authors should know the key phrases for their subject area. Reference to an established common indexing standard in a particular discipline is a useful starting point - GeoRef, ERIC Thesaurus, PsycInfo, ChemWeb, and so on. There is further guidance on [choosing keywords](#) above.

# Search engine optimization

- The **title** and **abstract** you provide are also very important for search engines. Some search engines will only index these two parts of your article. Your article title should be concise, accurate, and informative. The title should be specific and it should contain words that readers might be searching for. This will make it more likely that people will find and read your article. Remember that you are writing for people as well as search engines! And do not be tempted to over-optimize your article (as discussed in the first reference below). The title must reflect the content of your article; if it does not, readers will be confused or disappointed. The title must also be comprehensible to the general reader outside your field. Where possible avoid abbreviations, formulae, and numbers. The following should also usually be omitted: "Investigation of..."; "Study of..."; "More about..."; "...revisited".
- Think about how you can increase the number of people reading and citing your article ([see our detailed guidance here](#)), because the number of citations will influence where it appears in the rankings. Link to the article once it is published, for example, from your blog, via social networking sites, and from pages on your university website. ([Tips on promoting your article can be found here](#)).
- **Further reading**

Beel, J. and Gipp, B. (2010) [Academic search engine spam and Google Scholar's resilience against it](#), *The Journal of Electronic Publishing*, 13(3).

Beel, J., Gipp, B. and Wilde, E. (2010) [academic search engine optimization \(ASEO\): optimizing scholarly literature for Google Scholar and Co.](#), *Journal of Scholarly Publishing*, 41(2), pp. 176–190

**Papers are accepted based on novelty, importance and scientific merit. But once published, a well-crafted *title* and *abstract* can help your work be found.**

Source: <http://blogs.nature.com/naturejobs/2015/07/10/publishing-high-impact-papers-natures-way>

# Titles: be simple and specific

- Use active rather than passive verbs.
- Avoid words that don't add to the story such as: “on this”, “study”, and “investigation”.
- Be specific in delivering your message:
- Not every reader may know [what Akt and Foxo1 are](#), but the title is declarative and specific. “But don't be *too* specific”.
- When possible, avoid acronyms and other jargon, which renders the title opaque to readers not already conversant in the field.
- Avoid question marks: titles should present outcomes, without teasing the reader.
- Focus on what is novel in the work.
- Avoid complex, compound nouns. For example, the term “excess water-weight remover”.

Source: <http://blogs.nature.com/naturejobs/2015/07/10/publishing-high-impact-papers-natures-way>

# Strategies for Enhancing the Impact of Research

## Preparing for Publication

- Add the name of study in the title of all publications and use the same title/ name consistently.
- Assign keyword terms to the manuscript.
- Formulate a concise, well-constructed title and abstract. Include crucial keywords in the abstract.
- Publish your work in an open access journal.
- Consider the desired audience when choosing a journal for publication.

[Source: Washington University School of Medicine, St. Louis Missouri](#)

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Consider where you would like to appear – in other words, what is your niche?  
If someone searched for a topic, where would you like to appear?

# 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.

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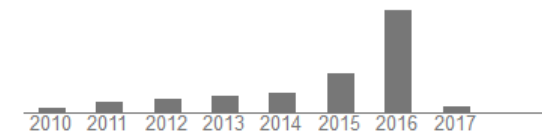
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# Tips to Select a Brand Name

- **Make it unique**
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- **Ensure you can repeat in your publication's title and abstract**
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- **Pick a brand name that everybody is curious to know more about.**
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# Select a unique phrase/keyword

*Select/make keyword or phrase* that is not already in the published literature. The keyword should capture the *unique* aspects of your work, which no predetermined subject terms can do.

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

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2. Ale Ebrahim, Nader. "[Optimize Your Article for Search Engine](#)." *University of Malaya Research Bulletin* 2.1 (2014): 38-39.
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4. Ebrahimi, S., Mehrad, J., Setareh, F., & Hosseinchari, M. (2016). Path analysis of the relationship between visibility and citation: the mediating roles of save, discussion, and recommendation metrics. *Scientometrics* 1-14. doi:10.1007/s11192-016-2130-z

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