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Improving Research Visibility Part 7: Measuring Research Impact

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www.researcherid.com/rid/C-2414-2009
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7th June 2017



All of my presentations are available online at:

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

Link to this presentation:

5th SERIES OF WORKSHOP ON:
***Strategies to Enhance Research
Visibility, Impact & Citations***

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=====
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Research Management & Innovation Complex
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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: Measuring research impact by utilizing different metrics, help you to see the bigger picture of your research publications influences. The reach of a publication can no longer be judged exclusively by the number of times it is cited. Because, we are now in the digital and sharing information age, academic conversations are as likely to be found on various academic social networks. So, we need new tools to measure the research impact. Altmetrics are new metrics proposed as alternatives to Impact Factor for journals and personal citation indexes like h-index. Altmetrics attempts to use the online activity to measure impact, buzz, word of mouth for scientific information and it includes new ways to measure usage at the citation level. In this workshop, I will explain about the application of different research metrics especially "alternative metrics" tools such as: Altmetric.com, Impactstory.org, Plumanalytics.com, and PLoS metrics.

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

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: **Neptune Meeting Room, Level 6, 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**

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WORKSHOP SERIES 5

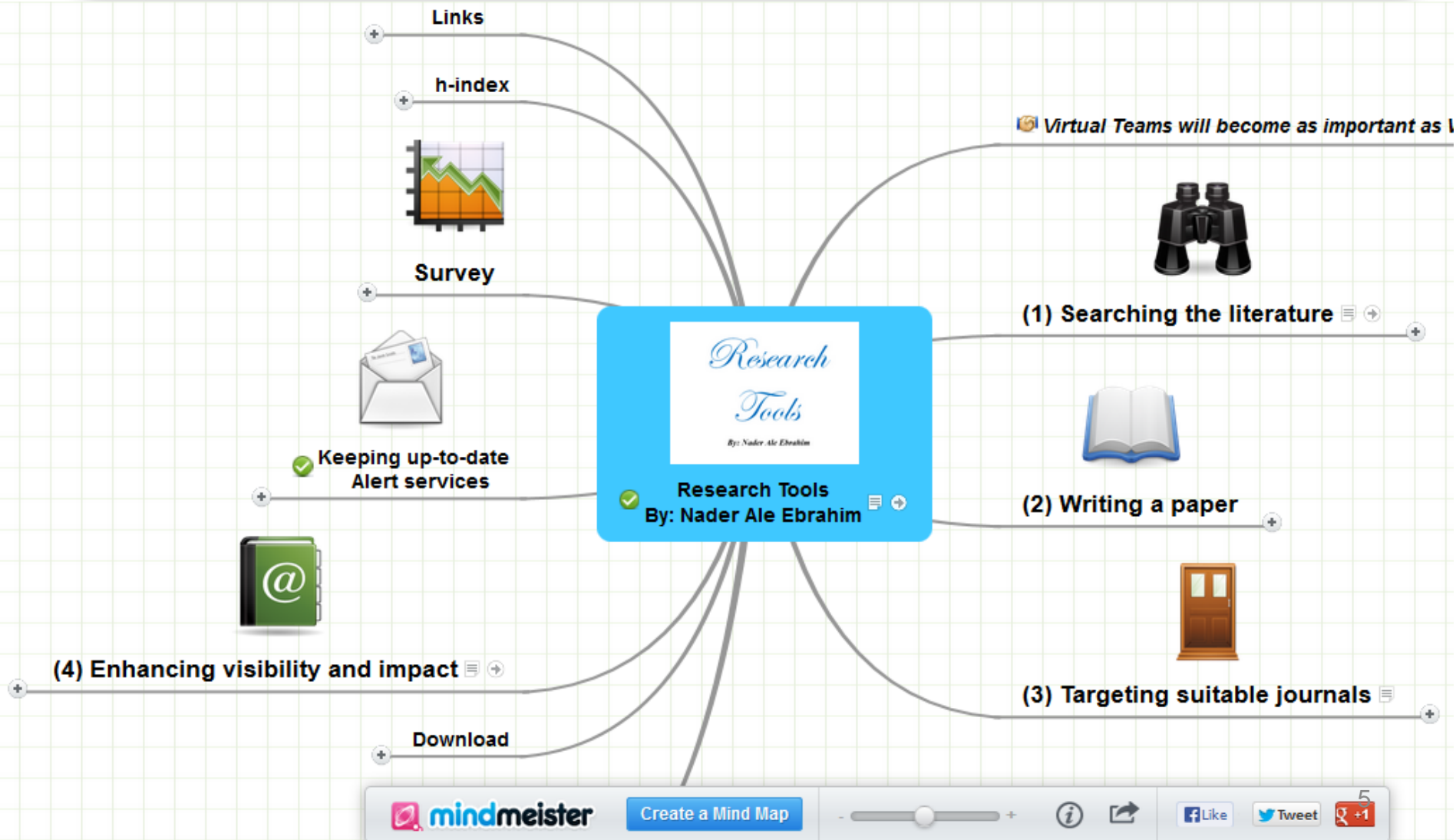
DATE	TIME	TOPIC
19 April 2017	9.00 a.m. — 12.00 p.m.	Improving Research Visibility Part 1: Search Engine Optimization
26 April 2017	9.00 a.m. — 12.00 p.m.	Improving Research Visibility Part 2: Pre/Post Prints Preparation
3 May 2017	9.00 a.m. — 12.00 p.m.	Improving Research Visibility Part 3: Online Profiles
17 May 2017	2.00 p.m. — 5.00 p.m.	Improving Research Visibility Part 4: Open Access Repositories
24 May 2017	2.00 p.m. — 5.00 p.m.	Improving Research Visibility Part 5: Blogging and Online Magazines
31 May 2017	2.00 p.m. — 5.00 p.m.	Improving Research Visibility Part 6: Academic Social Networking
7 June 2017	2.00 p.m. — 5.00 p.m.	Improving Research Visibility Part 7: Measuring Research Impact

CONTACT US

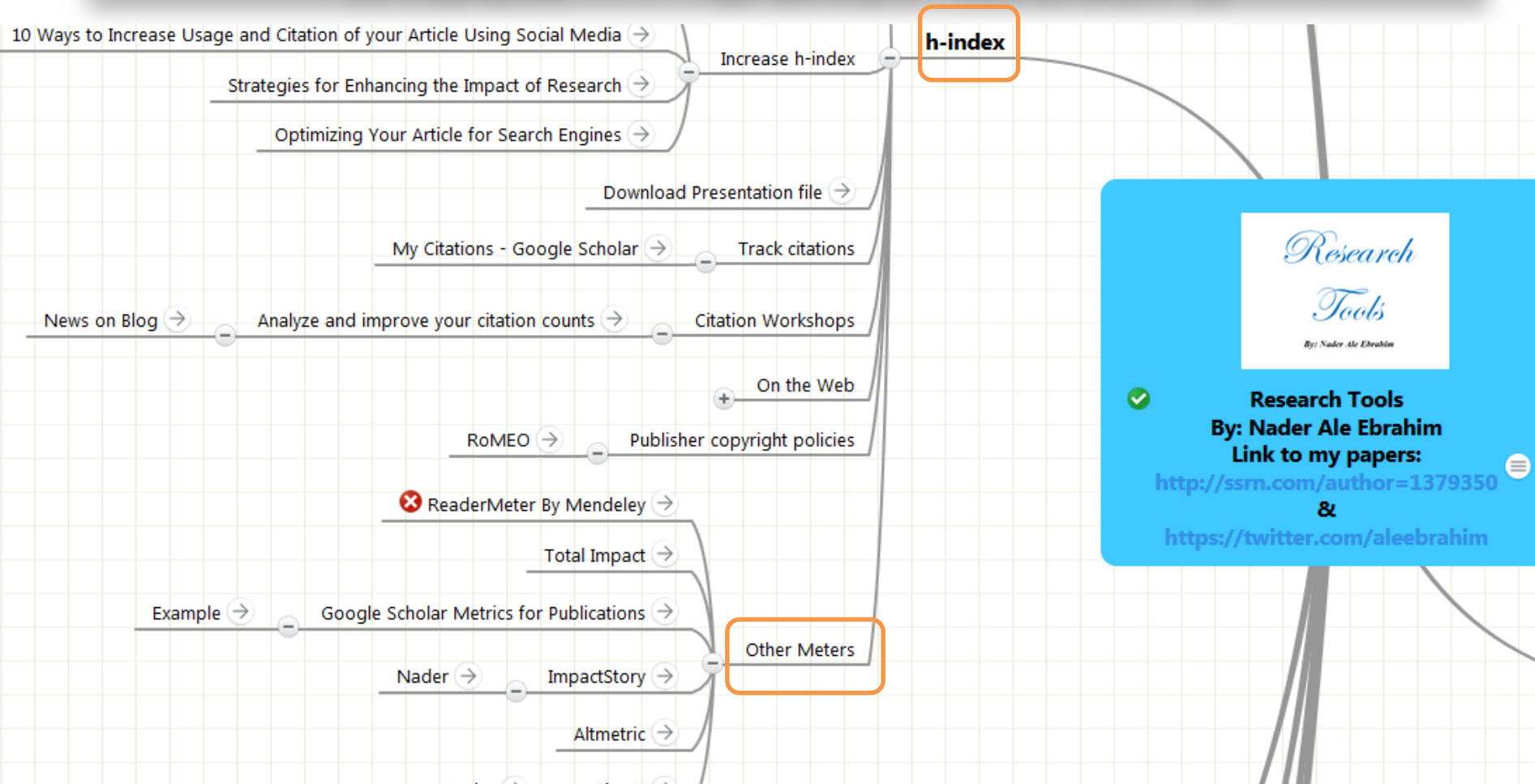
For further enquiries kindly contact us at:

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 Email: ppp_workshop@um.edu.my
 Website: <http://umconference.um.edu.my/ws>
<http://umresearch.um.edu.my>

Research Tools Mind Map



Research Tools Mind Map -> h-index -> Other Meters



What it's like being a researcher

What were your recent p
Where
publis
Are th
Acces
Is the
open t
How o
pay th
Was it
received

Where is your

Does it have an

ng
h!
r next

**WILL IT HAVE ANY
IMPACT?**

**Did it have any
impact?**

What did you do with the
grant income you received?
How did you cost your
overheads?

are you supervising?
**Does it have
any IMPACT?**

Research Impact Guide

Source: <http://subjectguides.library.unsw.edu.au/researchimpact>



Research Evaluation Metrics



United Nations
Educational, Scientific and
Cultural Organization

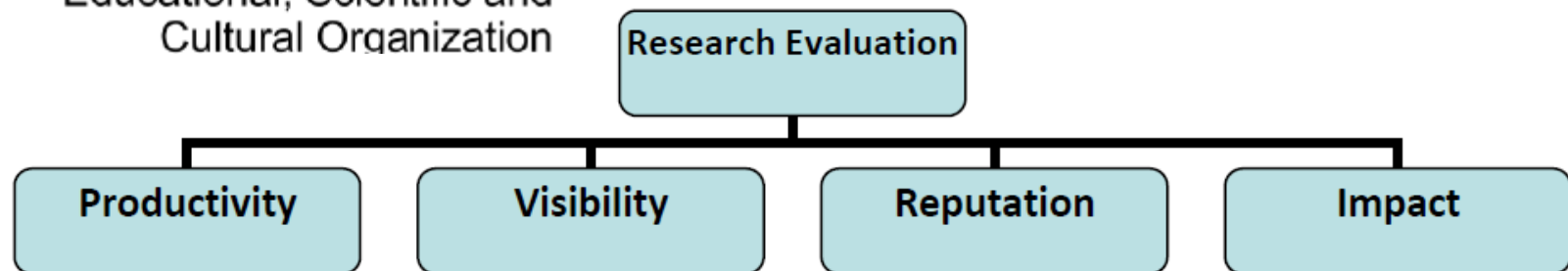


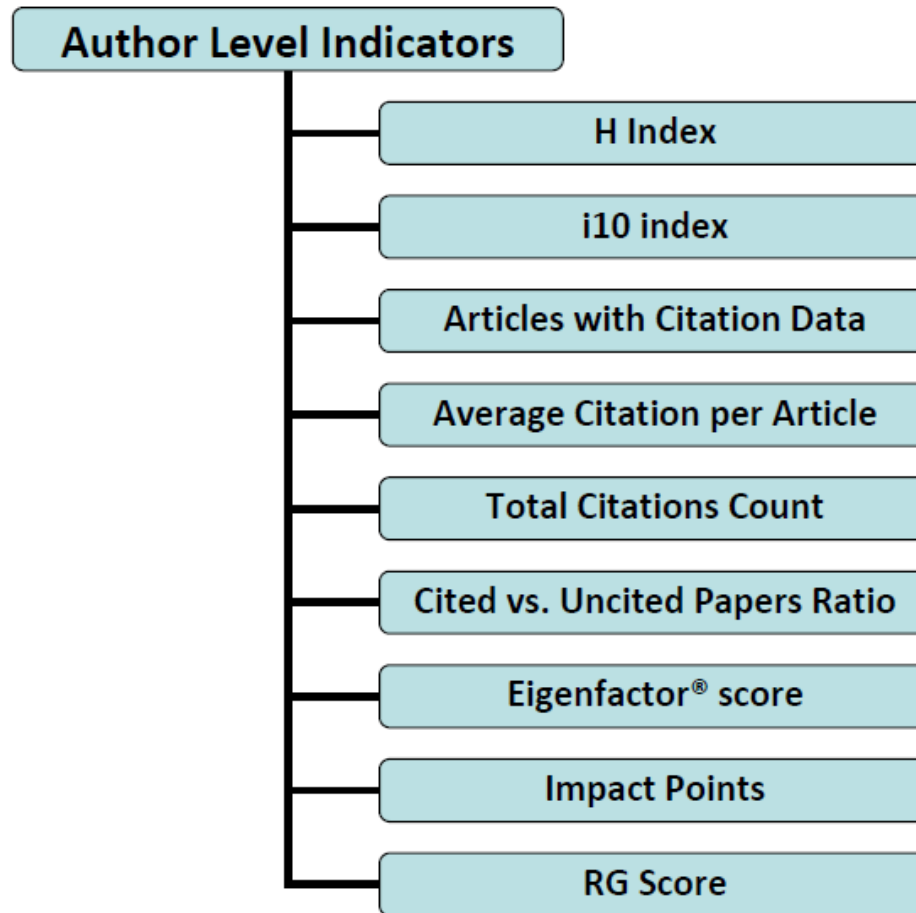
Figure 1: Dimensions of Research Evaluation

Source: Das, Anup Kumar . *Introduction to Research Evaluation Metrics and Related Indicators.*, 2015 In: Open Access for Researchers, Module 4: [Research Evaluation Metrics](#). UNESCO, Paris, pp. 1-18. [Book chapter]

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Conventional tools for measuring academic performance

Author Level Indicators



Source: Das, Anup Kumar . *Introduction to Research Evaluation Metrics and Related Indicators.*, 2015 In: Open Access for Researchers, Module 4: [Research Evaluation Metrics](#). UNESCO, Paris, pp. 1-18. [Book chapter]

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H and g-index

A scientist has index h if h of his/her N_p papers have at least h citations each, and the other (N_p-h) papers have no more than h citations each.

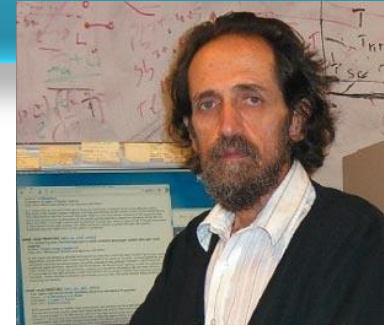
As an example, a researcher with an H-index of 15 has (of their total number of publications) 15 papers which have been cited at least 15 times each.

Researcher A		Researcher B	
Paper rank	Citations	Paper rank	Citations
1	10	1	1348
2	8	2	159
3	6	3	50
4	5	4	4
5	4	5	4
6	0	6	3

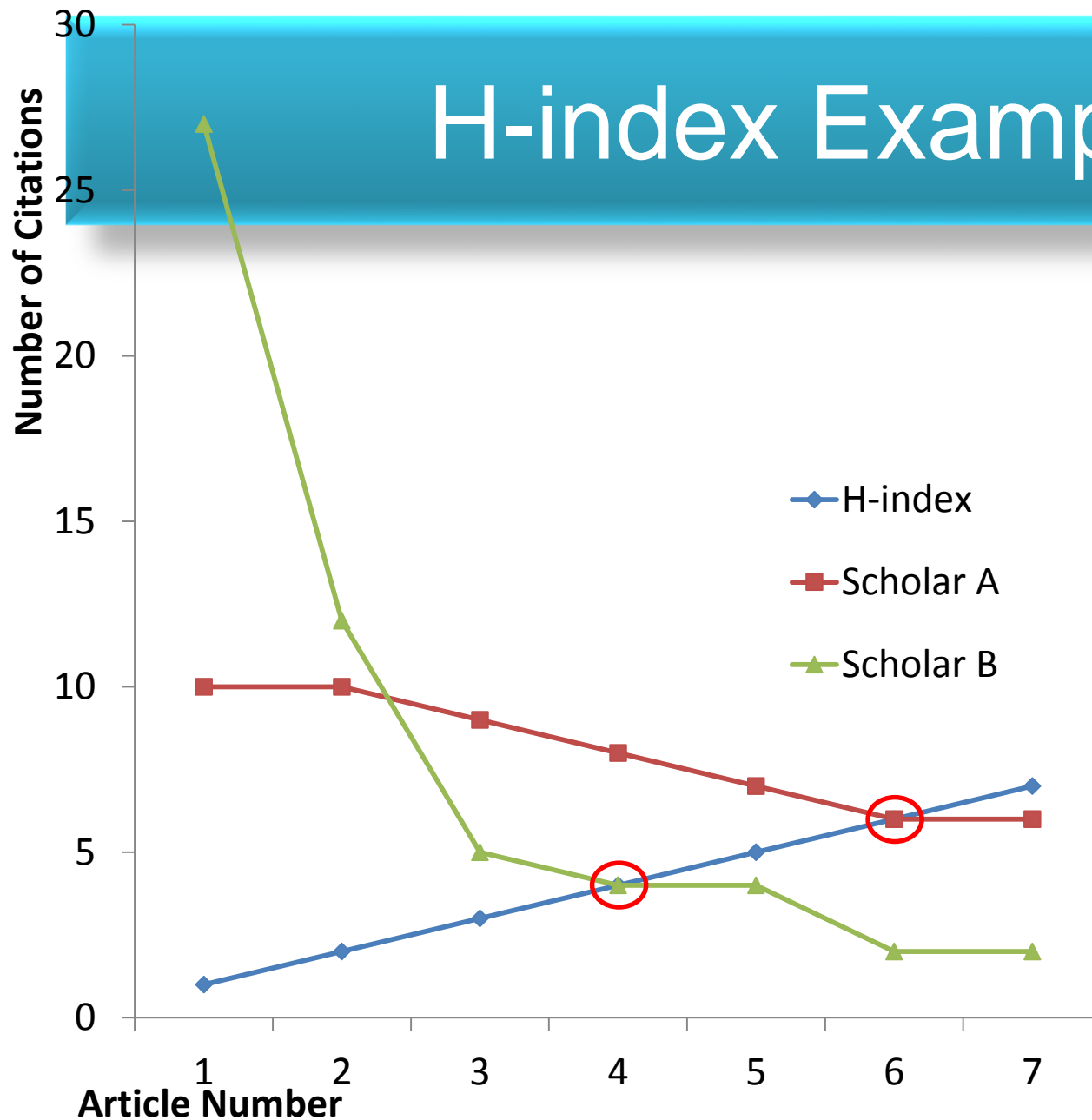
Neither researcher can have an H-index of more than 6.

Source: <http://guides.is.uwa.edu.au/content.php?pid=372347&sid=3050052>

H-index Example



Jorge E. Hirsch



Scholar A	Scholar B
10	27
10	12
9	5
8	4
7	4
6	2
6	2
56 citations	56 citations
6 h-index	4 h-index

h-index importance

“Hirsch, who has a *h*-index of 49, says that a "**successful scientist**" will have an index of 20 after 20 years; an "**outstanding scientist**" will have an index of 40 after 20 years; and a "**truly unique individual**" will have an index of 60 after 20 years.”

Source: Ball, P. (2005). [Index aims for fair ranking of scientists](#). *Nature* 436(7053), 900-900.

Table 2: Publication and citation list of scientist S1

Rank (squared) - Publications	Citations	Sum
1 (1) A	20	20
2 (4) B	10	30
3 (9) C	9	39
4 (16) D	8	47
5 (25) E	6	53
6 (36) F	6	59
7 (49) G	6	65
8 (64) H	5	70
9 (81) I	5	75

Source: [Rousseau, Ronald. "New developments related to the Hirsch index." \(2006\).](#)

Normalized citation metrics put citation information in context

Citation rates vary among fields. What is good or average in mathematics is very different from what is good or average in biochemistry.



23.3 cites/paper
H-index: 13



14.5 cites/paper
H-index: 7



9.8 cites/paper
H-index: 7



4.2 cites/paper
H-index: 3

How “good” is this? What is the context?

Additional metrics are needed to understand research performance.

Source: Ann Kushmerick (May 3, 2013), [Bibliometric Analysis Tools for Research Portfolio Analysis and Management](#), Manager, Research Evaluation and Bibliometric Data

All three publication lists have a Hirsch Index of 5

Author 1

Author 2

Author 3

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

30	P1
10	P2
8	P3
6	P4
5	P5

1	P6
0	P7

30	P1
10	P2
8	P3
6	P4
5	P5

4	P6
4	P7
4	P8
4	P9

100	P1
70	P2
8	P3
6	P4
5	P5

1	P6
0	P7

H=? 5

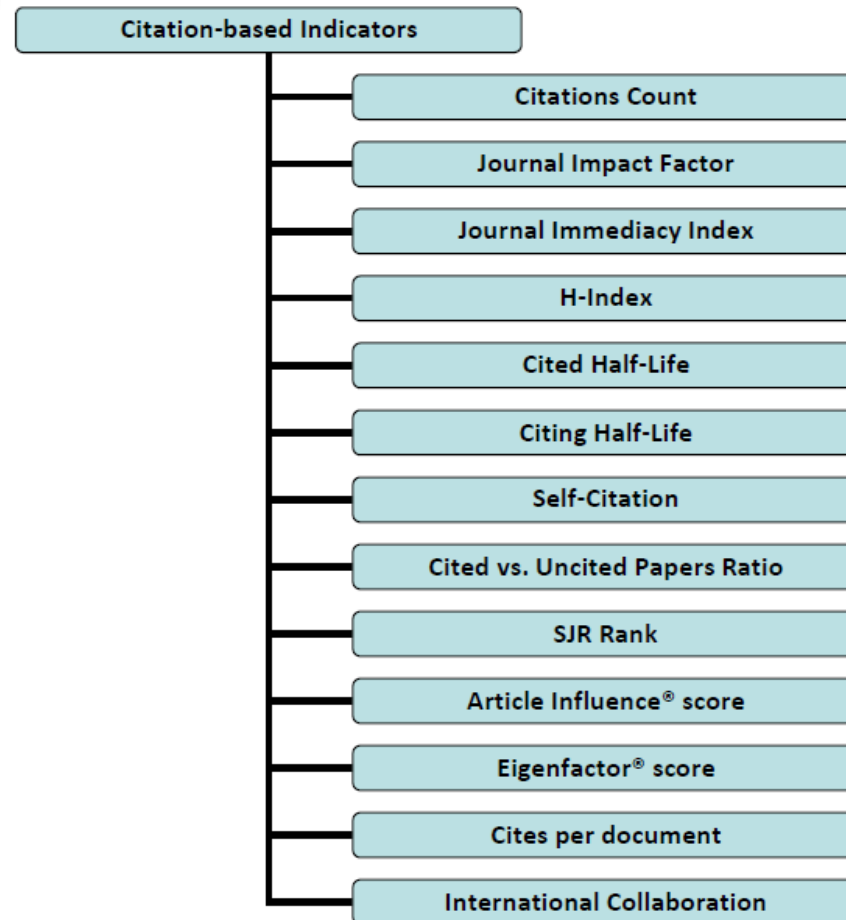
H=? 5

H=? 5

Different bibliometric distributions have the same H-Index

Source: Henk F. Moed, (2011) "[New developments in electronic publishing and bibliometrics](#)", CWTS, Leiden University, Netherlands & Elsevier, Amsterdam, Netherlands

Most Useful Citation-based Indicators



Source: Das, Anup Kumar . *Introduction to Research Evaluation Metrics and Related Indicators.*, 2015 In: Open Access for Researchers, Module 4: [Research Evaluation Metrics](#). UNESCO, Paris, pp. 1-18. [Book chapter]

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CiteScore

CiteScore 2015 methodology



CiteScore 2015 counts the citations received in 2015 to documents published in 2012, 2013 or 2014, and divides this by the number of documents published in 2012, 2013 and 2014.



3-year publication window

The 3-year CiteScore time window was chosen as a best fit for all subject areas. Research shows that a 3-year publication window is long enough to capture the citation peak of the majority of disciplines.

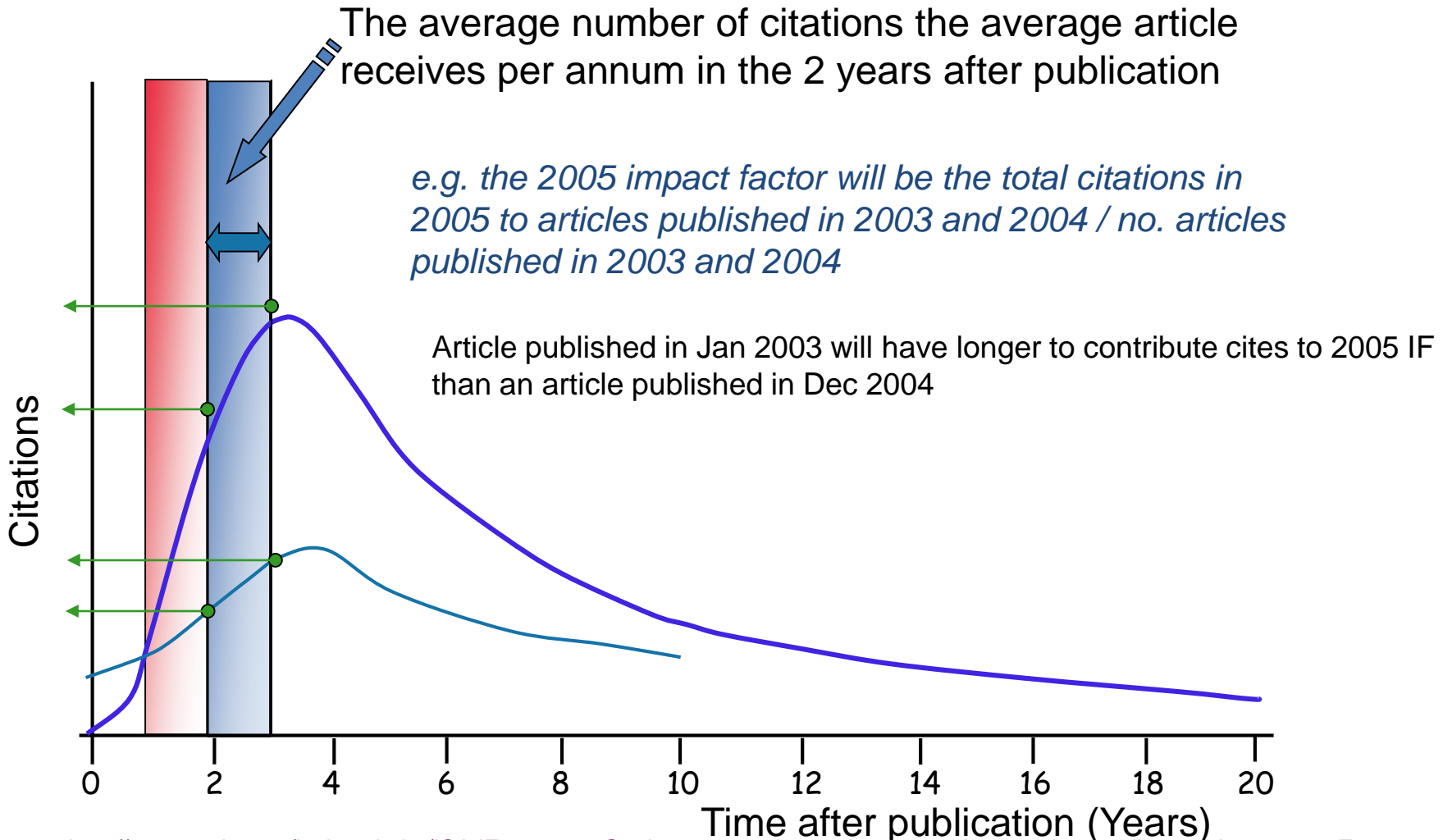
Frequency

	CiteScore	CiteScore Tracker (on Scopus.com)
Calculated	Annually	12 times per year
Updates	None	Monthly

Document types

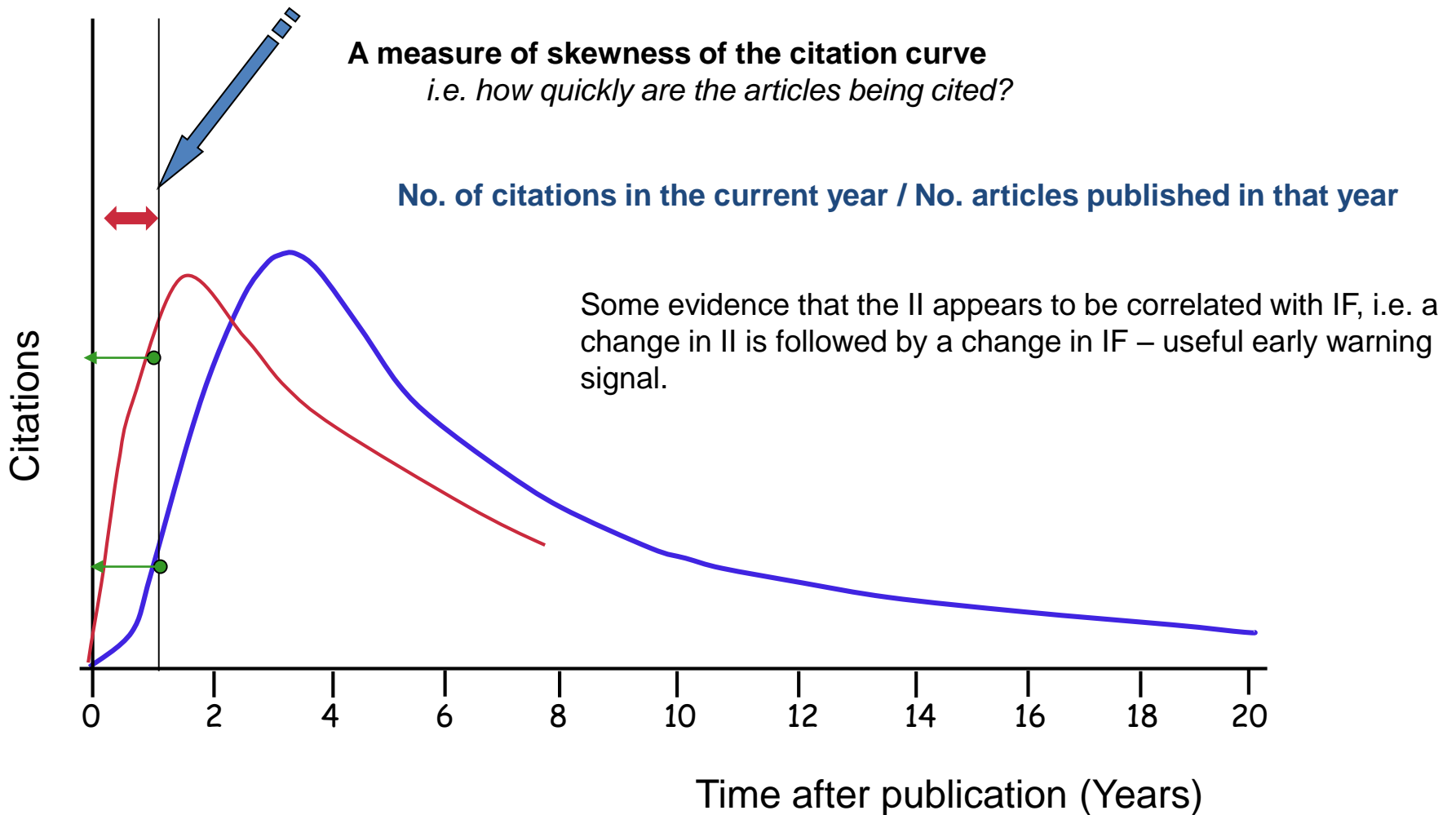
All types of documents (research articles, review articles, conference proceedings, editorials errata, letters, notes, and short surveys) are included in the CiteScore calculation. Although articles in press are included in Scopus they are not included in the calculation.

The Impact Factor



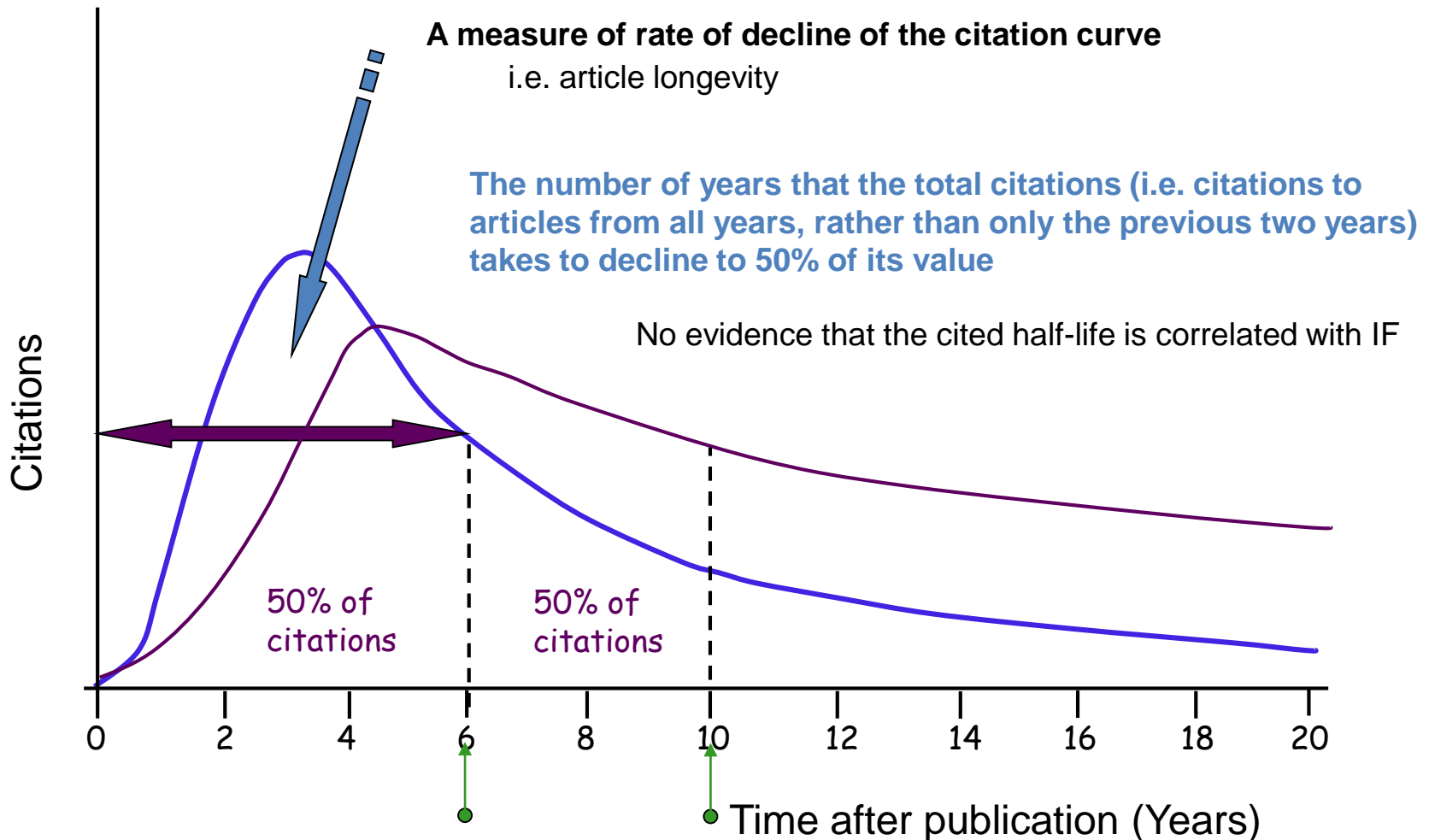
Source: <http://www.parint.org/isajewebsite/ISAJE2006%20Getting%20%20improving%20and%20understanding%20Impact%20Factors.ppt>

The Immediacy Index



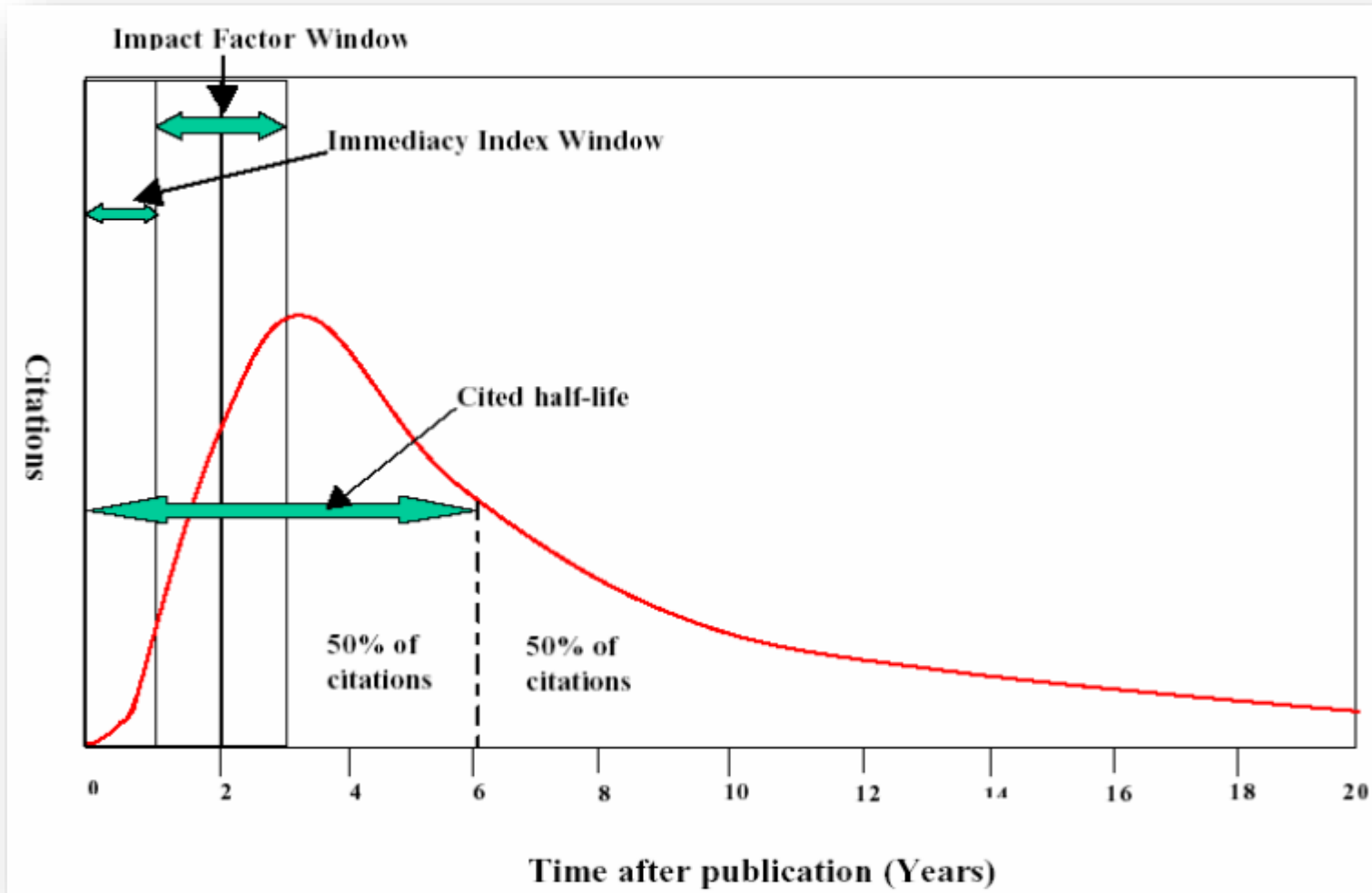
Source: <http://www.parint.org/isajewebsite/ISAJE2006%20Getting%20%20improving%20and%20understanding%20Impact%20Factors.ppt>

The Cited Half-Life



Source: <http://www.parint.org/isajewebsite/ISAJE2006%20Getting%20%20improving%20and%20understanding%20Impact%20Factors.ppt>

Impact Factor and other bibliometric parameters





SCOPUS SNIP

- The Source Normalized Impact per Paper (SNIP) measures contextual citation impact by weighting citations based on the total number of citations in a subject field. The impact of a single citation is given higher value in subject areas where citations are less likely, and vice versa.
 - Measures contextual citation impact by "normalizing" citation values;
 - Takes a research field's citation frequency into account;
 - Considers immediacy – how quickly a paper is likely to have an impact in a given field;
 - Accounts for how well the field is covered by the underlying database;
 - Calculates without use of a journal's subject classification to avoid delimitation;
 - Counters any potential for editorial manipulation.
- Source: [SCOPUS](#) ©2017-2018 Nader Ale Ebrahim

- The SCImago Journal Rank (SJR) is a prestige metric based on the idea that "all citations are not created equal". With SJR, the subject field, quality and reputation of the journal has a direct effect on the value of a citation.
 - Is weighted by the prestige of the journal, thereby "leveling the playing field" among journals;
 - Eliminates manipulation: raise the SJR ranking by being published in more reputable journals;
 - "Shares" a journal's prestige equally over the total number of citations in that journal;
 - Normalizes for differences in citation behavior between subject fields.
- Source: [SCOPUS](#)



Google Scholar Metrics

- The h-index of a publication is the largest number h such that at least h articles in that publication were cited at least h times each. For example, a publication with five articles cited by, respectively, 17, 9, 6, 3, and 2, has the h-index of 3.
- The h5-index of a publication is, respectively, the h-index, of only those of its articles that were published in the last five complete calendar years.
- Source: [Google Scholar](#)

New tools for measuring academic performance

<https://dx.doi.org/10.6084/m9.figshare.3984216.v1>

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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

QUICK GUIDE: HOW TO INCREASE THE VISIBILITY AND ACADEMIC IMPACT OF YOUR RESEARCH

5.2 Use social media tools

There are several social networking sites designed for academics. They provide a forum for disseminating your research, promoting discussion of your work, sharing scientific information and forming new collaborations. Social networks are a good supplement for your institutional/personal web site or blog as they allow you to quickly communicate to your network that e.g. a new article has been published. You can communicate information about your research via [ResearchGate](#), [Academia.edu](#), [Twitter](#), [Facebook](#) or [LinkedIn](#). Being a micro-blogging service that uses short 140-character messages (tweets), Twitter is a quick and easy to use tool for sharing information about research, engaging in conversations with others and sharing links to your papers and presentations. Creating profiles on one or more of these sites make you and your research more discoverable. Sign up for social networking sites to increase your visibility and connect with your colleagues!

Source: <http://www.harzing.com/download/impactguide.pdf>





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GENERAL INFO

ON CAMPUS

Citations & Tweets: Tech-Savvy Research Impact Measurements

By Erica Bogese

October 30, 2015



It used to be that scholars shared their research primarily at academic conferences/symposiums or in academic journals/books. But now in the digital age, academic conversations are as likely to be found on Twitter or Facebook.

PROFILE

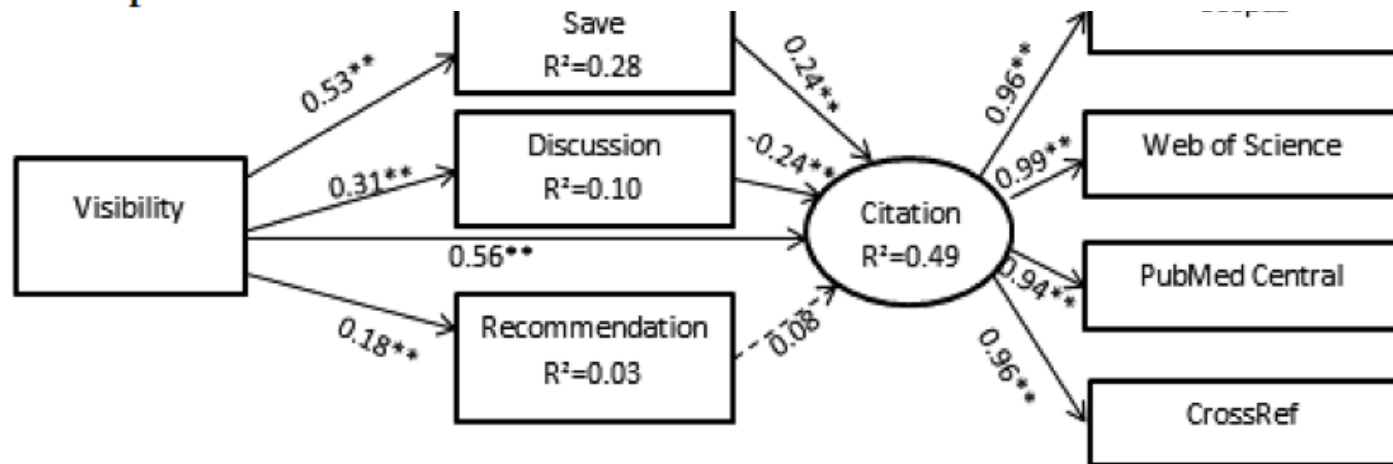
Rachel Borchardt

ON CAMPUS



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.



**P< 0.0001

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

Impact


usage
downloads
views


peer-review
expert opinion


citations


alt-metrics
storage
links
bookmarks
conversations

Source: <http://altmetrics.org/manifesto/>

Problems with citation-based indicators



Problem 1: **Time**

Problem 2: **Journals**

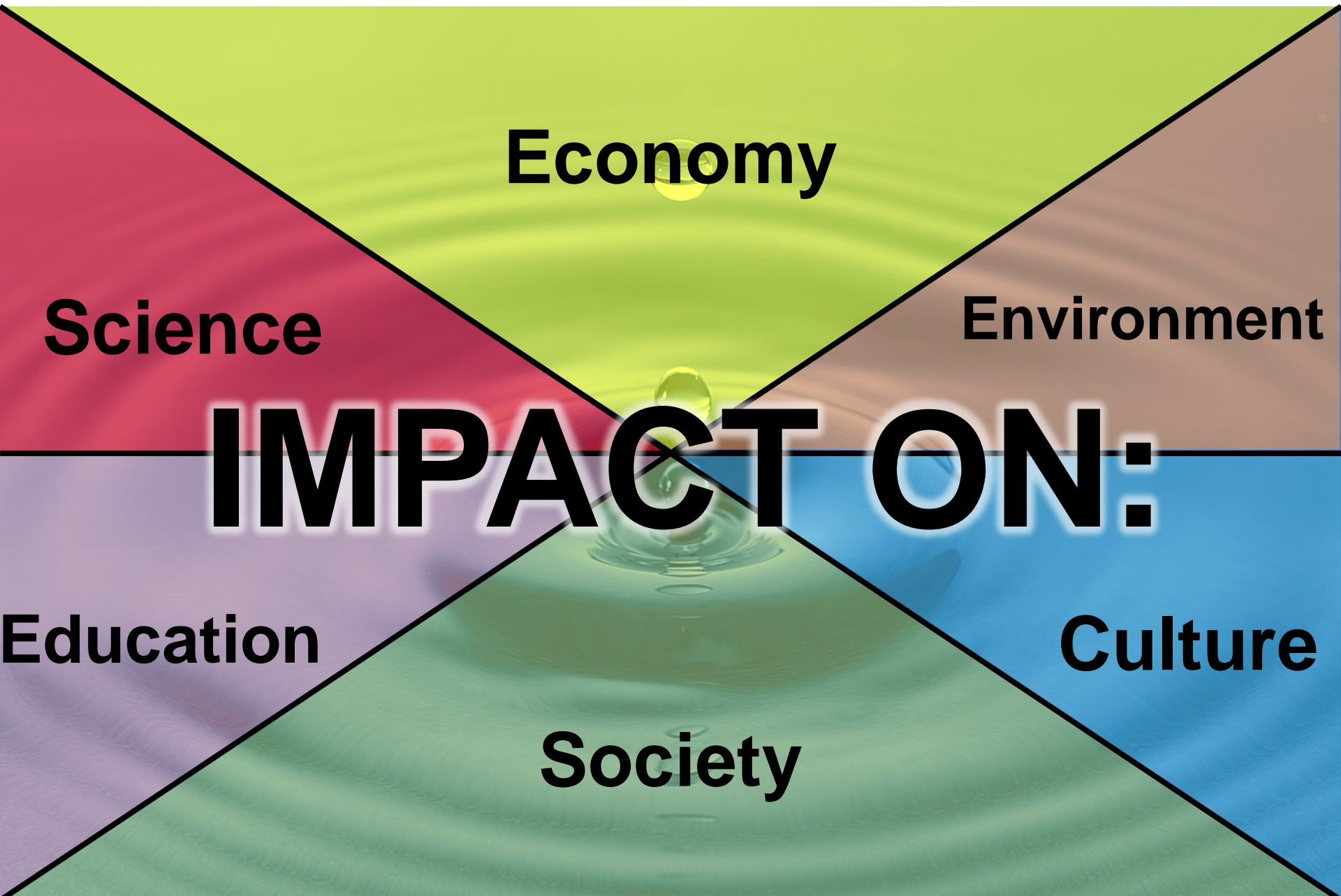
Problem 3: **Impact**





Science

IMPACT ON:



Altmetrics

**Created by
researchers**

**Created by
the public**

Altmetrics

**Created by
researchers**

Indicating
future
scientific
impact?

Altmetrics



Indicating other **types** of impact, such as societal impact?

Created by the public

How is the Altmetric score calculated?

The score is a weighted count

The score is derived from an automated algorithm, and represents a weighted count of the amount of attention we've picked up for a research output. Why is it weighted? To reflect the relative reach of each type of source. It's easy to imagine that the average newspaper story is more likely to bring attention to the research output than the average tweet. This is reflected in the default weightings:

News	8
Blogs	5
Twitter	1
Facebook	0.25
Sina Weibo	1
Wikipedia	3
Policy Documents (per source)	3
Q&A	0.25
F1000/Publons/Pubpeer	1
YouTube	0.25
Reddit/Pinterest	0.25
LinkedIn	0.5

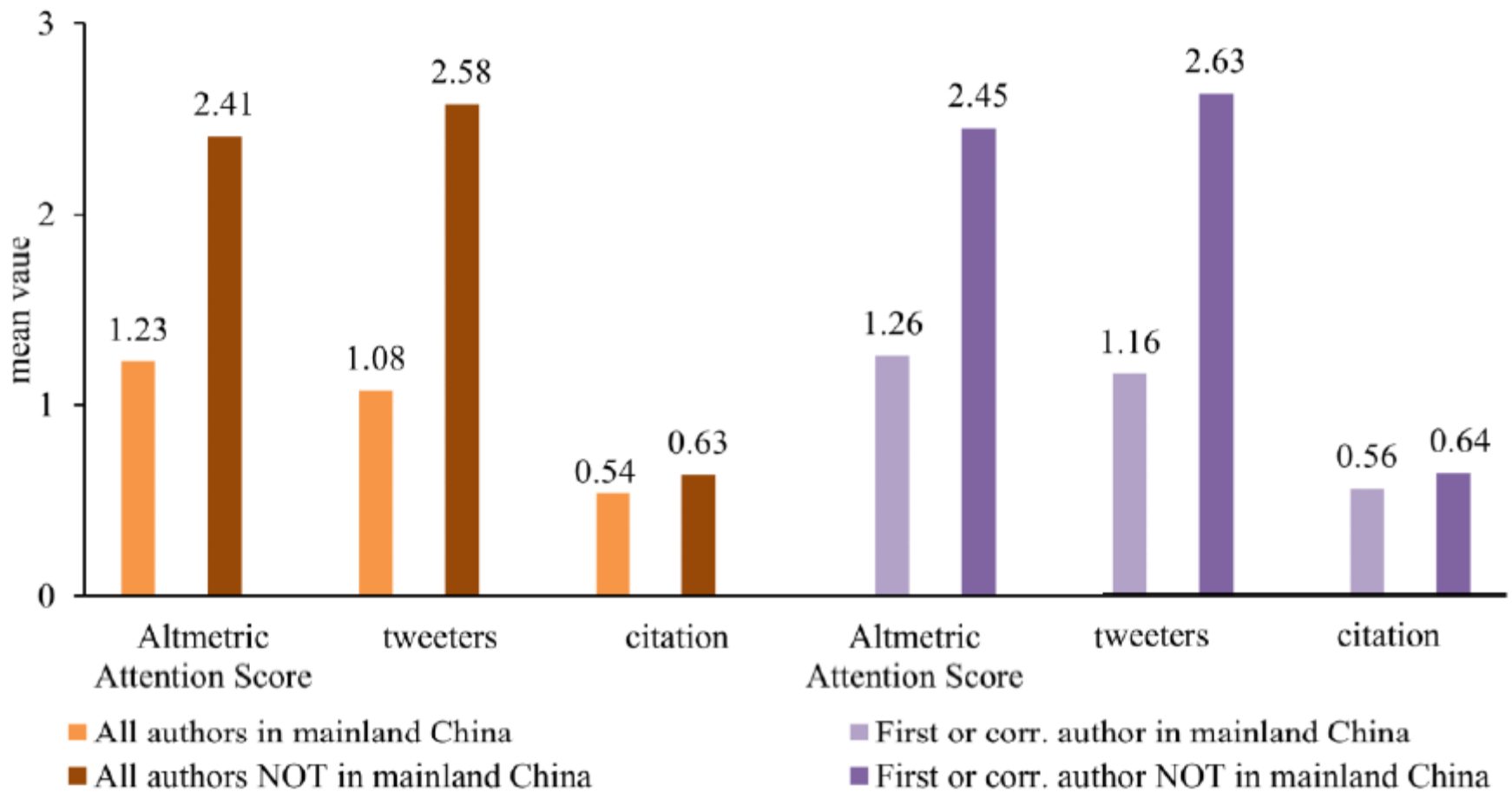


Figure 1. Comparison of mean Altmetric Attention Scores and tweeters

Source: Wang, Xianwen, et al. "The poor altmetric performance of publications authored by researchers in mainland China." *arXiv preprint arXiv:1610.07424* (2016).

“Alternative Metrics” Tools

- Altmetric.com
- Impactstory.org
- Plumanalytics.com
- PLoS Article-Level Metrics
- Usage Count (webofknowledge.com)
- Bookmetrix (<http://www.bookmetrix.com>)
- Article Metrics in Scopus



ImpactStory.



Altmetrics

- Altmetrics are new metrics proposed as alternatives to Impact Factor for journals and personal citation indexes like h-index. The term "article level metrics" was first put forward in 2010, but altmetrics (derived from "alternative metrics") become prevalent as it better suggested a range of new metrics. Altmetrics can be applied not only to articles but also to people, journals, books, data sets, web pages, etc. Many aspects of the impact of a work (such as article views, downloads, mentions in social media and new services) can be measured, as well as traditional citation counts.

Major trends in knowledge management research: a bibliometric study

Hi there!

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Major trends in knowledge management research: a bibliometric study

<http://www.altmetric.com/details/6592628>

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You're receiving this email because you opted to track mentions of one or more articles by email. [Click here](#) to unsubscribe and we won't contact you again.

Any other questions, comments or suggestions? You can reach us directly at support@altmetric.com

A Comprehensive Comparison of Educational Growth within Four Different Developing Countries between 1990 and 2012



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Capa > v. 6, n. 3 (2015) > Shakiba

A Comprehensive Comparison of Educational Growth within Four Different Developing Countries between 1990 and 2012

Masoud Shakiba, Nader Ale Ebrahim, Mahmoud Danaee, Kaveh Bakhtiyari, Elankovan Sundararajan

Resumo



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Major trends in knowledge management research: a bibliometric study

Article
Scientometrics
pp 1-16
First online: 07 April 2016

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Article Metrics

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Evaluating the academic trend of RFID technology based on SCI and SSCI publications from 2001 to 2014

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Scientometrics

October 2016, Volume 109, [Issue 1](#), pp 591–614

Evaluating the academic trend of RFID technology based on SCI and SSCI publications from 2001 to 2014

Authors

[Authors and affiliations](#)

Masoud Shakiba , Azam Zavvari, Nader Alebrahim, Mandeep Jit Singh

Article

First Online: 08 August 2016

Cite this article as:

Shakiba, M., Zavvari, A., Alebrahim, N. et al. *Scientometrics* (2016) 109: 591–614

298

179



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Article

Abstract

Introduction

Research methodology and ...

Bibliometric analysis of RFI...

Content analysis and classif...

Embeddable badges

Introduction

On this page you'll find instructions for embedding the Altmetric badges in your website. The badges are free to use for academic repositories and individual researchers.

If you're an organisation or publisher and would like to use these badges, please [get in touch](#) to discuss implementation.

For researchers and academic repositories, the badges are simple to set up with a two step process:

1. Add the following line of code anywhere on an HTML page:

```
<script type='text/javascript' src='https://d1bxh8uas1mnw7.cloudfront.net/assets/embed.js'></script>
```

2. Add a div element specifying a [DOI](#) (digital object identifier), [arXiv ID](#), [Handle](#), [PubMed ID](#), [ISBN](#), [URI](#) or [Altmetric ID](#) wherever you want a badge to appear:

```
<div class='altmetric-embed' data-badge-type='donut' data-doi="10.1038/nature.2012.9872"></div>
```

Replace the contents of **data-doi** with the DOI of the article you want the badge to represent: alternatively you can use a **data-arxiv-id** attribute containing an arXiv ID, **data-handle** attribute containing a Handle, **data-isbn** attribute containing an ISBN, **data-uri** attribute containing a URI or **data-pmid** attribute containing a PubMed ID.

If it isn't possible for you to set the **data-doi** attribute you can leave it empty and the embed script will look for a DOI in the *dc:identifier* or *citation_doi* `<meta>` tags of the current page. [Contact us](#) if you need any help with this.

That's it! You'll end up with a badge that looks like this:



Some examples

Measure your own Altmetric score

Badge type

Condensed style?

Popover

Details

Hide no mentions?

Hide if score less than

DOI



The HTML to copy into your page for the above embed:

```
<div data-badge-popover="right" data-badge-type="large-donut" data-doi="10.1007/s11192-016-1938-x" data-hide-no-mentions="true" class="altmetric-embed"></div>
```

On Friday, June 27, 2014 6:07 PM, The Impactstory team <team@impactstory.org> wrote:



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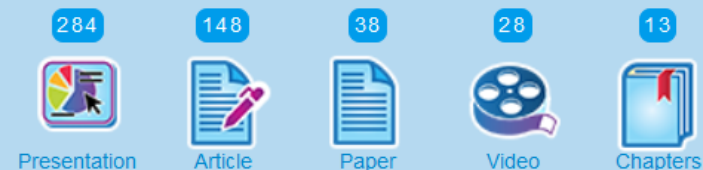
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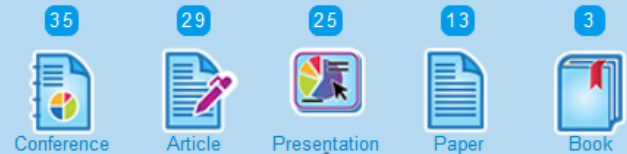


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Artifact Summary



PlumX Metrics



USAGE
(views, downloads)



CAPTURES
(bookmarks, favorites, readers)



MENTIONS
(Wikipedia, comments, blogs)



SOCIAL MEDIA
(Facebook likes, shares, tweets)



CITATIONS
(Scopus, patents)

Analyze

You can aggregate metrics at any level to help you understand what is happening with your grant-funded research. For example you can see output and metrics by:

- Researcher
- Grant
- Department
- Journal

Metrics by publication year



In this example, it is apparent that citations (red bars) are a lagging indicator; there are substantially fewer citations in the recent years, especially 2013 and 2014. The other categories of metrics help you see what has been going on recently.

Public Library of Science (PLOS) Article-Level Metrics (ALMs)

At PLOS, we believe that research articles should primarily be judged on their individual merits, rather than on the basis of the journal in which they were published. In March 2009, we inaugurated a program to provide Article-Level Metrics (ALM) on every article across all journals. Article-Level Metrics (ALMs) capture the manifold ways in which research is disseminated and can help users determine the value of an article to them and to their scientific community. The regularly updated data include the following metrics:

Viewed PLOS Journals (HTML, PDF, XML) PubMed Central (HTML, PDF) Figshare (HTML, Downloads, Likes)	Saved Mendeley CiteULike	Discussed Twitter Facebook Wikipedia Reddit PLOS Comments ResearchBlogging ScienceSeeker Nature Blogs Wordpress.com	Recom- mended F1000Prime	Cited CrossRef Scopus Web of Science PubMed Central PMC Europe PMC Europe Database Links
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Usage Count

The screenshot shows a search results page on the Web of Science platform. The top navigation bar includes 'Search', 'My Tools', 'Search History', and 'Marked'. The main content area is divided into several sections:

- Search Results Summary:** Shows 'Results: 711 (from Web of Science Core Collection)'. Below this, it states 'You searched for: TITLE: (virtual teams) ...More' and provides a 'Create Alert' button.
- Refine Results:** A section with a search input field labeled 'Search within results for...' and a magnifying glass icon.
- Web of Science Categories:** A dropdown menu showing 'MANAGEMENT (241)'.
- Sort by:** A dropdown menu is open, showing various sorting options. The selected option is 'Usage Count -- Since 2013'. Other options include 'Publication Date -- newest to oldest', 'Publication Date -- oldest to newest', 'Recently Added', 'Times Cited -- highest to lowest', 'Times Cited -- lowest to highest', 'Usage Count -- Last 180 days', 'Usage Count -- Since 2013' (highlighted), 'Relevance', and 'First Author -- A to Z'.
- Search Results List:** The first result is 'MANAGEMENT LEARNING Volume: 42 Issue: 4 Special Issue: SI Pages: 395-418 Published: SEP 2011' by Jyrama, Annukka. It has 'Times Cited: 11' and 'Since 2013: 233'. Buttons for 'Full Text from Publisher' and 'View Abstract' are visible. The second result is 'Communication and trust in global virtual teams' by Jarvenpaa, SL; Leidner, DE, published in 'ORGANIZATION SCIENCE Volume: 10 Issue: 6 Pages:'. It has 'Times Cited: 673'.
- Page Information:** 'Page 1 of 7'.
- Additional Actions:** 'Add to Marked List' button and 'Analyze Results' and 'Create Citation Report' options.

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Scopus

Search	Alerts	Lists	
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Metric details

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Overview	Citations	Scholarly Activity <small>Mendeley, CiteULike, etc.</small>	Scholarly Commentary <small>Blogs, Reviews, Wikipedia, etc.</small>	Social Activity <small>Twitter, Facebook, etc.</small>
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Overview

Citation Count 9 <small>Cited by in Scopus</small>	Field-Weighted Citation Impact 4.95	Citation Benchmarking 97 th percentile <small>Compared to Social Sciences (all) articles of the same age and document type</small>
Mendeley 103 Readers	Blogs 1 Post	Twitter 12 Tweets

Engagement highlights

Article Metrics in Scopus

A comparison between two main academic literature collections: Web of science and SCOPUS databases
(2013) Asian Social Science, 9(5), pp. 18-26

Scopus

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Overview	Citations	Scholarly Activity Mendeley, CiteULike, etc.	Social Activity Twitter, Facebook, etc.
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Overview



Engagement highlights

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Nader Ebrahim



55

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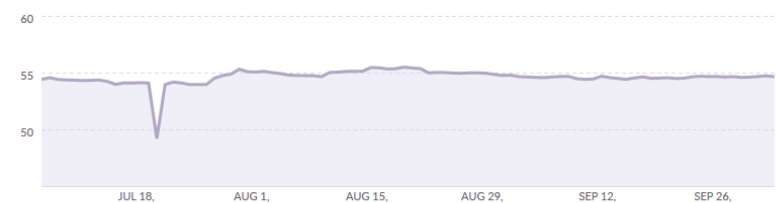
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The Rise of "Trade Liberalization": Bibliometric Analysis of Trade Liberalization Study

Murtala Muhammad, Abubakar Ahmed, Gold Kafilah Lola, Usman Mikail Usman, Nader Ale Ebrahim

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.

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Murtala Muhammad, Abubakar Ahmed, Gold Kafilah Lola, Usman Mikail Usman, Nader Ale Ebrahim

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Shalini Nagaratnam, Nader Ale Ebrahim, Muzafar Shah Habibullah

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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>
2. Bong, Yiibonn and Ale Ebrahim, Nader, Increasing Visibility and Enhancing Impact of Research (April 24, 2017). *Asia Research News* 2017. Available at SSRN: <https://ssrn.com/abstract=2959952>
3. Bong, Yiibonn and Ale Ebrahim, Nader, The Rise of Alternative Metrics (Altmetrics) for Research Impact Measurement (April 3, 2017). *Asia Research News* 2017. Available at SSRN: <https://ssrn.com/abstract=2945838>

My recent presentations:

1. Ale Ebrahim, Nader (2017): Improving Research Visibility Part 6: Academic Social Networking. <https://doi.org/10.6084/m9.figshare.5048413.v1>
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