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Analysis of Bibliometrics information for select the best field of study

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

9th December 201

Available online at: http://dx.doi.org/10.6084/m9.figshare.1621261

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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.

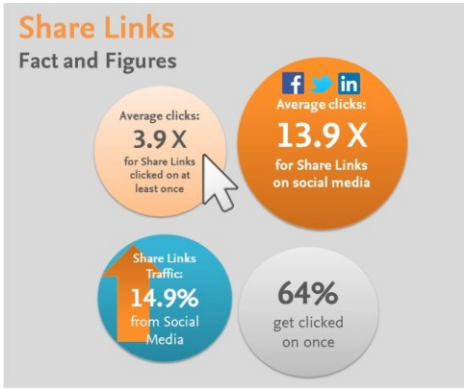
This presentation will provide tools to discover the new trends in our field of study in order to select an area for research and publication which promising the highest research impact.

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

Research Tools Mind Map

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.



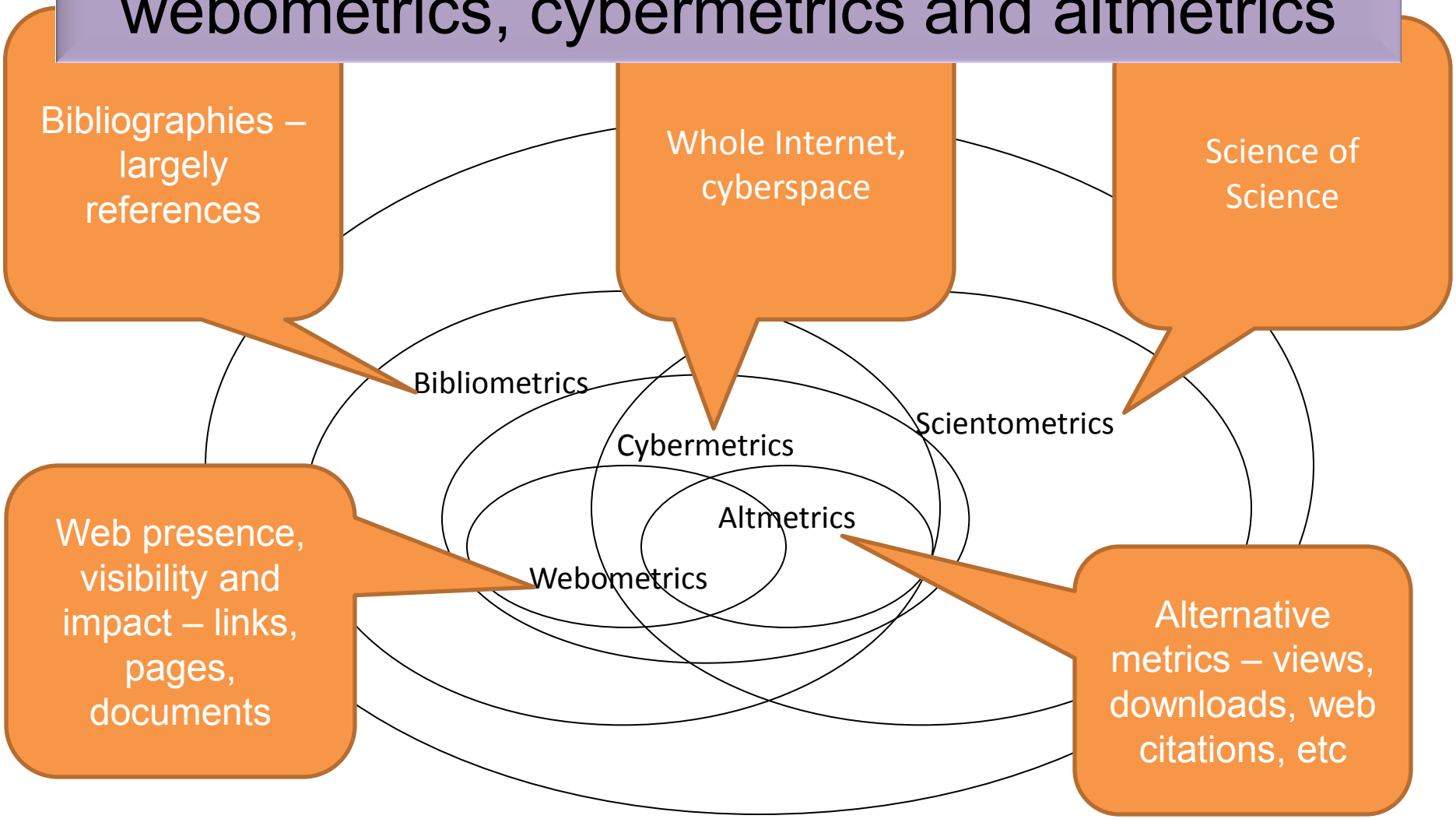
Source: https://www.elsevier.com/reviewers-update/home/featured-article/from-submission-to-sharing-the-life-cycle-of-an-article

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**'.

Source: Thed van Leeuwen, (2010) Application of bibliometric analysis: Advantages & pitfalls, Workshop on Research Evaluation in Statistical Sciences , Bologna, 25th March 2010

Informetrics, scientometrics, bibliometrics, webometrics, cybermetrics and altmetrics



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.

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

Source: https://comminfo.rutgers.edu/~tefko/Courses/e530/Lectures/Lecture09%20Bibliometric%20searching.ppt

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.

Source: https://comminfo.rutgers.edu/~tefko/Courses/e530/Lectures/Lecture09%20Bibliometric%20searching.ppt

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**

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

Major Citation Databases

Name of Citation Database	Launched	Scope	Owned by	Terms of Availability
Science Citation Index (SCI)	1964	Global	Thomson Reuter	Subscription-based with Web of Science
Social Science Citation Index (SSCI)	1972	Global	Thomson Reuter	Subscription-based with Web of Science
Arts & Humanities Citation Index (A&HCI)	1978	Global	Thomson Reuter	Subscription-based with Web of Science
Scopus	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

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.

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

Science Citation Index

Social Sciences Citation Index

Arts & Humanities Citation Index

ISI Web of Knowledge

WOK 4.0

1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2007 2008

SciSearch

Custom citation projects and national indicators - mainframe

PC-based citation sets

PC-based Indicators for journals, nations, institutions

Essential Science Indicators

Century of Science

TS Innovation

Eugene Garfield, Ph.D.

Founder & Chairman Emeritus
Institute for Scientific Information (ISI)

For more Info

The Institute for Scientific Information (ISI)

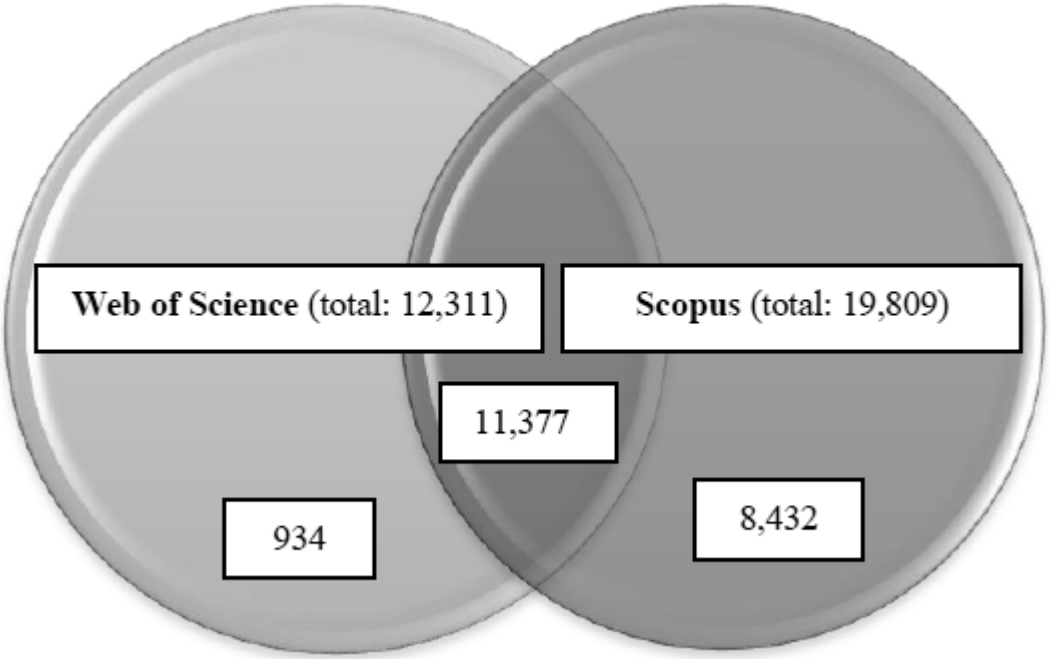
- The ISI also publishes annual Journal Citation Reports which list an impact factor for each of the journals that it tracks. Within the scientific community, journal impact factors play a large but controversial role in determining the kudos attached to a scientist's published research record.

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.

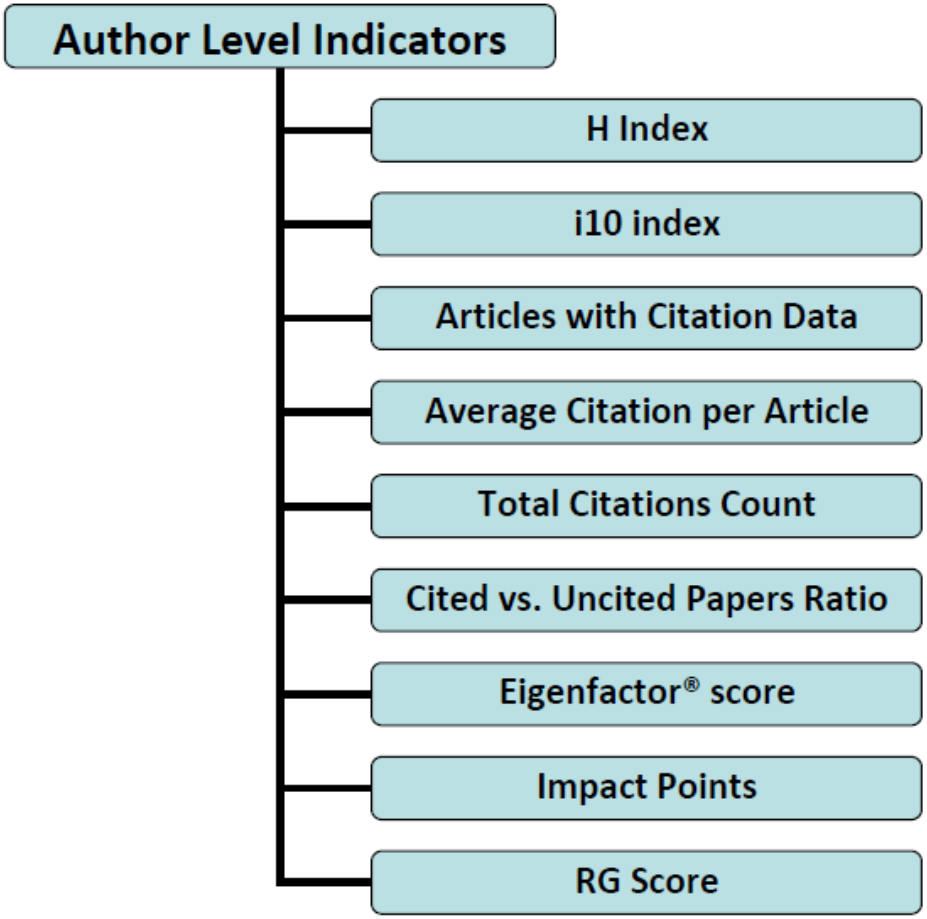
Source: http://www.elsevier.com/online-tools/scopus

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

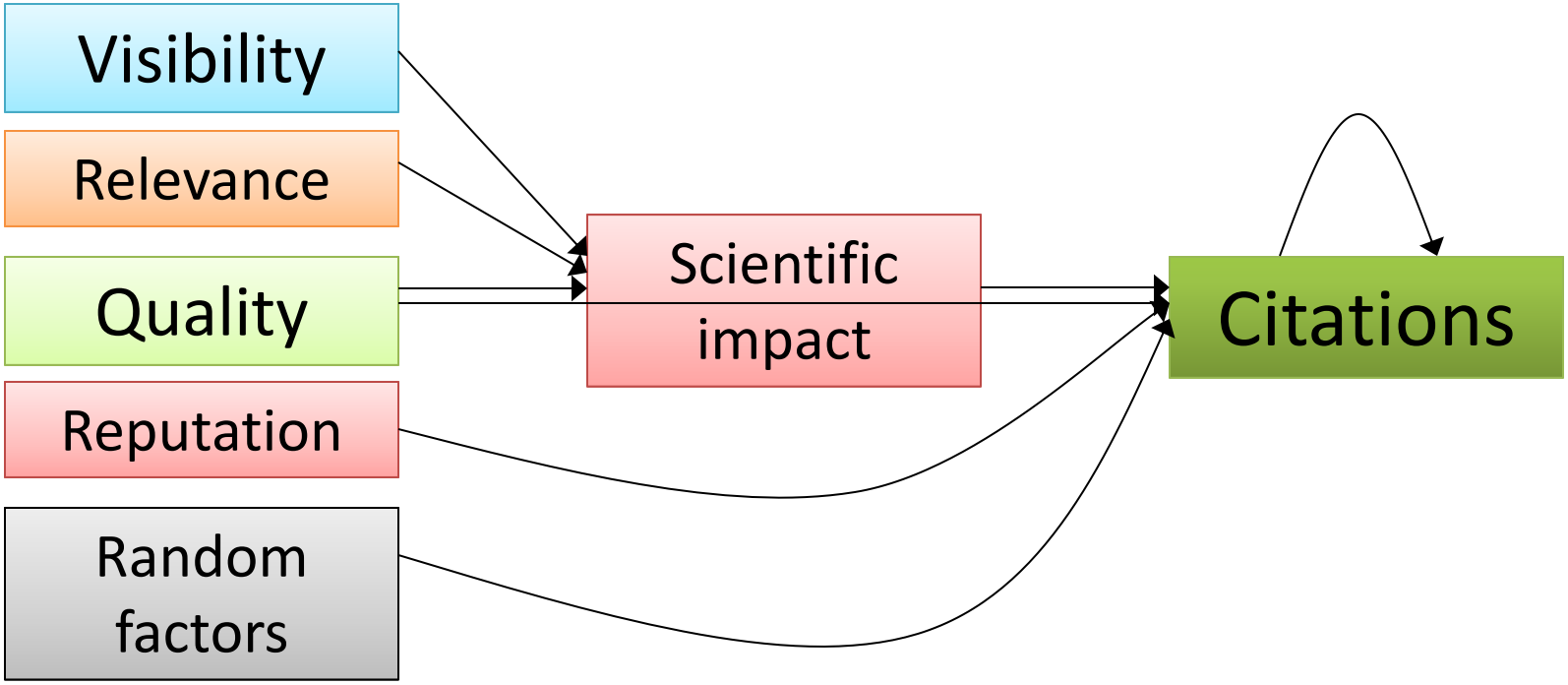


Source: Das, A.-K. (2015). *Research Evaluation Metrics*. 7, place de Fontenoy, 75352 Paris 07 SP, France: United Nations Educational, Scientific and Cultural Organization.

CHECK YOUR SCORE

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

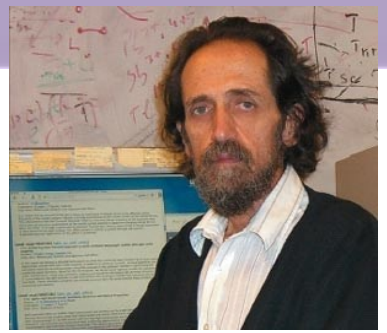
Citations as a proxy of scientific impact



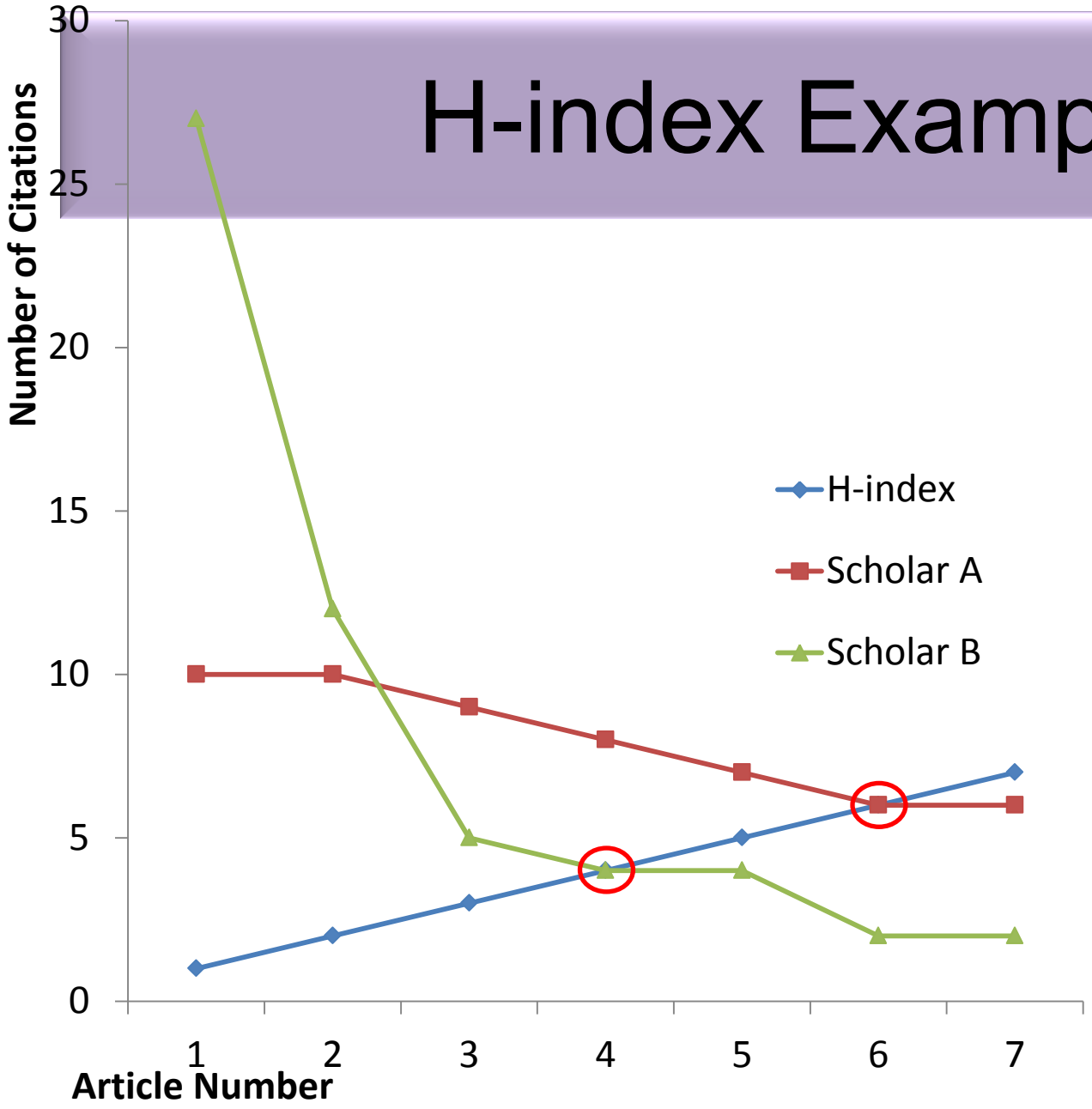
Source: Martijn S. Visser, (2012) Measuring UNL Research: The use and interpretation of bibliometric indicators, Lisbon, 29 June 2012

H and g-index

H-index Example



Jorge E. Hirsch

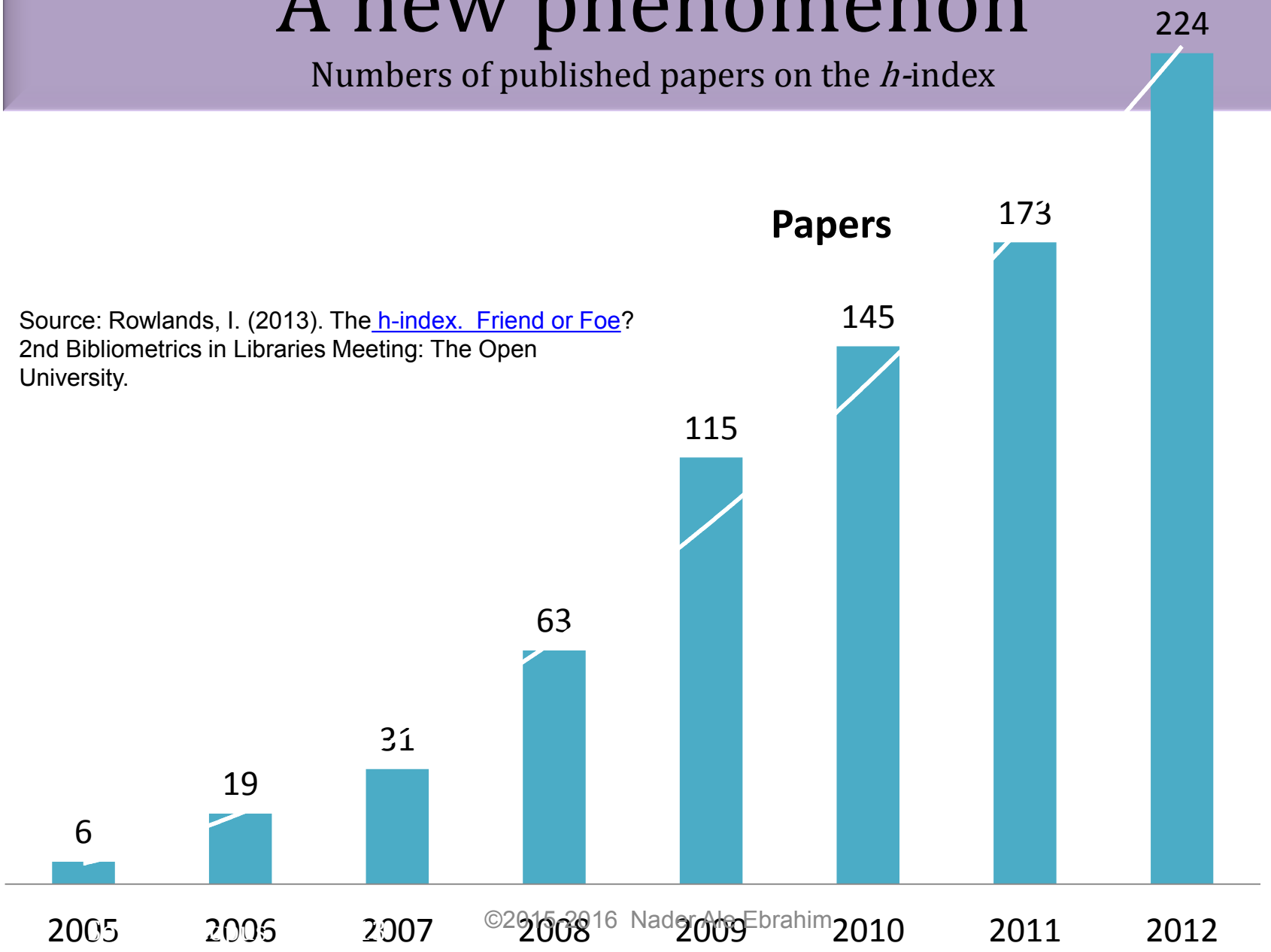


Scholar A	Scholar B
10	27
10	12
9	5
8	4
7	4
6	2
6	2
56 citations	56 citations
6 h-index	4 h-index

Source: http://www.slideshare.net/librarian68/overview-of-citation-metrics

A new phenomenon

Numbers of published papers on the *h*-index



Source: Rowlands, I. (2013). The h-index. Friend or Foe? 2nd Bibliometrics in Libraries Meeting: The Open University.

A scientist has index h if h of his/her Np papers have at least h citations each, and the other (Np-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	30	P1	30	P1	100	P1
2	10	P2	10	P2	70	P2
3	8	P3	8	P3	8	P3
4	6	P4	6	P4	6	P4
5	5	P5	5	P5	5	P5
6	1	P6	4	P6	1	P6
7	0	P7	4	P7	0	P7
8			4	P8		
9			4	P9		

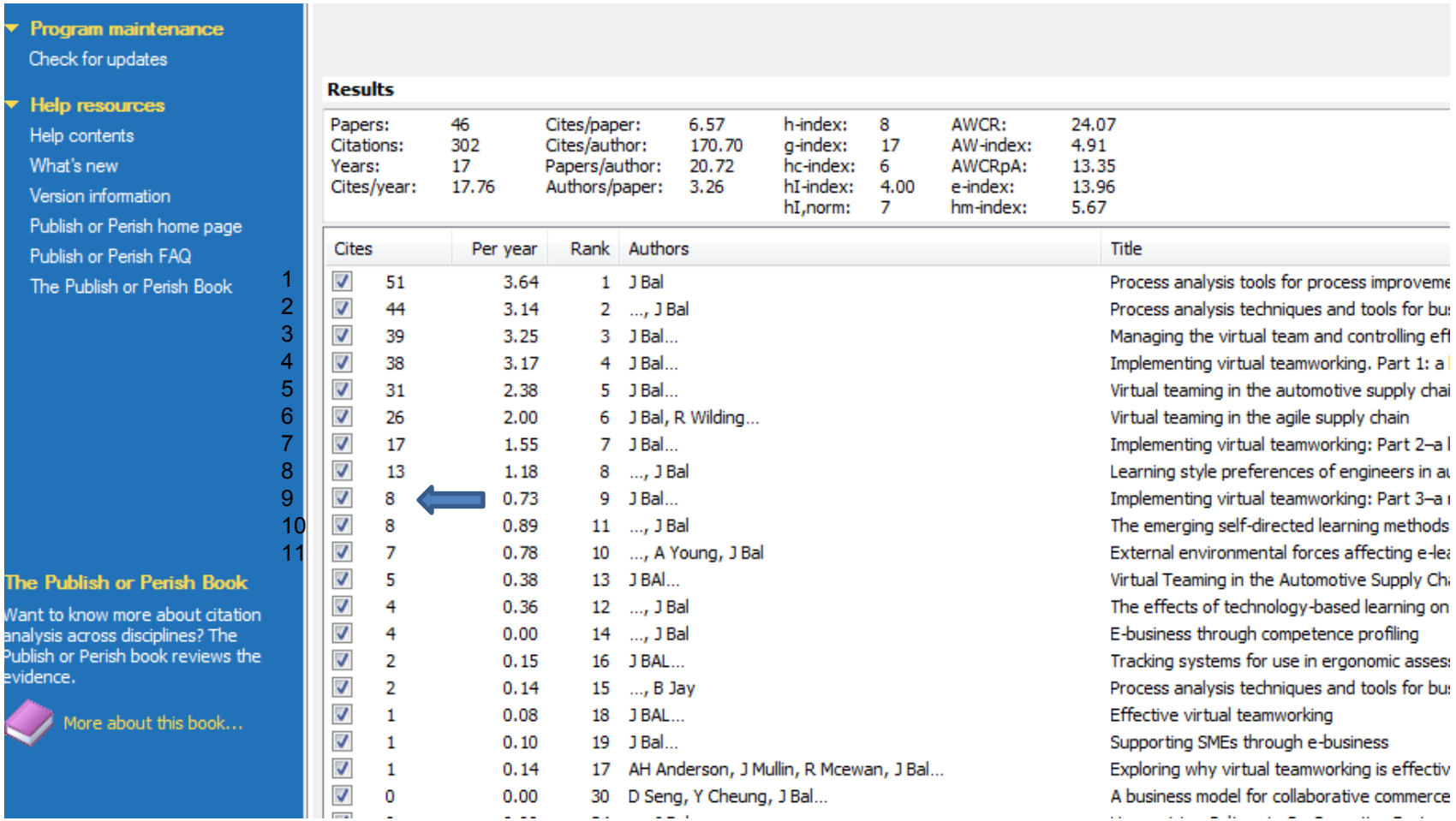
H=? 5 H=? 5 H=? 5

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

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

Targeted advertising



Predicting scientific success

H-index prediction

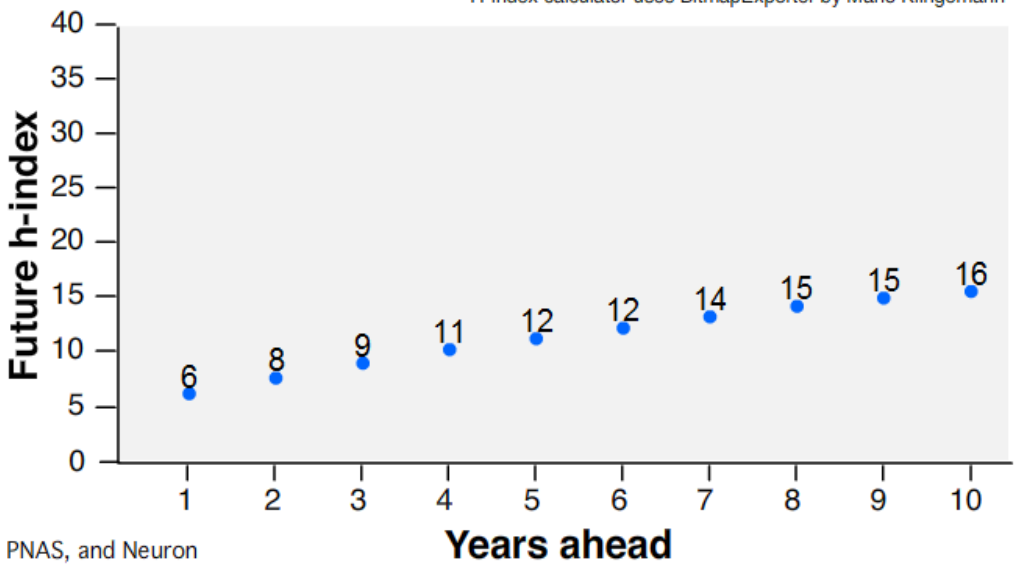
Read details in Acuna, Allesina, Kording, Nature, 489, 201-202 (2012)

Save to file

H-index calculator uses BitmapExporter by Mario Klingemann

H-index	5
# articles	12
Years since first article	8
# distinct journals	5
# articles in 'top' journals*	1

Reset features

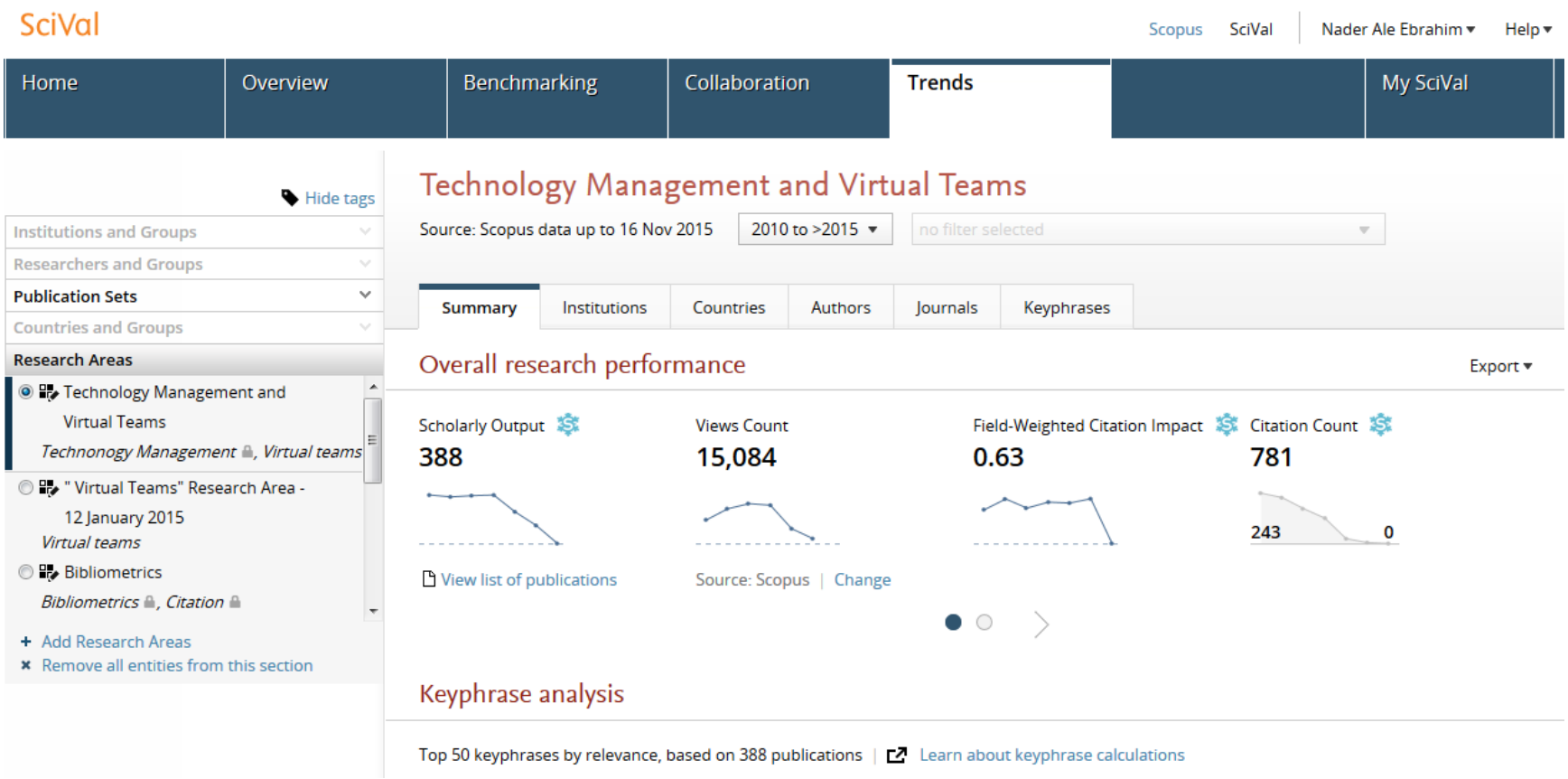


* Nature, Science, Nature Neuroscience, PNAS, and Neuron

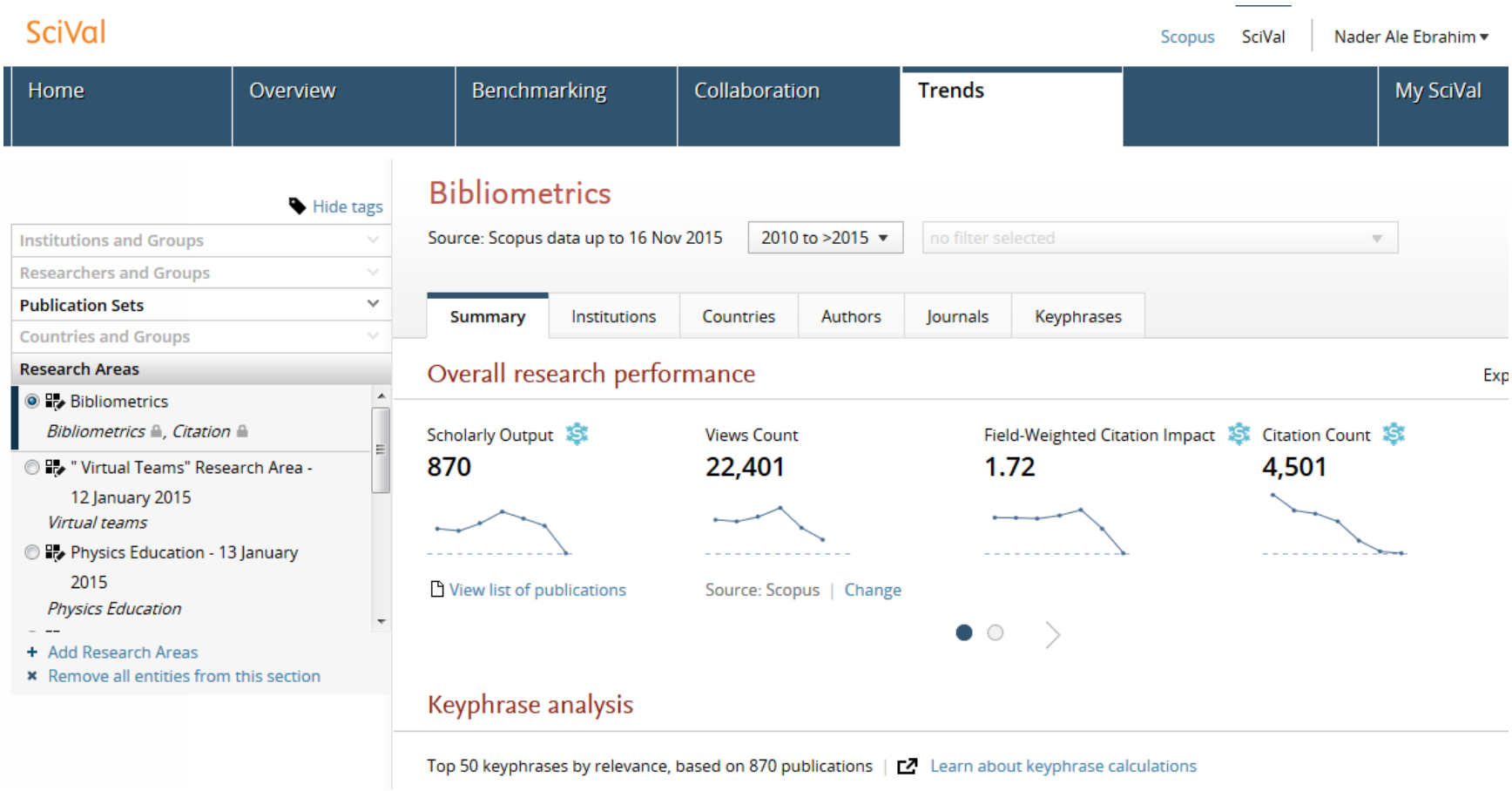
 # distinct journals: number of different journals where you have published in.

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.

Technology Management and Virtual Teams



Bibliometrics



SCOPUS - Analyze author output

Combined data for multiple authors

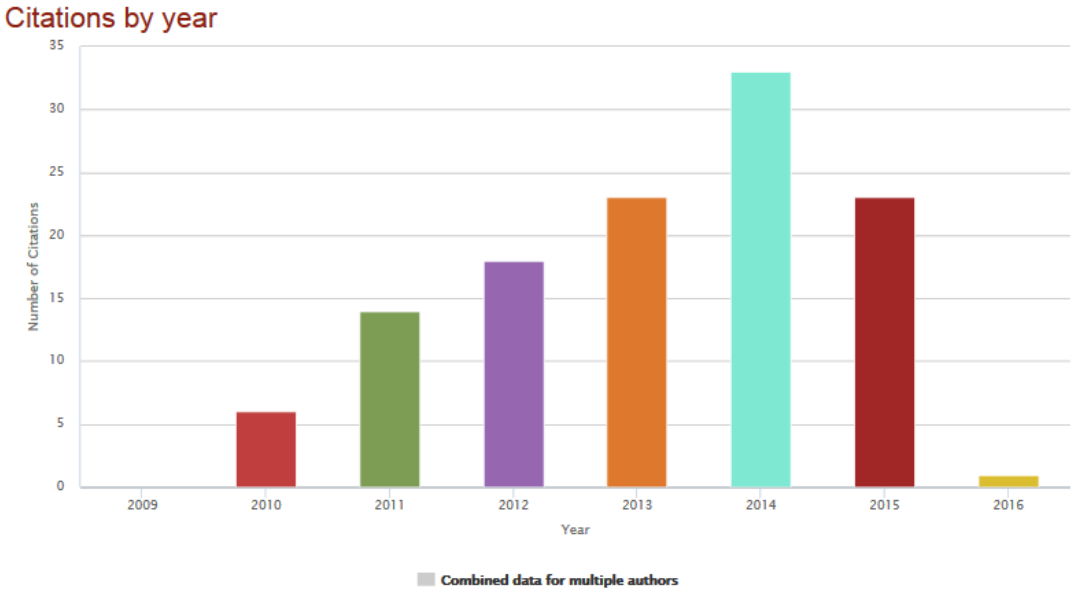
Ebrahim, Nader Ale; Ale Ebrahim, Nader

Back to citation overview

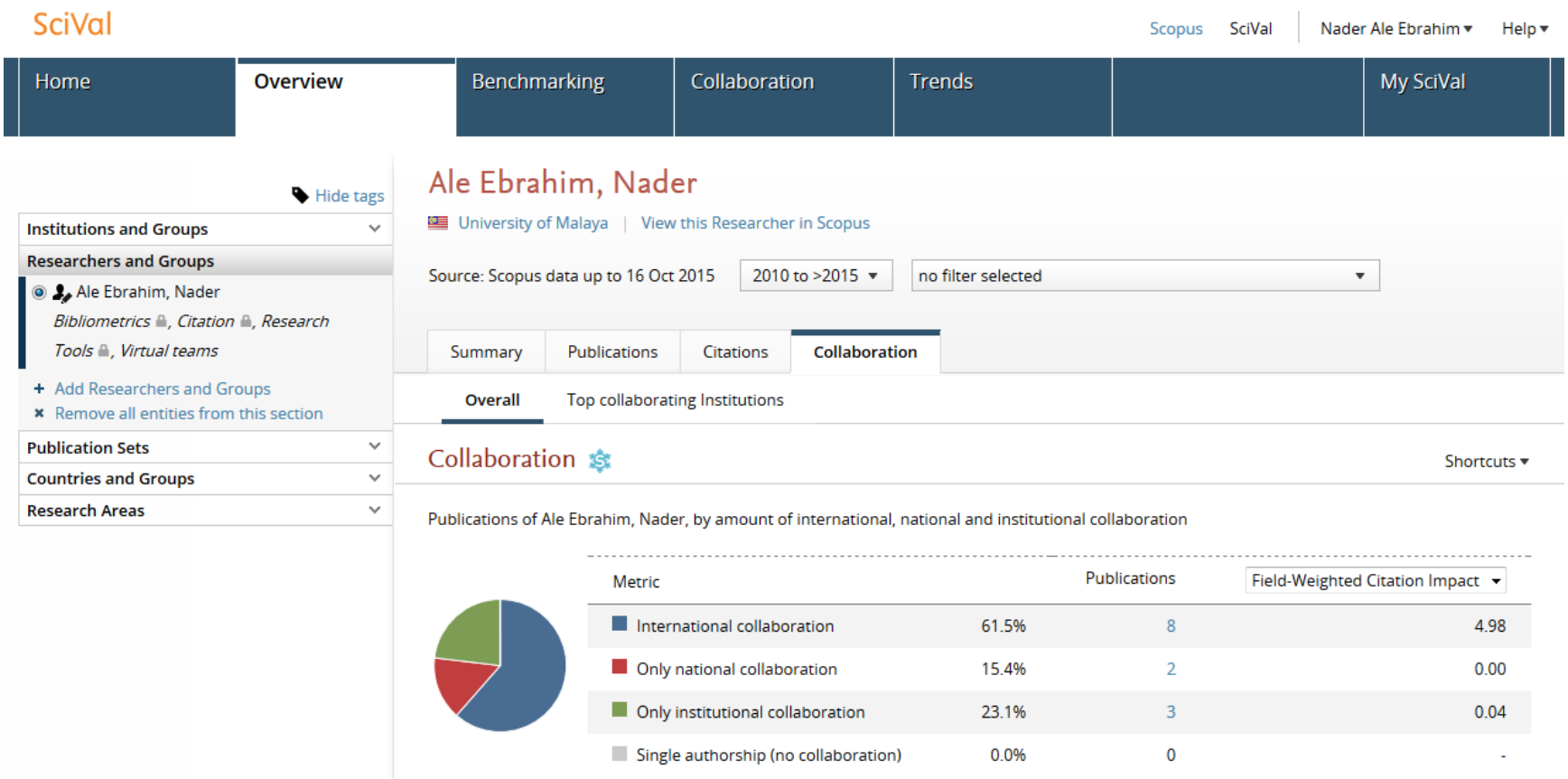
Documents (18) | *h*-index (6) | **Citations (118)** | Co-authors (33)

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



SciVal - Elsevier Research Intelligence



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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)
- BUSINESS (172)
- COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS (118)

more options / values...

Sort by: Publication Date -- newest to oldest

Page 1 of 122

Select Page | Save to EndNote online | Add to Marked List

Analyze Resul
Create Citation Repo

1. **Leading Effective Global Virtual Teams: The Consequences of Methods of Communication**
By: Morgan, Lisa; Paucar-Caceres, Alberto; Wright, Gillian
SYSTEMIC PRACTICE AND ACTION RESEARCH Volume: 27 Issue: 6 Pages: 607-624 Published: DEC 2014
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*

2. **Understanding the attitudes, knowledge sharing behaviors and task performance of core developers: A longitudinal study**
By: Licorish, Sherlock A.; MacDonell, Stephen G.
INFORMATION AND SOFTWARE TECHNOLOGY Volume: 56 Issue: 12 Special Issue: SI Pages: 1578-1596 Published: DEC 2014
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*

3. **A Calibrated Group Decision Process**
By: Rokou, Elena; Kirytopoulos, Konstantinos
GROUP DECISION AND NEGOTIATION Volume: 23 Issue: 6 Special Issue: SI Pages: 1369-1384 Published: NOV 2014
Full Text from Publisher | View Abstract
Times Cited: 0 *(from Web of Science Core Collection)*

4. **Satisfaction with outcome and process from web-based meetings for idea generation and**
Times Cited: 0

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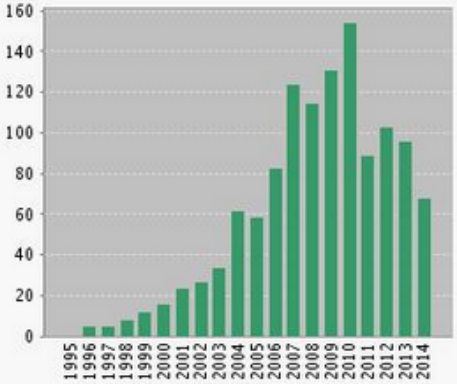
Citation Report: 1218

(from Web of Science Core Collection)

You searched for: TOPIC: ("virtual team*") ...More

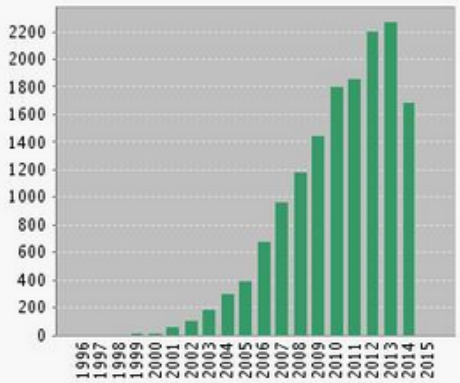
This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Published Items in Each Year



The latest 20 years are displayed.
View a graph with all years.

Citations in Each Year

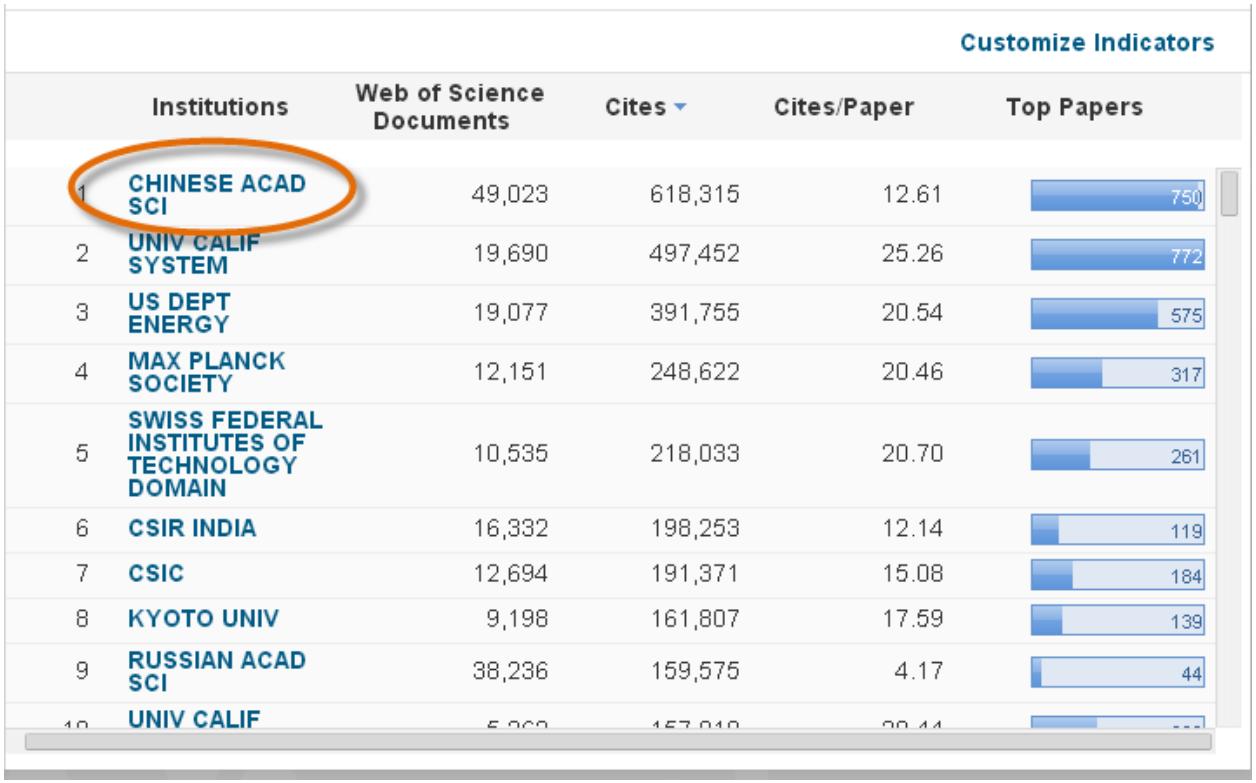


The latest 20 years are displayed.
View a graph with all years.

Results found:	1218
Sum of the Times Cited [?]:	15217
Sum of Times Cited without self-citations [?]:	10399
Citing Articles [?]:	8040
Citing Articles without self-citations [?]:	7210
Average Citations per Item [?]:	12.49
h-index [?]:	58

DATA DRILL DOWN: CITATION TRENDS

Users can view citation trends for any entity in the rankings list. For example, if the user clicks on the name CHINESE ACAD SCI:



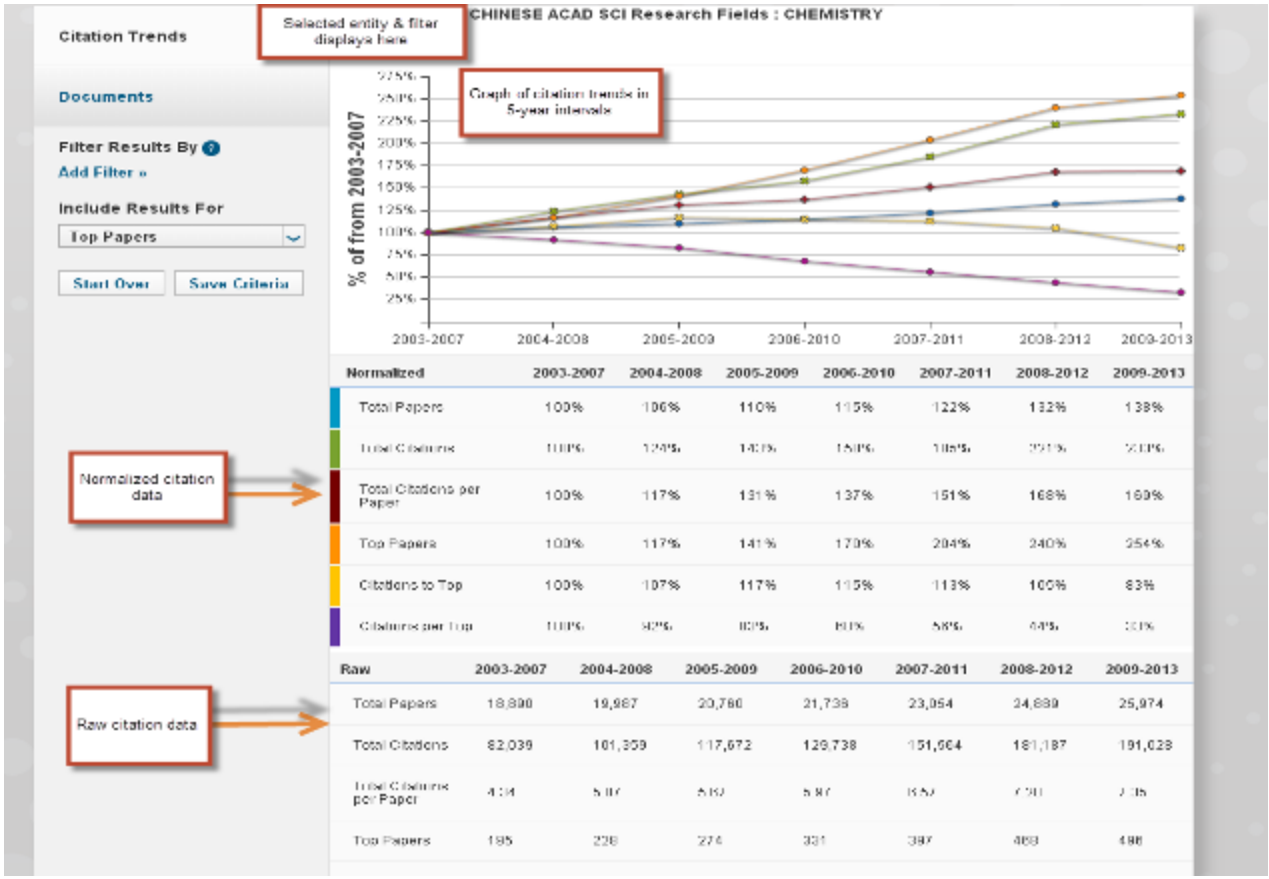
Customize Indicators

	Institutions	Web of Science Documents	Cites	Cites/Paper	Top Papers
1	CHINESE ACAD SCI	49,023	618,315	12.61	750
2	UNIV CALIF SYSTEM	19,690	497,452	25.26	772
3	US DEPT ENERGY	19,077	391,755	20.54	575
4	MAX PLANCK SOCIETY	12,151	248,622	20.46	317
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
8	KYOTO UNIV	9,198	161,807	17.59	139
9	RUSSIAN ACAD SCI	38,236	159,575	4.17	44
10	UNIV CALIF				

Source: MASSIMILIANO CARLONI (2014) THE NEW JCR, Journal Citation Reports on INCITES, Strategic Business Manager, Thomson Reuters

DATA DRILL DOWN: CITATION TRENDS

They will be taken to the Citation Trends Page for the Chinese Academy of Sciences, which shows a trend graph, normalized citation data, and raw citation data:



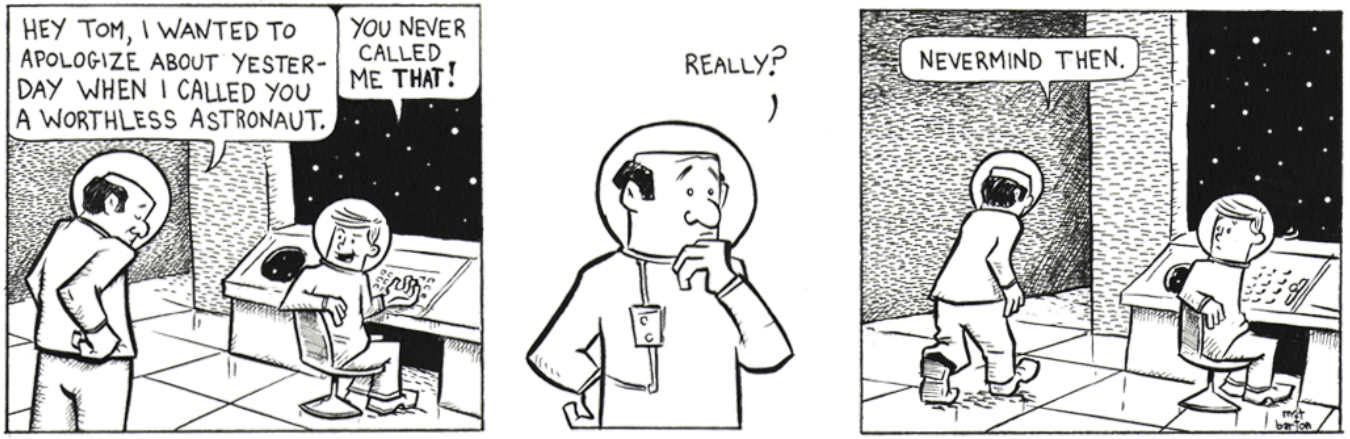
Source: MASSIMILIANO CARLONI (2014) THE NEW JCR, Journal Citation Reports on INCITES, Strategic Business Manager, Thomson Reuters

Practical Advice

- Find out what's Hot
  - http://info.scopus.com/topcited/
  - http://top25.sciencedirect.com/
- Find the trends of the subject area
  - Search tips (including alerts)
  - Journals, authors, publications per year (Scopus)

Source: How To Get Your Article Published: *From title to references, From submission to revision* Presented by: Anthony Newman, Elsevier, Amsterdam, *Birmingham, Nov. 2010*

Your paper is worthless if no one reads, uses, or cites it



A research study is meaningful only if…

- it is clearly described, so
- someone else can use it in his/her studies
- it arouses other scientists' interest and
- allows others to reproduce the results.

By submitting a manuscript you are basically trying to sell your work to your community…

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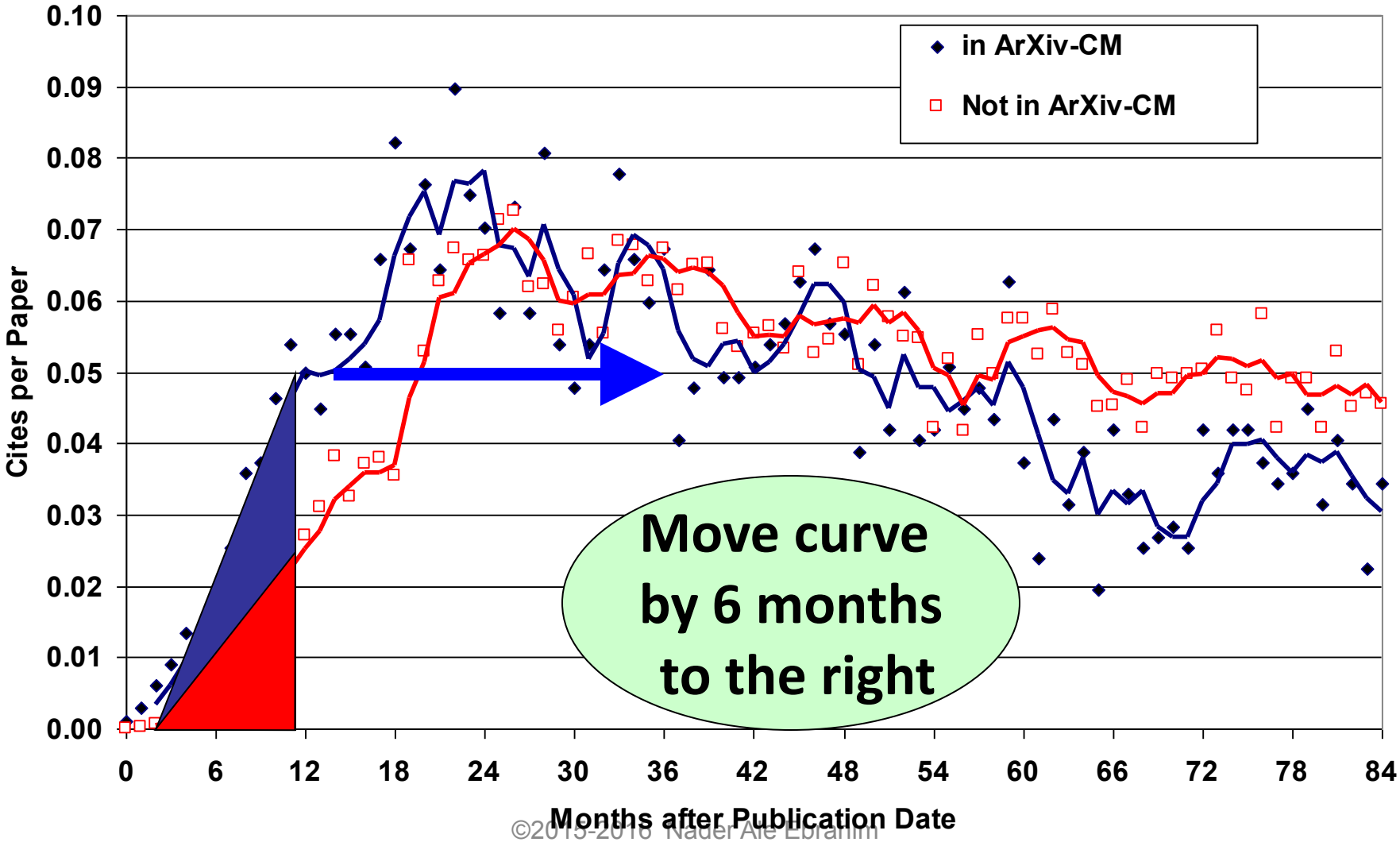

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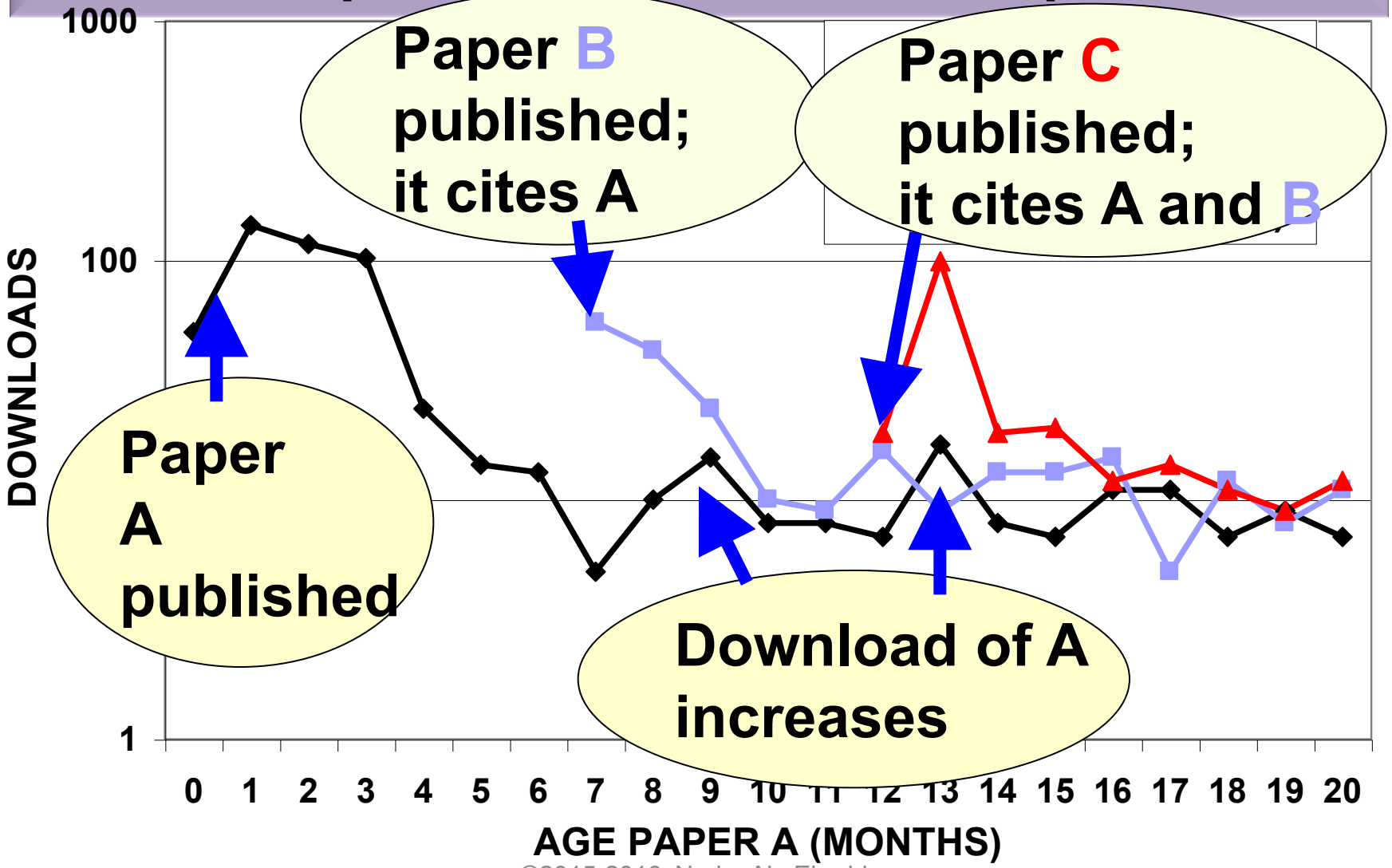

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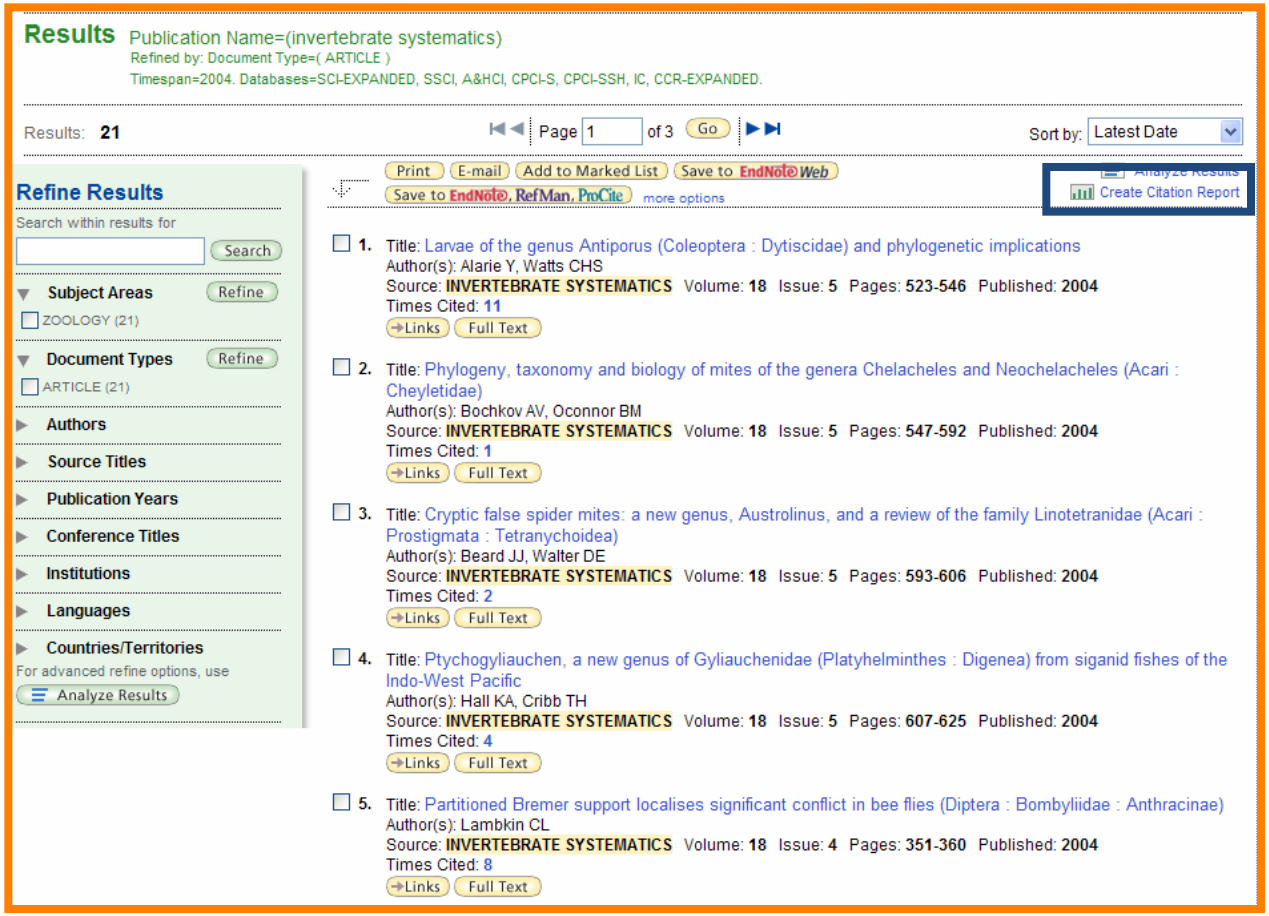

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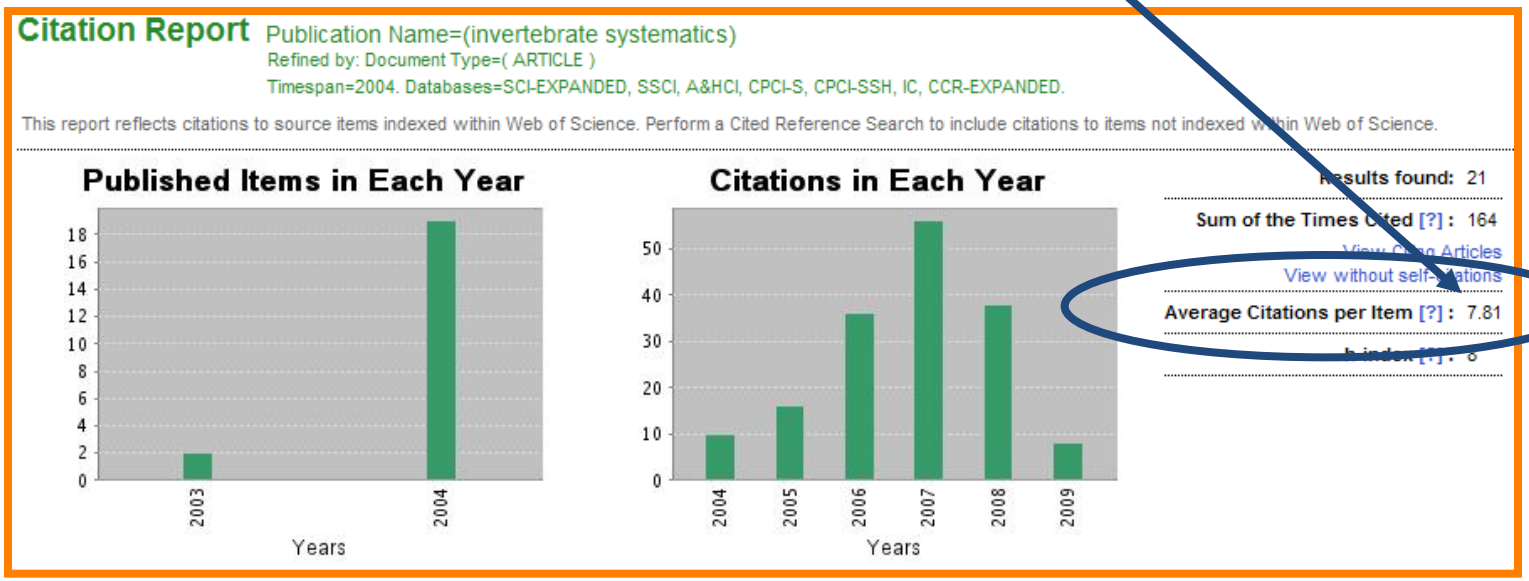

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RELATIVE IMPACT AGAINST JOURNAL AVERAGE

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We call this journal actual versus expected cites (JXC)

A phylogenetic analysis of dung beetles (Scarabaeinae : Scarabaeidae): unrolling an evolutionary history

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Author(s): Philips TK, Pretorius E, Scholtz CH

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

Times Cited: 22 **References:** 73 Citation Map

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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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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