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Analysis of Bibliometrics information for selecting the best field of study

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



28th September 2016

All of my presentations are available online at:

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

Link to this presentation: <https://dx.doi.org/10.6084/m9.figshare.1621261.v3> (Old version)

4th SERIES OF INTRODUCTORY WORKSHOP ON:
***Strategies to Enhance Research
Visibility, Impact & Citations***

Nader Ale Ebrahim, PhD

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

Read more: Ale Ebrahim, N., 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

Abstract

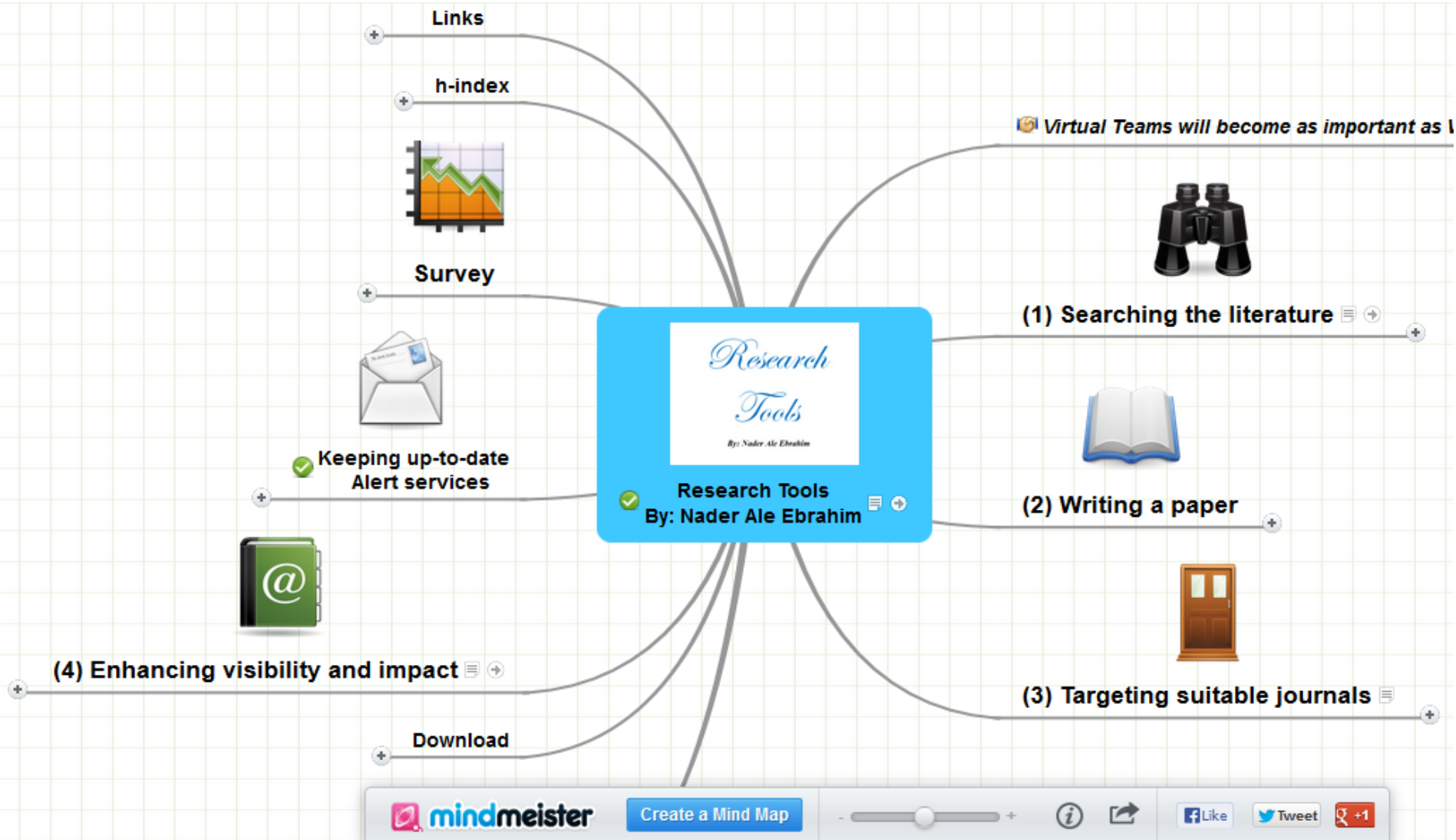
Abstract:

Bibliometrics can be defined as the statistical analysis of publications. Bibliometrics has focused on the quantitative analysis of citations and citation counts which is complex. It is so complex and specialized that personal knowledge and experience are insufficient tools for understanding trends for making decisions. We need tools for analysis of Bibliometrics information for select the best field of study with promising enough attention.

This presentation will provide tools to discover the new trends in our field of study in order to select an area for research and publication which promising the highest research impact.

Keywords: H-index, Improve citations, Research tools, Bibliometrics, Research Visibility, Research Impact

Research Tools Mind Map





World University Rankings 2016-2017

Visualizing Citation Cartels

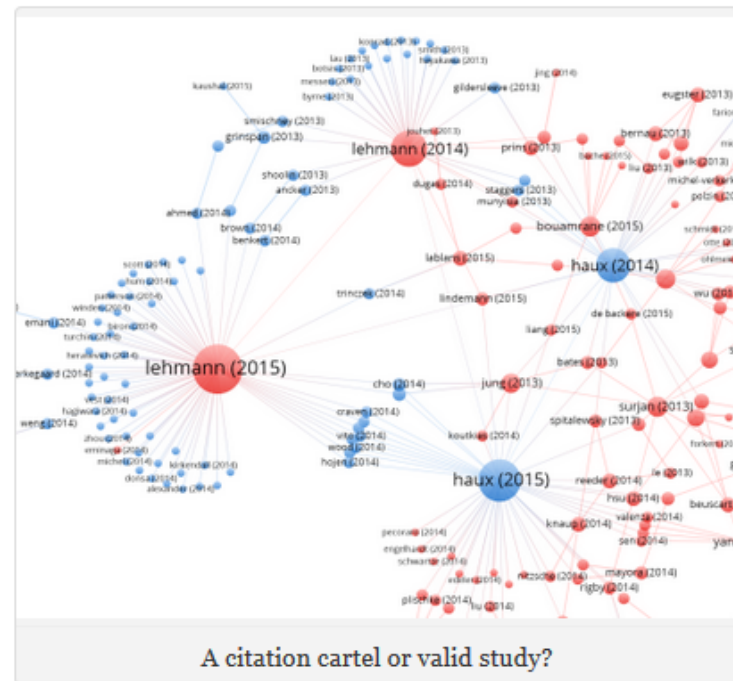
Visualizing Citation Cartels

POSTED BY PHIL DAVIS · SEP 26, 2016 · 5 COMMENTS

FILED UNDER APPLIED CLINICAL INFORMATICS, CITATION CARTEL, CITATION NETWORK, JOURNAL IMPACT FACTOR, METHODS OF INFORMATION IN MEDICINE, SCHATTAUER PUBLISHERS, THOMSON REUTERS, VISUALIZATION

By their very nature, citation cartels are difficult to detect. Unlike self-citation, which can be spotted when there are high levels of references to other papers published in the same journal, cartels work by influencing incoming citations from other journals.

In 2012, I reported on the first case of a [citation cartel involving four biomedical journals](#). Later that year, Thomson Reuters [suspended three of the four titles from receiving an Impact Factor](#). In 2014, they suspended six business journals for similar behavior.



Source: <https://scholarlykitchen.sspnet.org/2016/09/26/visualizing-citation-cartels/>

Top 10 authors with the highest profile view counts on ResearchGate

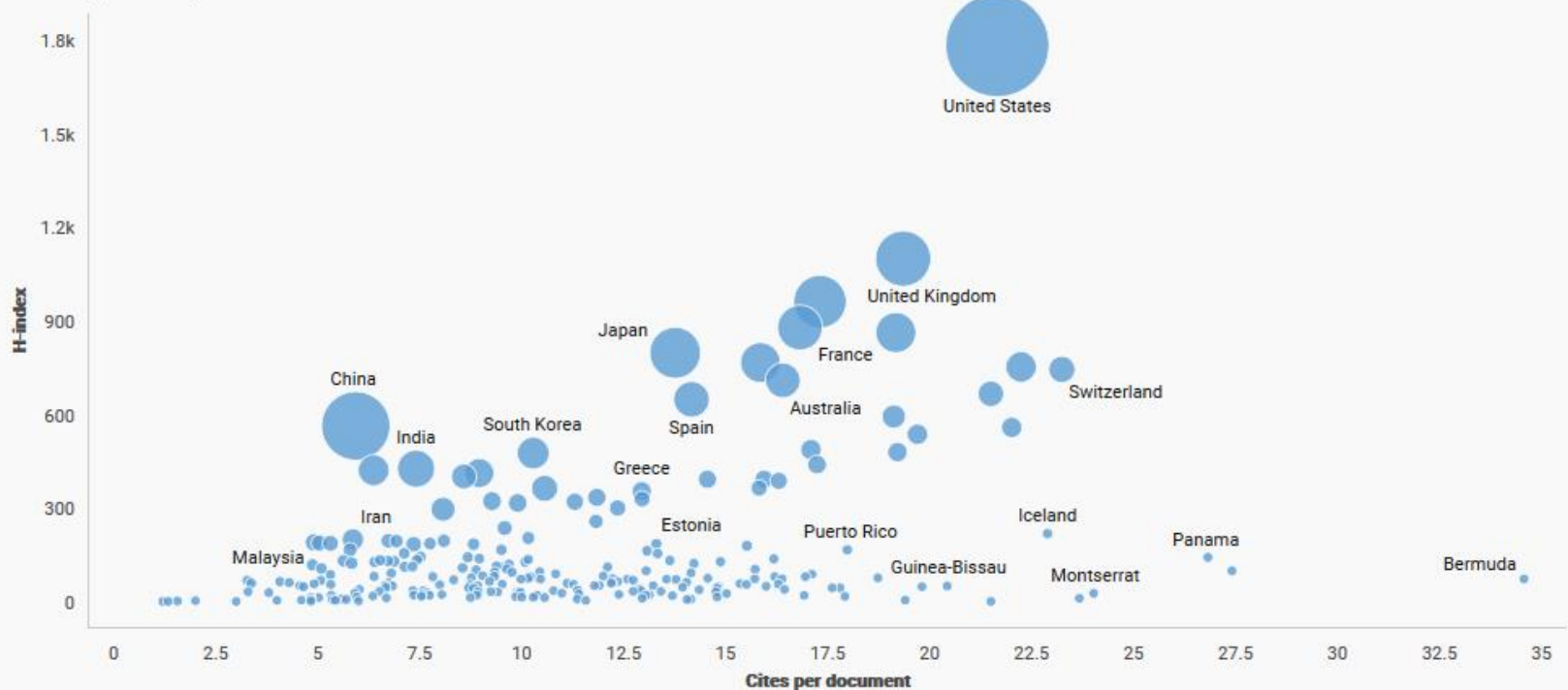
Table 11. Top 10 authors with the highest profile view counts on ResearchGate (9th of November, 2015), compared to the same indicator on the 10th of September, 2015.

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

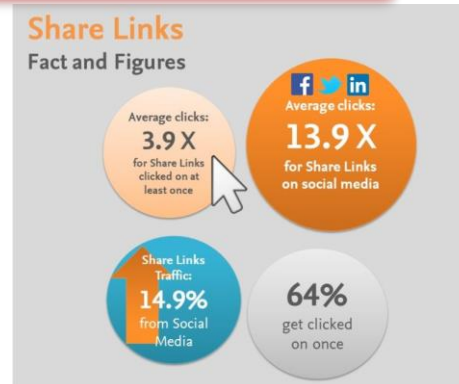
World Report

Data by country



From submission to sharing: the life cycle of an article

- **Phase 1: Conception and birth**
- **Phase 2: Submission**
- **Phase 3: Reviewers**
- **Phase 4: Production and publication**
- **Phase 5: Dissemination and archiving**
 - The article is published, but its life cycle isn't yet complete. In this phase, dissemination can start; sharing the [Share Links](#) article helps increase readership and make it more visible.



Introduction of bibliometrics

- Bibliometrics can be defined as the quantitative analysis of science and technology performance and the cognitive and organizational structure of science and technology.
- Basic for these analyses is the scientific communication between scientists through (mainly) journal publications.
- Key concepts in bibliometrics are **output** and **impact**, as measured through publications and citations.
- Important starting point in bibliometrics: scientists express, through citations in their scientific publications, a certain degree of influence of others on their own work.
- By large scale quantification, citations indicate influence or **(inter)national visibility** of scientific activity, but should not be interpreted as synonym for **'quality'**.

Informetrics, scientometrics, bibliometrics, webometrics, cybermetrics and altmetrics

Bibliographies – largely references

Whole Internet, cyberspace

Science of Science

Bibliometrics

Cybermetrics

Scientometrics

Web presence, visibility and impact – links, pages, documents

Webometrics

Altmetrics

Alternative metrics – views, downloads, web citations, etc

Source: Onyancha, Omwoyo Bosire. "Can informetrics shape biomedical research? A case study of the HIV/AIDS research in sub-Saharan Africa ." *Inkanyiso: Journal of Humanities and Social Sciences* 6.1 (2014): 49-65.

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Frequently Used Terms for Research Evaluation Metrics

Term	Short Definition
Bibliometrics	Bibliometrics is a set of methods to quantitatively analyse academic literature and scholarly communications.
Informetrics	Informetrics is the study of quantitative aspects of information. This includes the production, dissemination, and use of all forms of information, regardless of its form or origin.
Scientometrics	Scientometrics is the study of quantitative features and characteristics of science, scientific research and scholarly communications.
Webometrics	Webometrics is the study of quantitative features, characteristics, structure and usage patterns of the world wide web, its hyperlinks and internet resources.
Cybermetrics	Cybermetrics is an alternative term for Webometrics.
Librametrics	Librametrics is a set of methods to quantitatively analyse availability of documents in libraries, their usage and impact of library services to its user community.
Patentometrics	Patentometrics is a set of methods to quantitatively analyse patent databases, patent citations and their usage patterns.
Altmetrics	Altmetrics is new metrics proposed as an alternative to the widely used journal impact factor and personal citation indices like the h-index. The term altmetrics was proposed in 2010, as a generalization of article level metrics, and has its roots in the twitter #altmetrics hashtag.
Article Level Metrics (ALM)	Article level metrics is an alternative term for Altmetrics.

Source: Das, A.-K. (2015). [Research Evaluation Metrics](#). 7, place de Fontenoy, 75352 Paris 07 SP, France: United Nations Educational, Scientific and Cultural Organization.

Reasons for bibliometric studies

- Understanding of ***patterns***
 - discovery of regularities, behavior
 - “order out of documentary chaos” [Bradford, 1948]
- Analysis of ***structures & dynamics***
 - discovery of connections, relations, networks
 - search for regularities - possible predictions
- Discovery of ***impacts, effects***
 - relation between entities & amounts of their various uses
 - providing support for making of decisions, policies

Use of evaluative bibliometrics

- Academic, research & government institutions for:
 - promotion and tenure, hiring, salary raising
 - decisions for support of departments, disciplines
 - grants decision; research policy making
 - visualization of scholarly networks, identifying key contributions & contributors
 - monitoring scholarly developments
 - determining journal citation impact
- Resource allocation:
 - identifying authors most worthy of support;
 - research areas most worthy of funding
 - journals most worthy of support or purchase; etc.

Applications of Scientometrics and Bibliometrics in Research Evaluation

- **For Institution/ Collaborative Research Group**
- **For a scientist:**
 - **Mapping of collaborations**, collaborating institutions, collaborating countries, co-authors, highly cited papers, top publishing journals, percentage of cited vs. uncited papers, percentage of self-citations, author-level indicators such as h-index, i10-index, etc.
- **For a country**
- **For a journal**

Country and Regional Scientific Production Profiles



Major Citation Databases

Name of Citation Database	Launched	Scope	Owned by	Terms of Availability
<i>Science Citation Index (SCI)</i>	1964	Global	Thomson Reuter	Subscription-based with Web of Science
<i>Social Science Citation Index (SSCI)</i>	1972	Global	Thomson Reuter	Subscription-based with Web of Science
<i>Arts & Humanities Citation Index (A&HCI)</i>	1978	Global	Thomson Reuter	Subscription-based with Web of Science
<i>Scopus</i>	2004	Global	Elsevier B.V.	Subscription-based
Google Scholar Citations	2004	Global	Google Inc.	Freely Available Online
Microsoft Academic Search	2003	Global	Microsoft Research	Freely Available Online
CiteSeerX (CiteSeerX.ist.psu.edu)	1997	Global; Subject specific	Pennsylvania State University, USA	Freely Available Online

WEB OF SCIENCE™

Search

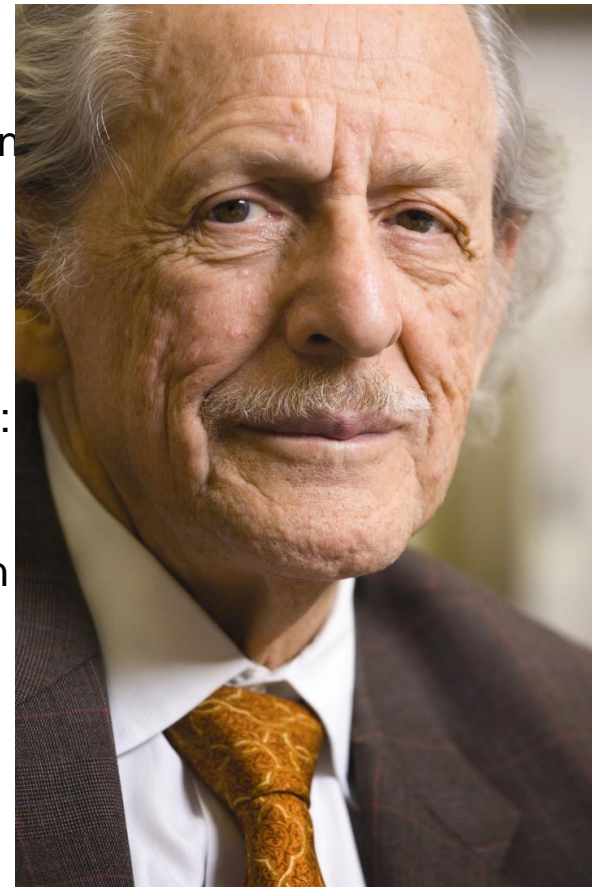
Web of Science™ Core Collection

Emerging Sources Citation Index (ESCI) – Launched 2015

Source: Das, A.-K. (2015). [Research Evaluation Metrics](#). 7, place de Fontenoy, 75352 Paris 07 SP, France: United Nations Educational, Scientific and Cultural Organization.

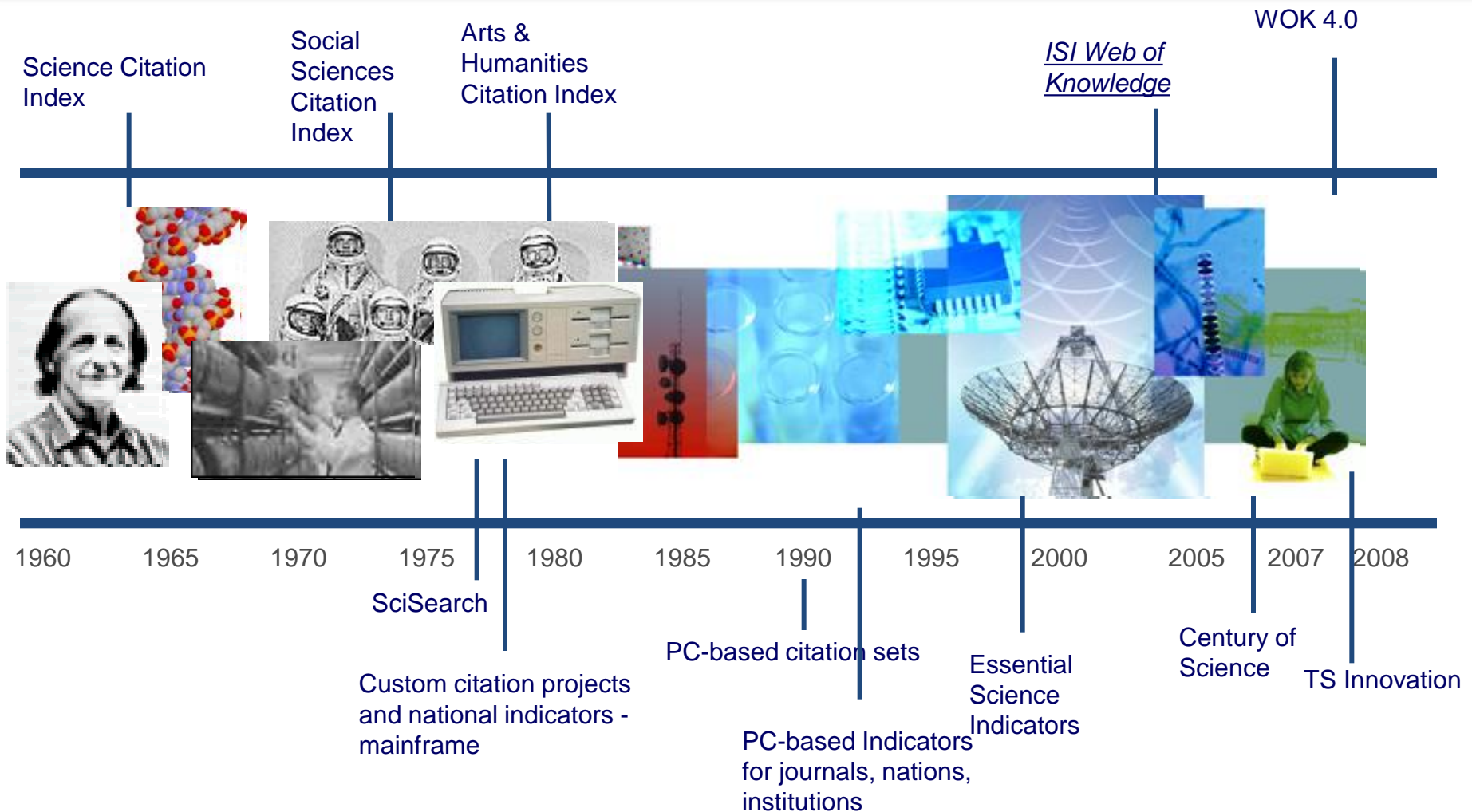
The Institute for Scientific Information (ISI)

- The **Institute for Scientific Information (ISI)** was founded by [Eugene Garfield](#) in 1960. It was acquired by [Thomson Scientific & Healthcare](#) in 1992, became known as **Thomson ISI** and now is part of the Healthcare & Science business of the multi-billion dollar [Thomson Reuters Corporation](#).
- ISI offered [bibliographic database](#) services. Its speciality: [citation indexing](#) and analysis, a field pioneered by Garfield. It maintains citation databases covering thousands of [academic journals](#), including a continuation of its long time print-based indexing service the [Science Citation Index \(SCI\)](#), as well as the [Social Sciences Citation Index \(SSCI\)](#), and the [Arts and Humanities Citation Index \(AHCI\)](#). All of these are available via ISI's [Web of Knowledge](#) database service.



Founder & Chairman Emeritus
Institute for Scientific Information (ISI)

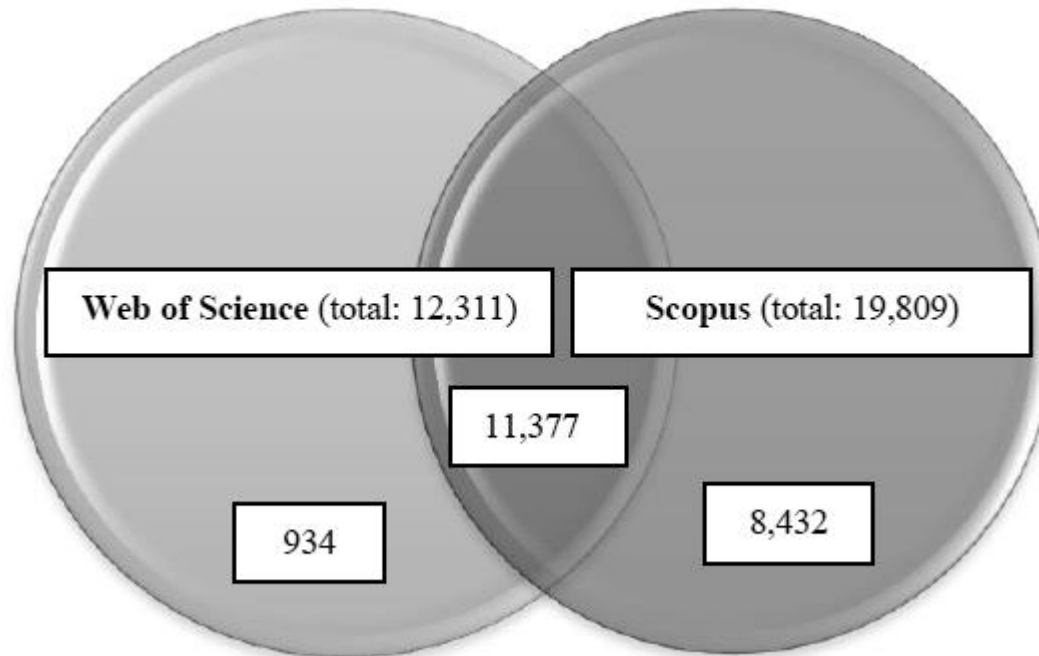
Thomson Reuters (formerly ISI) has been the authority on citation data for over 50 years.



Scopus (Launched 2004)

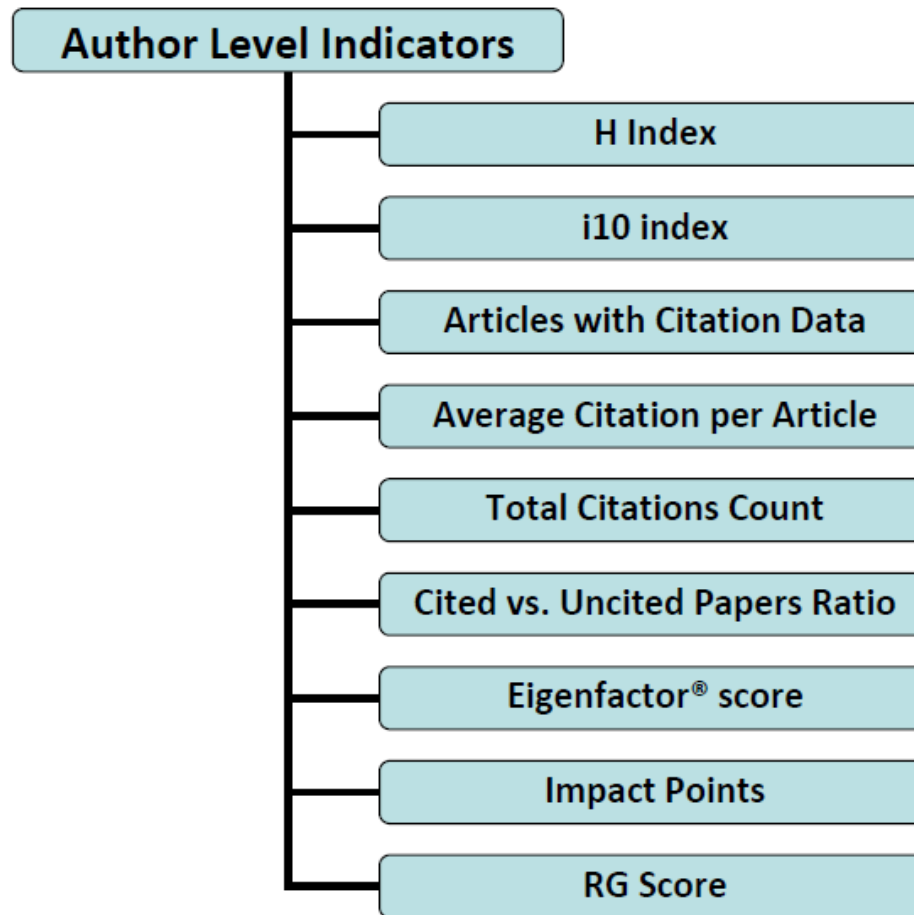
- Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world's research output in the fields of science, technology, medicine, social sciences, and arts and humanities, Scopus features smart tools to track, analyze and visualize research.
- As research becomes increasingly global, interdisciplinary and collaborative, you can make sure that critical research from around the world is not missed when you choose Scopus.

A Comparison between Two Main Academic Literature Collections: Web of Science and Scopus Databases



Source: Aghaei Chadegani, Arezoo and Salehi, Hadi and Yunus, Melor Md and Farhadi, Hadi and Fooladi, Masood and Farhadi, Maryam and Ale Ebrahim, Nader, A Comparison between Two Main Academic Literature Collections: Web of Science and Scopus Databases (April 7, 2013). Asian Social Science, Vol. 9, No. 5, pp. 18-26, April 27, 2013. Available at SSRN: <http://ssrn.com/abstract=2257540>

Author Level Indicators

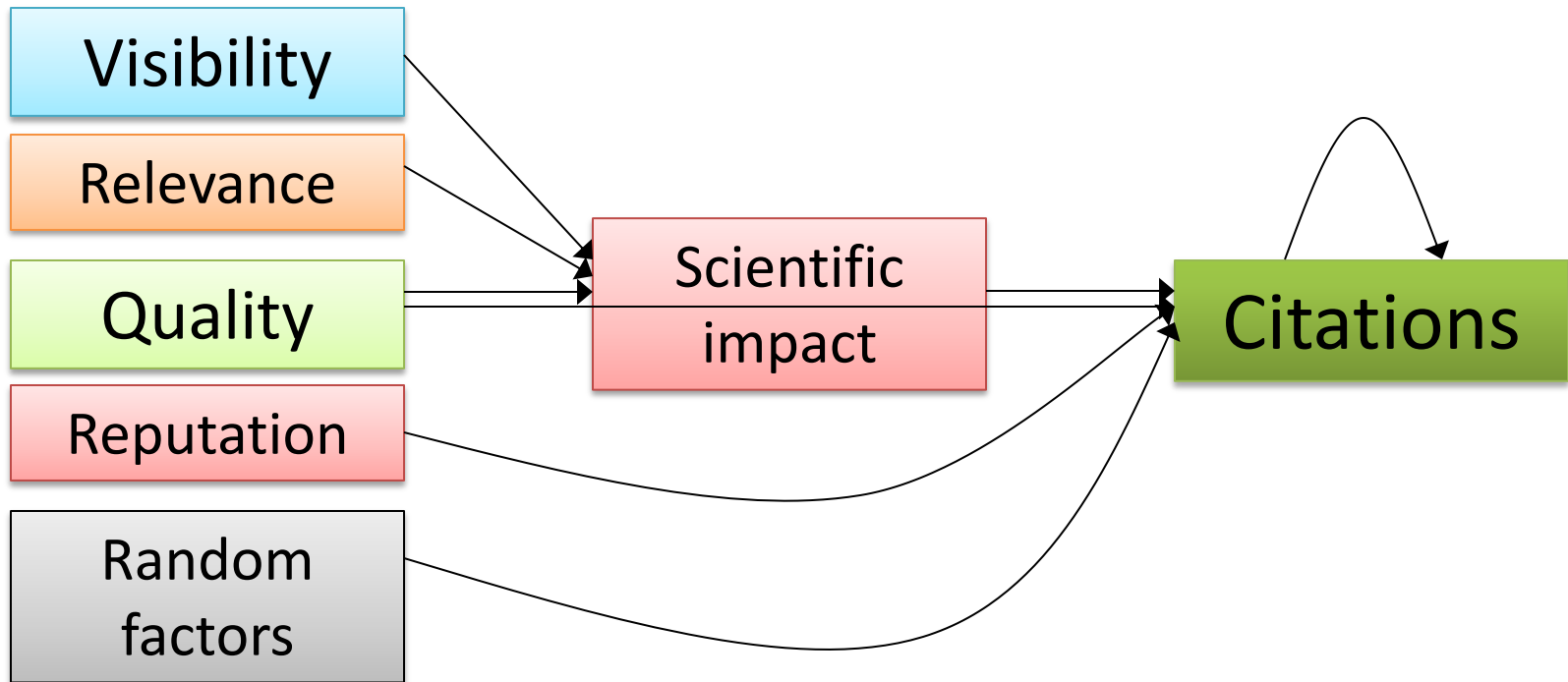


Source: Das, A.-K. (2015). [Research Evaluation Metrics](#). 7, place de Fontenoy, 75352 Paris 07 SP, France: United Nations Educational, Scientific and Cultural Organization.

CHECK YOUR SCORE

- H-Index?
- i10-Index?
- g-Index?
- Citations Count?
- Articles with citation?
- Average citations per article?
- Impact Points?
- RG Score?

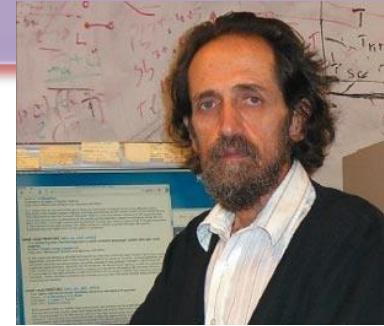
Citations as a proxy of scientific impact



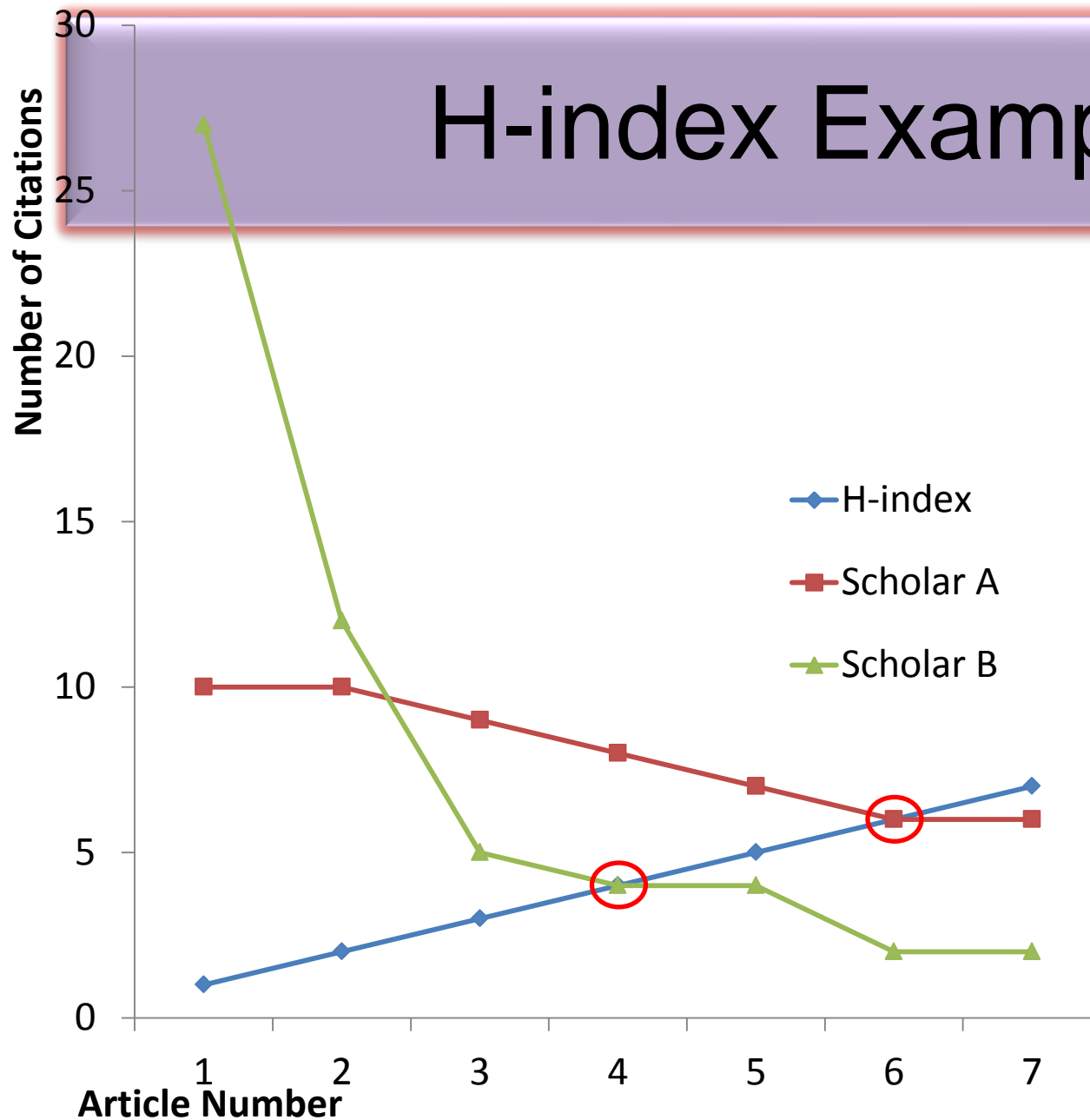


H and g-index

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

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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 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

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The Publish or Perish Book

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10
11

The Publish or Perish Book

Want to know more about citation analysis across disciplines? The Publish or Perish book reviews the evidence.



More about this book...

Results

Papers:	46	Cites/paper:	6.57	h-index:	8	AWCR:	24.07
Citations:	302	Cites/author:	170.70	g-index:	17	AW-index:	4.91
Years:	17	Papers/author:	20.72	hc-index:	6	AWCRpA:	13.35
Cites/year:	17.76	Authors/paper:	3.26	hI-index:	4.00	e-index:	13.96
				hI,norm:	7	hm-index:	5.67

Cites	Per year	Rank	Authors	Title
<input checked="" type="checkbox"/> 51	3.64	1	J Bal	Process analysis tools for process improve
<input checked="" type="checkbox"/> 44	3.14	2	..., J Bal	Process analysis techniques and tools for bu
<input checked="" type="checkbox"/> 39	3.25	3	J Bal...	Managing the virtual team and controlling eff
<input checked="" type="checkbox"/> 38	3.17	4	J Bal...	Implementing virtual teamworking. Part 1: a
<input checked="" type="checkbox"/> 31	2.38	5	J Bal...	Virtual teaming in the automotive supply chai
<input checked="" type="checkbox"/> 26	2.00	6	J Bal, R Wilding...	Virtual teaming in the agile supply chain
<input checked="" type="checkbox"/> 17	1.55	7	J Bal...	Implementing virtual teamworking: Part 2-a
<input checked="" type="checkbox"/> 13	1.18	8	..., J Bal	Learning style preferences of engineers in a
<input checked="" type="checkbox"/> 8	0.73	9	J Bal...	Implementing virtual teamworking: Part 3-a
<input checked="" type="checkbox"/> 8	0.89	11	..., J Bal	The emerging self-directed learning methods
<input checked="" type="checkbox"/> 7	0.78	10	..., A Young, J Bal	External environmental forces affecting e-le
<input checked="" type="checkbox"/> 5	0.38	13	J BAL...	Virtual Teaming in the Automotive Supply Ch
<input checked="" type="checkbox"/> 4	0.36	12	..., J Bal	The effects of technology-based learning on
<input checked="" type="checkbox"/> 4	0.00	14	..., J Bal	E-business through competence profiling
<input checked="" type="checkbox"/> 2	0.15	16	J BAL...	Tracking systems for use in ergonomic asses
<input checked="" type="checkbox"/> 2	0.14	15	..., B Jay	Process analysis techniques and tools for bu
<input checked="" type="checkbox"/> 1	0.08	18	J BAL...	Effective virtual teamworking
<input checked="" type="checkbox"/> 1	0.10	19	J Bal...	Supporting SMEs through e-business
<input checked="" type="checkbox"/> 1	0.14	17	AH Anderson, J Mullin, R Mcewan, J Bal...	Exploring why virtual teamworking is effectiv
<input checked="" type="checkbox"/> 0	0.00	30	D Seng, Y Cheung, J Bal...	A business model for collaborative commerce

Predicting scientific success

H-index prediction

Read details in [Acuna, Allesina, Kording, Nature, 489, 201-202 \(2012\)](#)

Save to file

H-index calculator uses BitmapExporter by Mario Klingemann

H-index

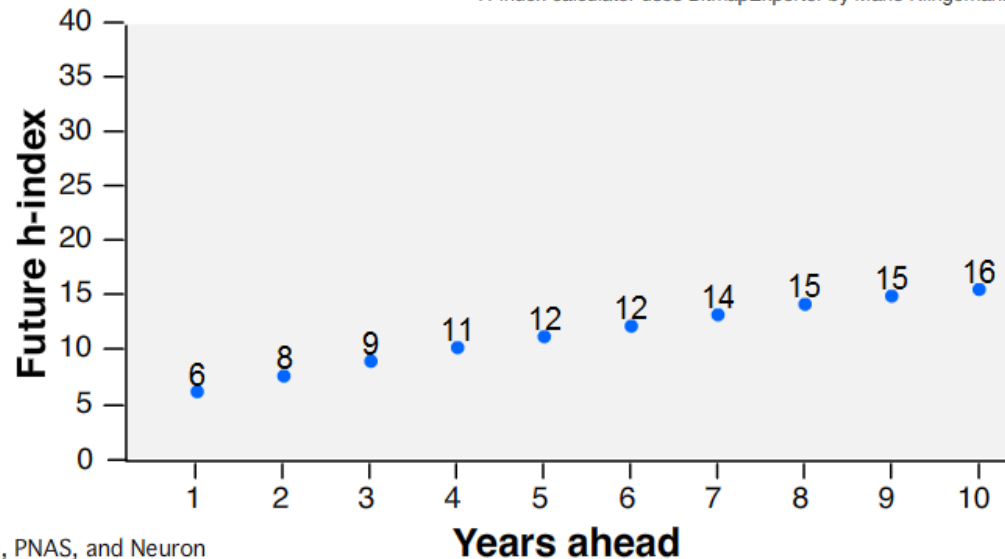
articles

Years since first article

distinct journals

articles in 'top' journals*

Reset features



* Nature, Science, Nature Neuroscience, PNAS, and Neuron

distinct journals: number of different journals where you have published in.

Note: The equations and the calculator model people that are in [Neurotree](#), have an h-index 5 or more, and are between 5 to 12 years after publishing first article.

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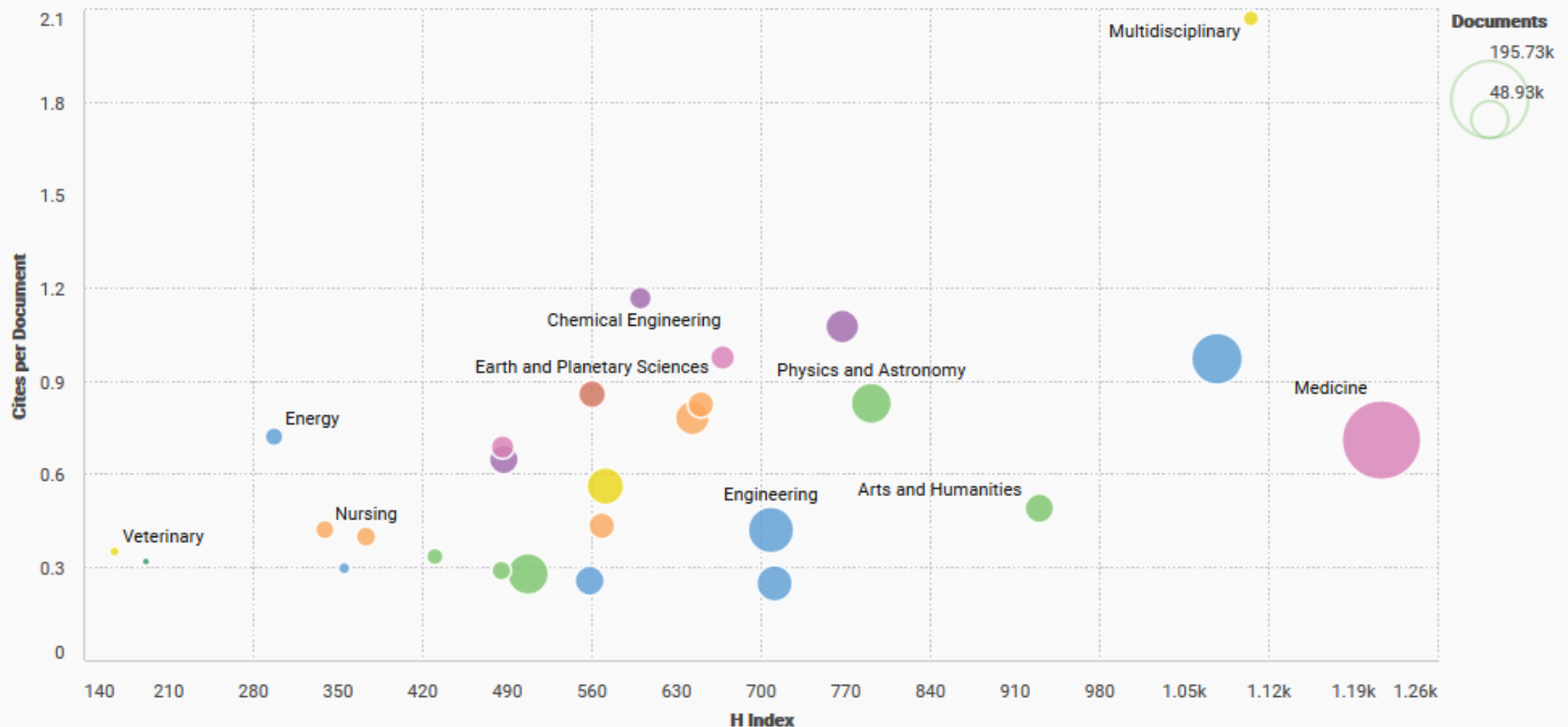


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Subject Bubble Chart - US



Click on one or more subject areas ↑ to filter subject categories ↓

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Researchers and Groups

Publication Sets

Countries and Groups

Research Areas

Technology Management and Virtual Teams

Technonogy Management, Virtual teams

"Virtual Teams" Research Area - 12 January 2015
Virtual teams

Bibliometrics

Bibliometrics, Citation

+ Add Research Areas

* Remove all entities from this section

Technology Management and Virtual Teams

Source: Scopus data up to 16 Nov 2015

2010 to >2015

no filter selected

Summary

Institutions

Countries


Authors

Journals

Keyphrases

Overall research performance

Export

Scholarly Output 
388




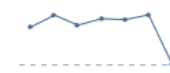
[View list of publications](#)

Views Count
15,084



Source: Scopus | [Change](#)

Field-Weighted Citation Impact 
0.63



Citation Count 
781



Keyphrase analysis

Top 50 keyphrases by relevance, based on 388 publications | [Learn about keyphrase calculations](#)

Virtual Teams

Top 50 keyphrases by relevance, based on 3,178 publications | [Learn about keyphrase calculations](#)



AA relevance of keyphrase | declining ■■ growing (2011-2015)

→ [Analyze in more detail](#)

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Research Areas

● Bibliometrics

Bibliometrics , Citation 

○ "Virtual Teams" Research Area -

12 January 2015

Virtual teams

○ Physics Education - 13 January

2015

Physics Education

+ Add Research Areas

× Remove all entities from this section

Bibliometrics

Source: Scopus data up to 16 Nov 2015

2010 to >2015 ▾

no filter selected ▾

Summary

Institutions

Countries


Authors

Journals

Keyphrases


Overall research performance

Exp

Scholarly Output 

870




 View list of publications

Views Count

22,401




Source: Scopus | [Change](#)

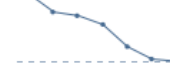
Field-Weighted Citation Impact 

1.72



Citation Count 

4,501



Keyphrase analysis

Top 50 keyphrases by relevance, based on 870 publications |  [Learn about keyphrase calculations](#)

SCOPUS - Analyze author output

Combined data for multiple authors

Ebrahim, Nader Ale; Ale Ebrahim, Nader

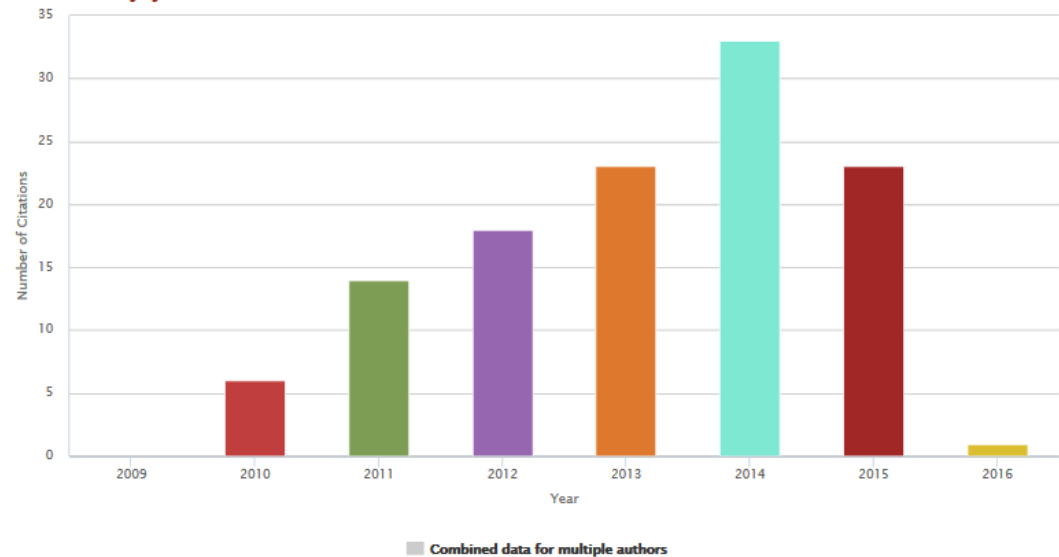
[Back to citation overview](#)

Documents (18) *h*-index (6) **Citations (118)** Co-authors (33)

Analyze documents published between: 2009 to 2015 [Update Graph](#)

Year ▾	Citations
2016	1
2015	23
2014	33
2013	23
2012	18
2011	14
2010	6
2009	0

Citations by year



SciVal - Elsevier Research Intelligence

SciVal

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Researchers and Groups

● Ale Ebrahim, Nader

Bibliometrics, *Citation*, *Research*

Tools, *Virtual teams*

+ Add Researchers and Groups

x Remove all entities from this section

Publication Sets ▾

Countries and Groups ▾

Research Areas ▾

Ale Ebrahim, Nader

🇲🇾 University of Malaya | [View this Researcher in Scopus](#)

Source: Scopus data up to 16 Oct 2015

2010 to >2015 ▾

no filter selected ▾

Summary

Publications

Citations

Collaboration

Overall

Top collaborating Institutions

Collaboration ⚙️

Shortcuts ▾

Publications of Ale Ebrahim, Nader, by amount of international, national and institutional collaboration



Metric	Publications	Field-Weighted Citation Impact ▾
International collaboration	61.5% 8	4.98
Only national collaboration	15.4% 2	0.00
Only institutional collaboration	23.1% 3	0.04
Single authorship (no collaboration)	0.0% 0	-

**Results: 1,218***(from Web of Science Core Collection)*You searched for: TOPIC: ("virtual team**") ...[More](#)[Create Alert](#)**Refine Results**

Search within results for...

**Web of Science Categories** ▾

- MANAGEMENT (458)
- COMPUTER SCIENCE INFORMATION SYSTEMS (272)
- INFORMATION SCIENCE LIBRARY SCIENCE (177)
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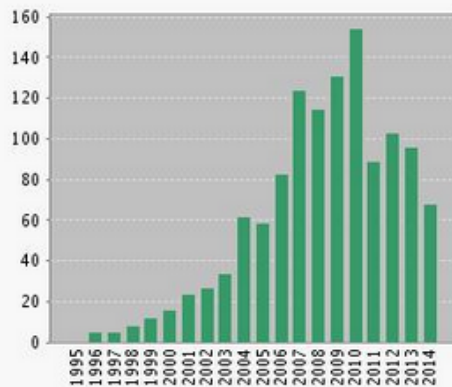
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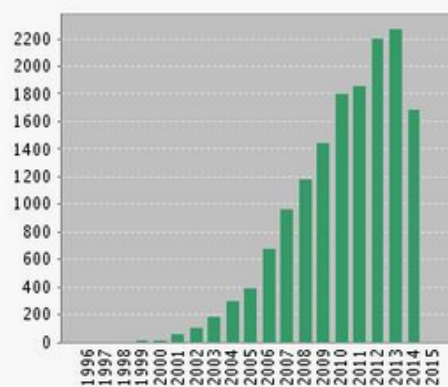
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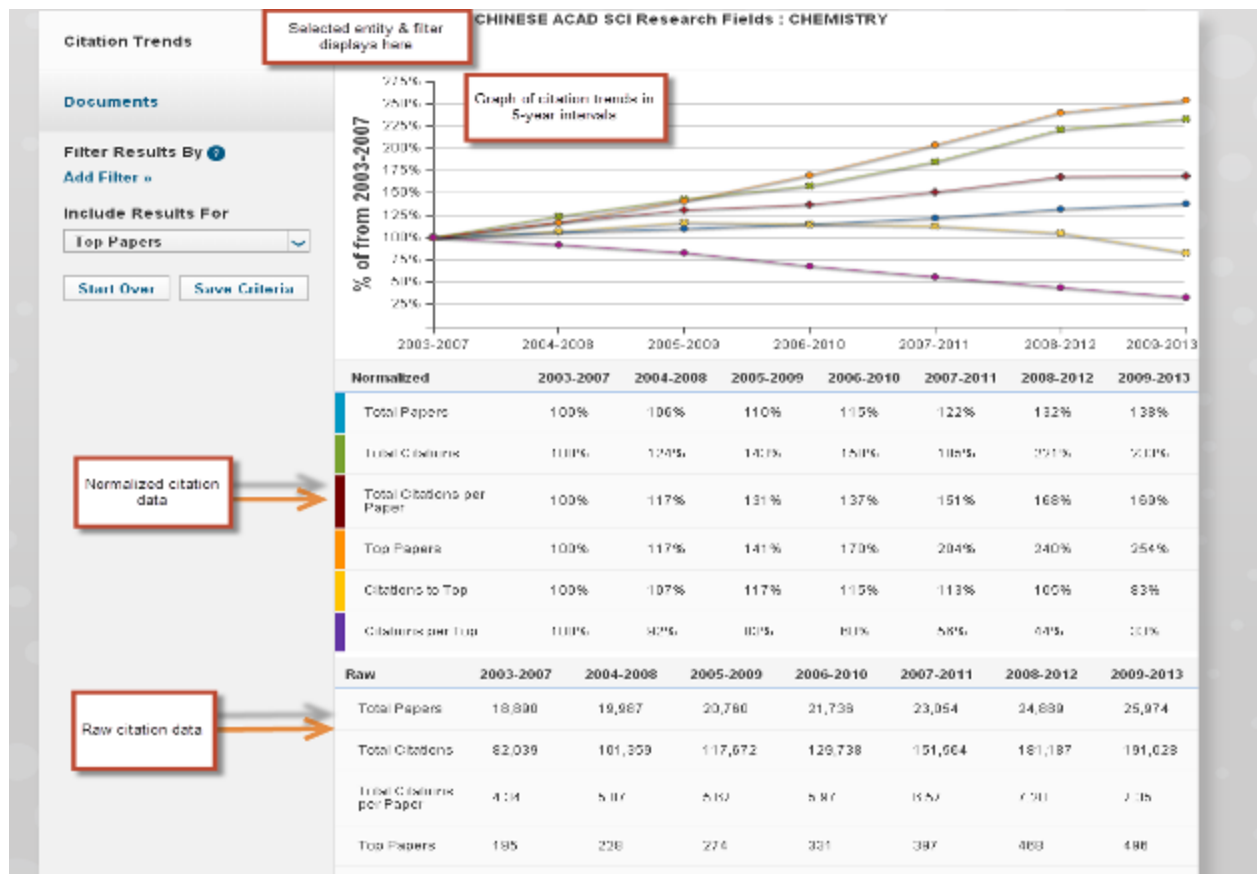
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5 SWISS FEDERAL INSTITUTES OF TECHNOLOGY DOMAIN	10,535	218,033	20.70	261
6 CSIR INDIA	16,332	198,253	12.14	119
7 CSIC	12,694	191,371	15.08	184
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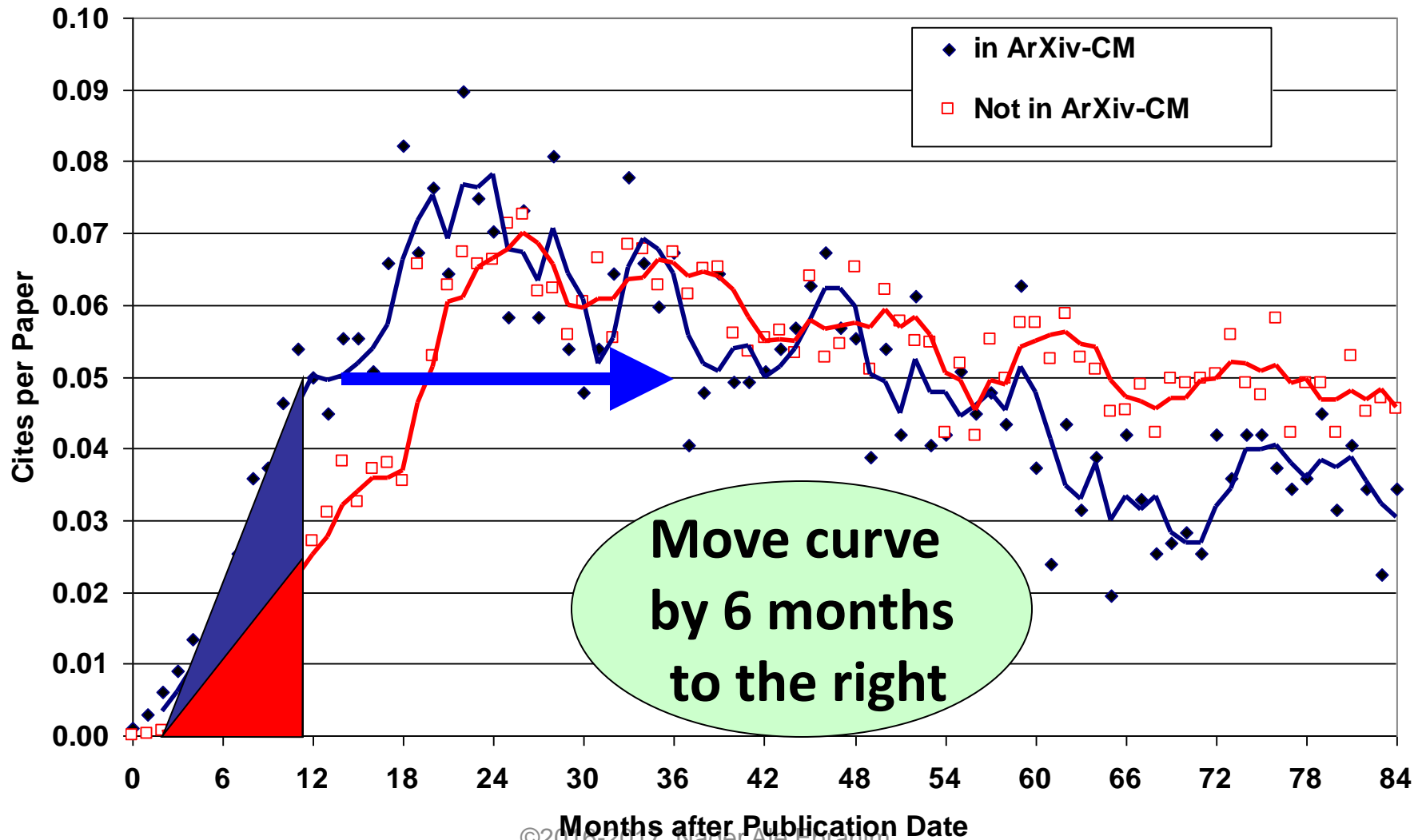
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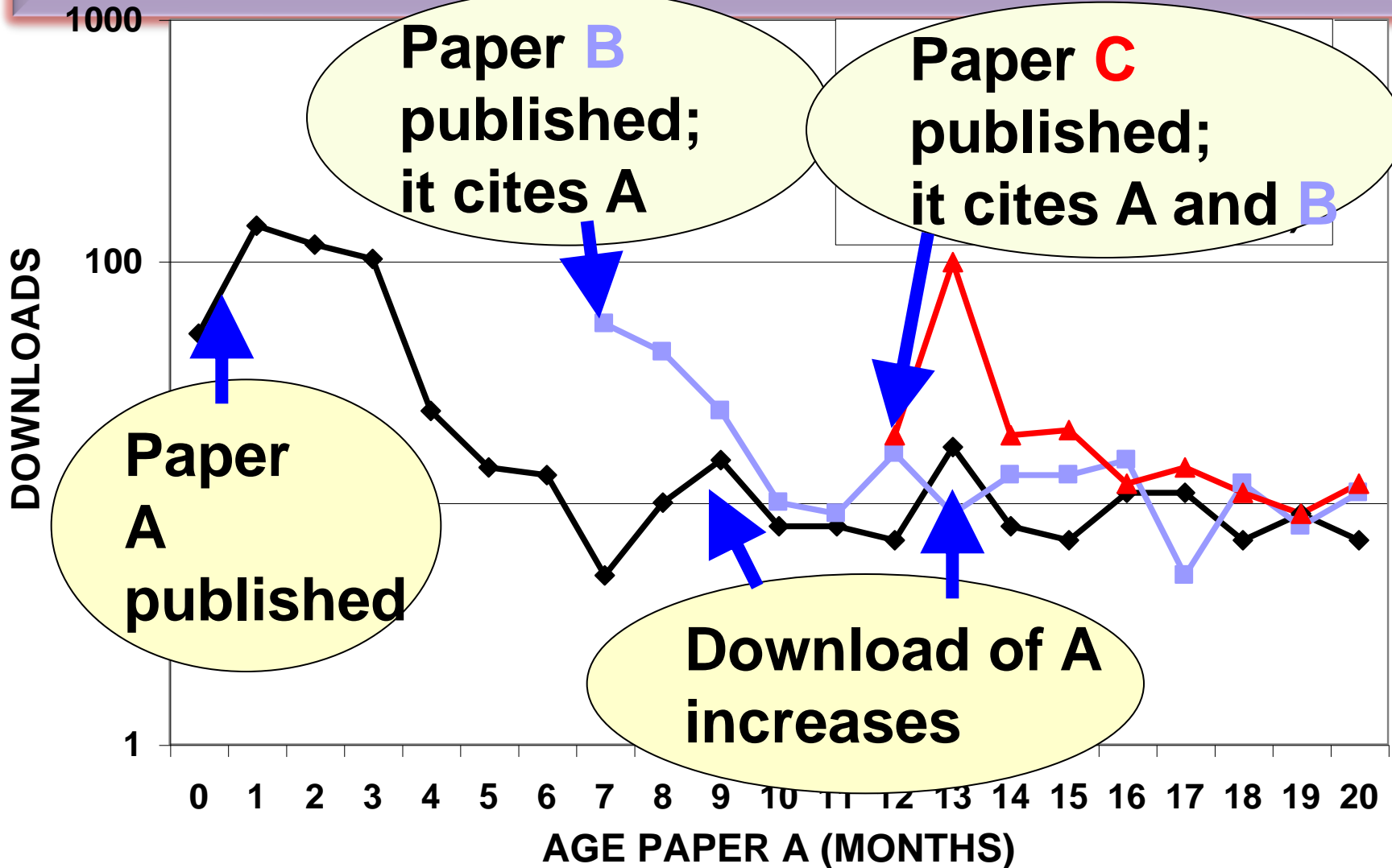
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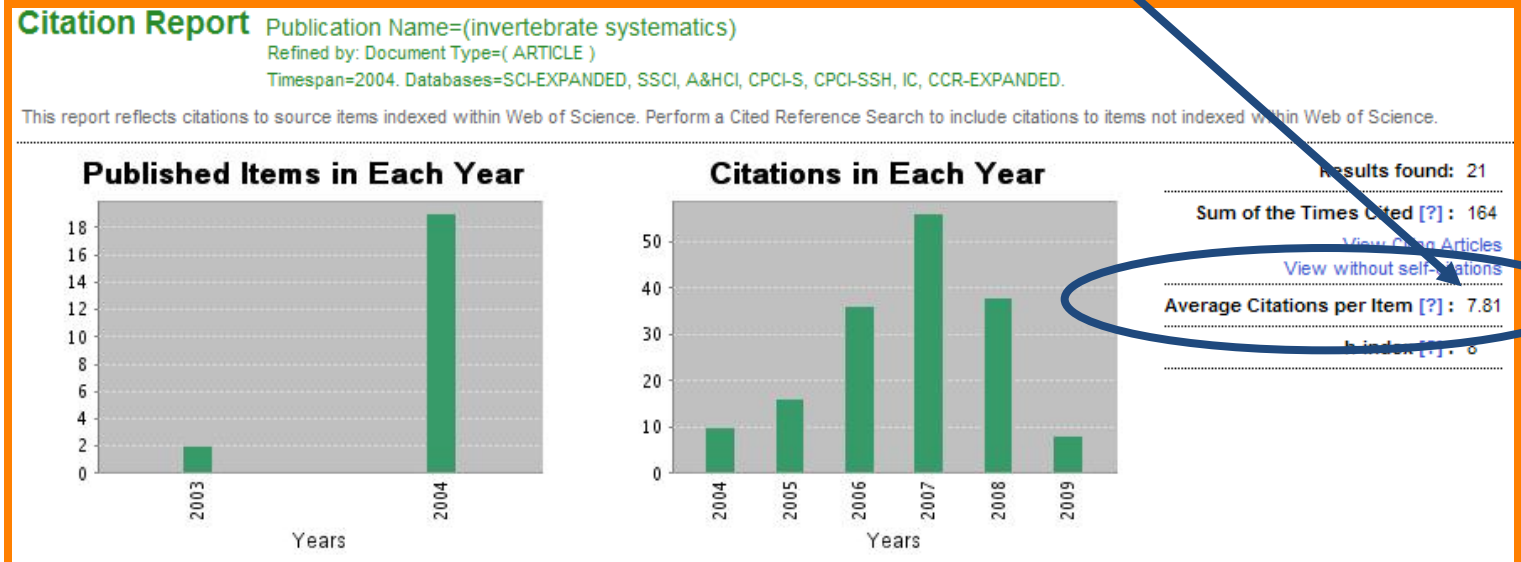
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Author(s): Philips TK, Pretorius E, Scholtz CH

Source: INVERTEBRATE SYSTEMATICS Volume: 18 Issue: 1 Pages: 53-88 Published: 2004

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Abstract: The phylogeny of the Scarabaeinae, the largest and most important group of dung feeding beetles, is hypothesised based on 200 morphological characters of 50 taxa, representing nearly one quarter of the known genera. We present a drastically different picture of evolution of this highly successful group of beetles than those previously proposed. It is apparent that gross morphology is correlated with either rolling or tunnelling but does not accurately reflect evolutionary history. Results indicate that there are not two separate clades of dung beetles, the rollers and tunnellers, but that rolling behaviour has evolved several times from ancestral tunnellers. The Dichotomiini, Canthonini, and Coprini are poly- or paraphyletic, whereas each of the remaining nine tribes appear as well supported monophyletic clades (the monophyly of the Gymnopleurini was not tested). The genera traditionally included in the Dichotomiini are the oldest and most basal lineages and all other clades, including those of the Canthonini, evolved from ancestral dichotomiine lineages either directly or indirectly. New interpretations of the evolution of rolling, its possible loss, nesting and feeding behaviours, and future changes in classification are discussed. Evidence supports the origin of the Scarabaeinae before the Tertiary and subsequent vicariance of many clades via the breakup of Gondwanaland.

Document Type: Article

Language: English

KeyWords Plus: COLEOPTERA-SCARABAEIDAE; INTEGUMENTARY GLANDS; NESTING-BEHAVIOR; SCARABAEOIDEA; HYPOTHESES; APHODIINAE; CATENATUS; DIVERSITY

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E-mail Addresses: keith.philips@wku.edu

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Price DL Phylogeny and biogeography of the dung beetle genus Phanaeus (Coleoptera: Scarabaeidae) SYSTEMATIC ENTOMOLOGY 34 1 137-150 JAN 2009

Scholtz G Scarab beetles at the interface of wheel invention in nature and culture? CONTRIBUTIONS TO ZOOLOGY 77 3 139-148 2008

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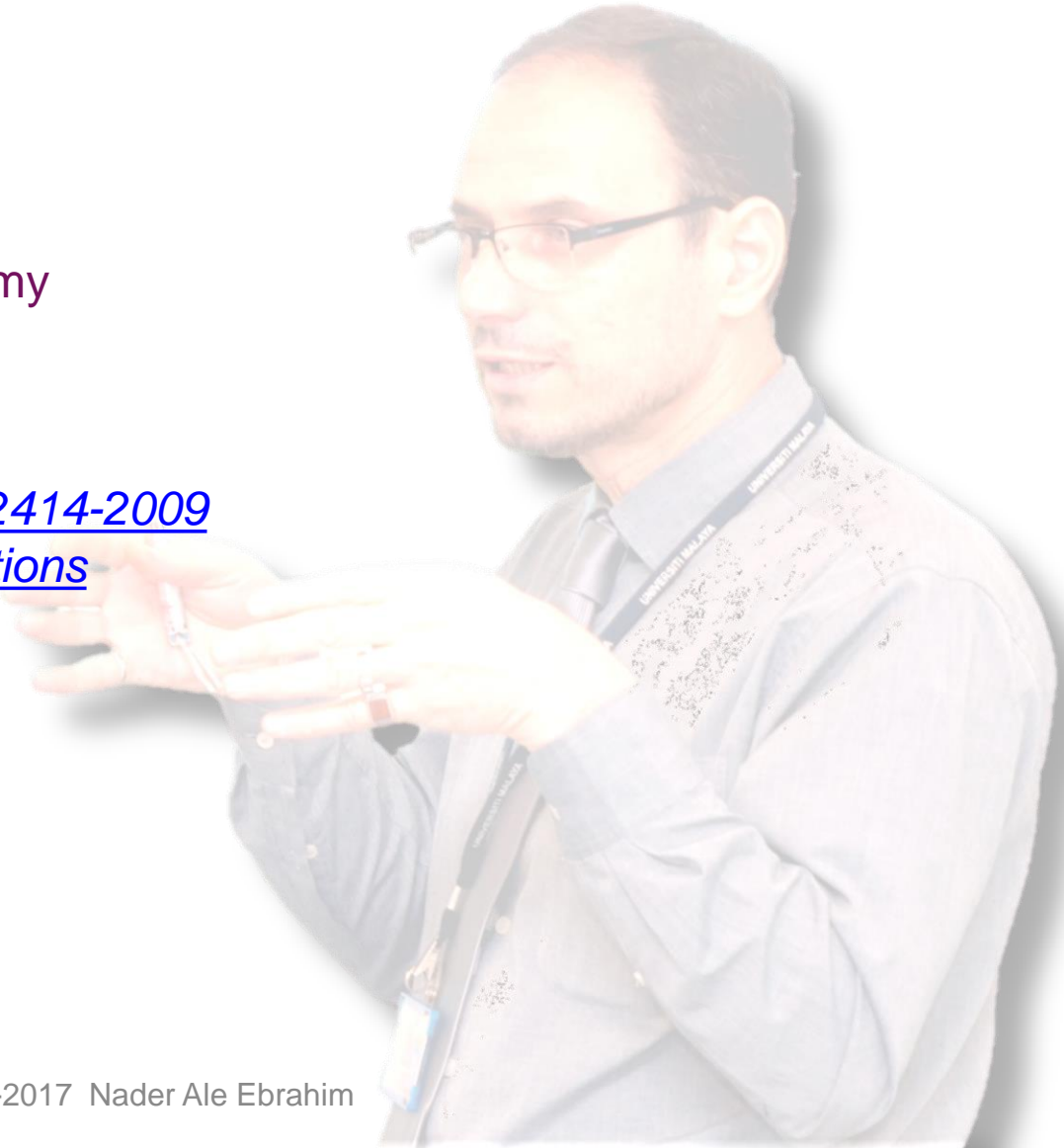
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