

SCOPUS TODAY – INTERNATIONAL RECOGNITION AND ITS ROLE IN CZECH R&D ENVIRONMENT

*Present and Future National Research Evaluation and
the Role of Bibliometrics*

11. prosince, 2014, Národní technická knihovna

Lucie Vavříková, Country manager, Elsevier

l.vavrikova@elsevier.com

Role of Research is changing

Past



**“Thinking and understanding
the world”**

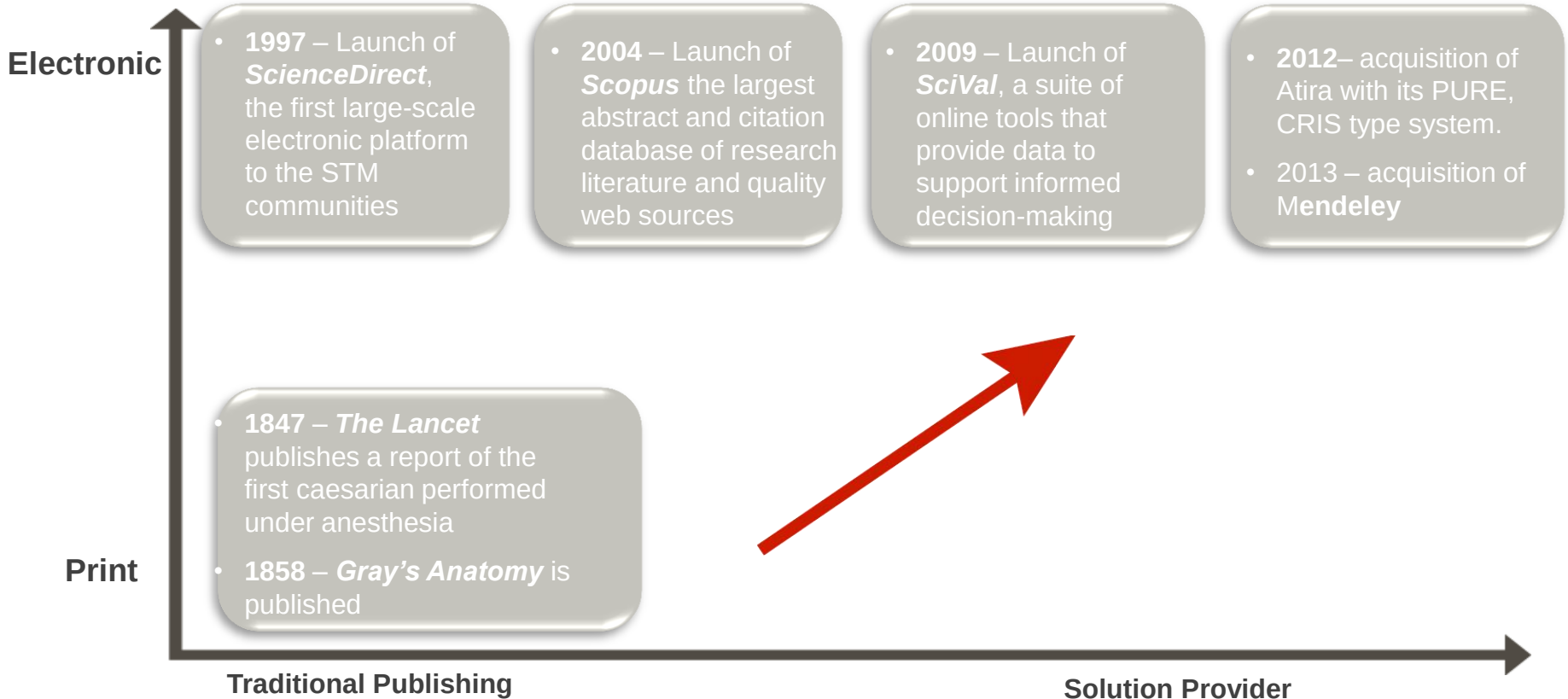
Today



**“Enabling and
contributing to the world”**

Elsevier has been working closely with the research community for over 125 year

Scopus



Elsevier is a pioneer in the development of electronic tools that demonstrably improve the productivity and decision-making of our science and healthcare customers

The broad source for research answers

Scopus

21,750
active titles

20,698
Peer reviewed journals

404
Trade journals

389
Book series

263
Conf. series

A rich and
extended
coverage
including

21.3M pre-1996 records
30.3M post-1995 records
>51.6M records

17k conference events
5M total conference records (10%)

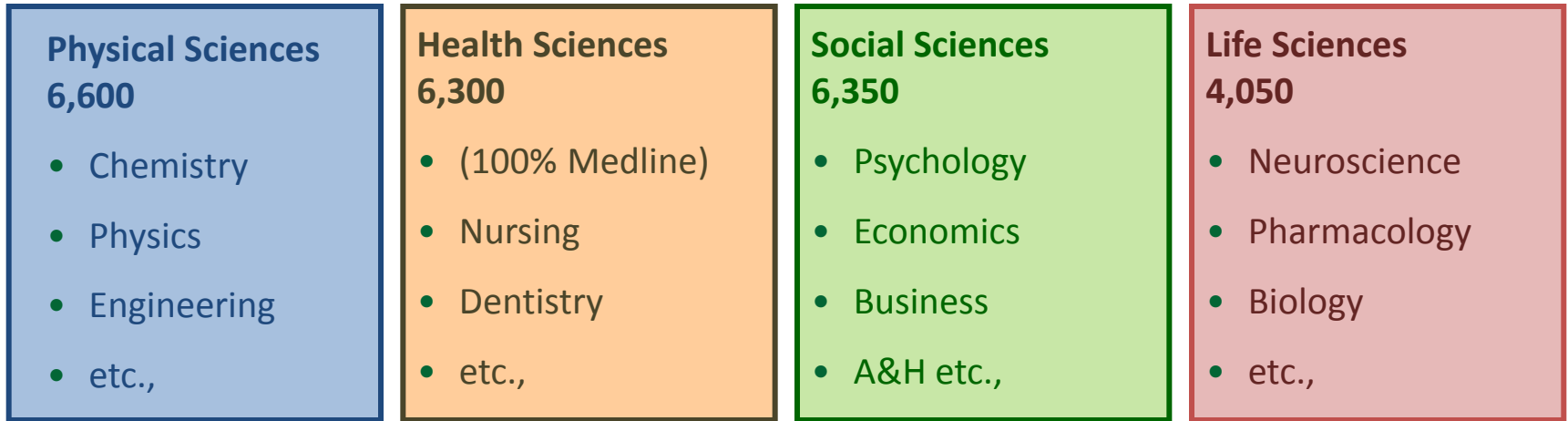
>12,000 books
155k book items (chapters & books)

- Content from > 5,000 publishers
- “Articles in Press” from > 3,750 titles
- > 2,800 fully OA titles
- Abstracts going back to 1823
- 40 languages covered
- 24M Patents

Total average processing time: 5 days

Breadth of coverage across subject areas

Scopus



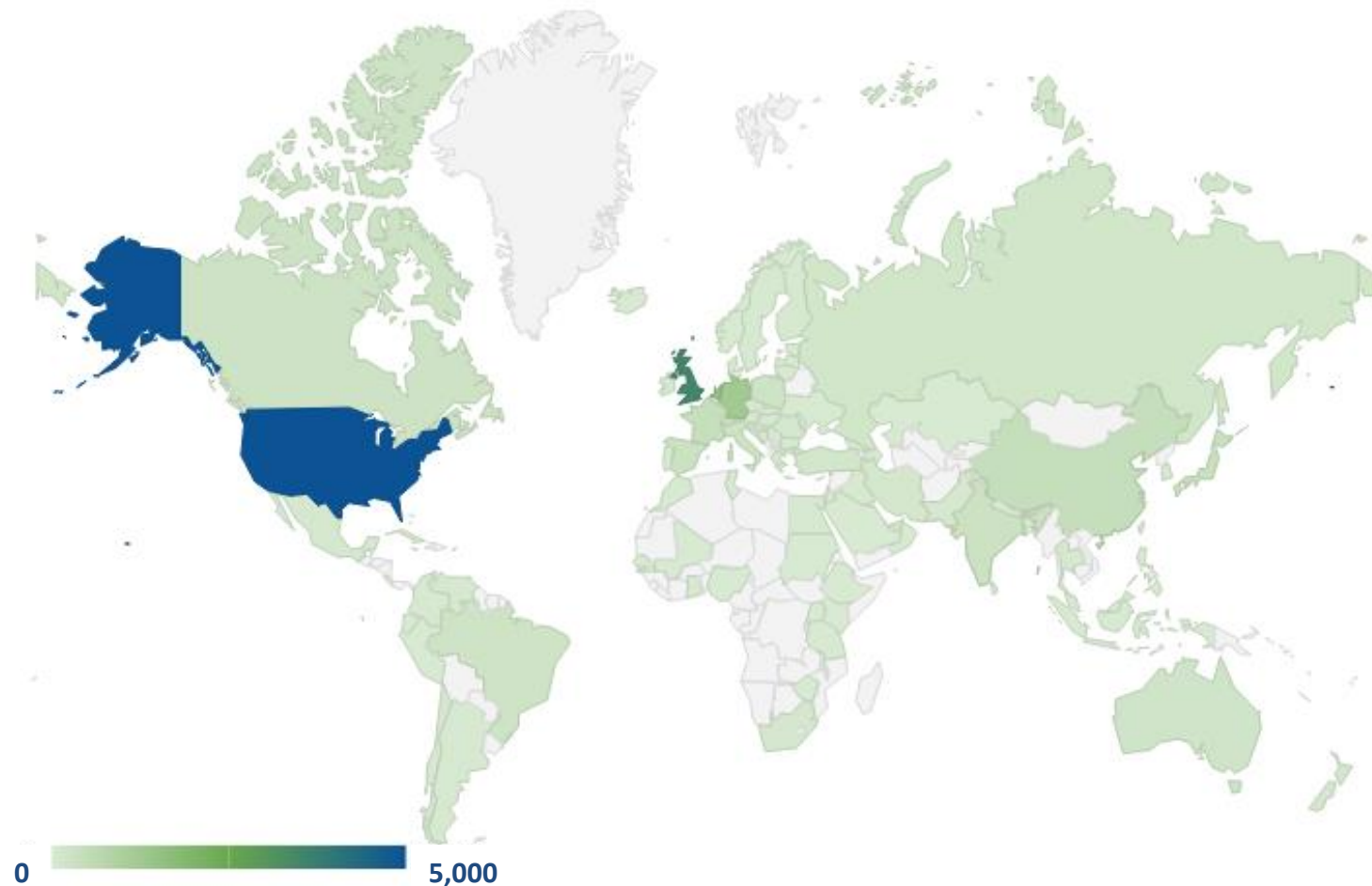
More than 20,400 titles in Scopus, titles can be in more than one subject area

Books in Scopus

Scopus has started to increase book coverage to 75,000 titles (project completion date 2015).

Geographical distribution of titles

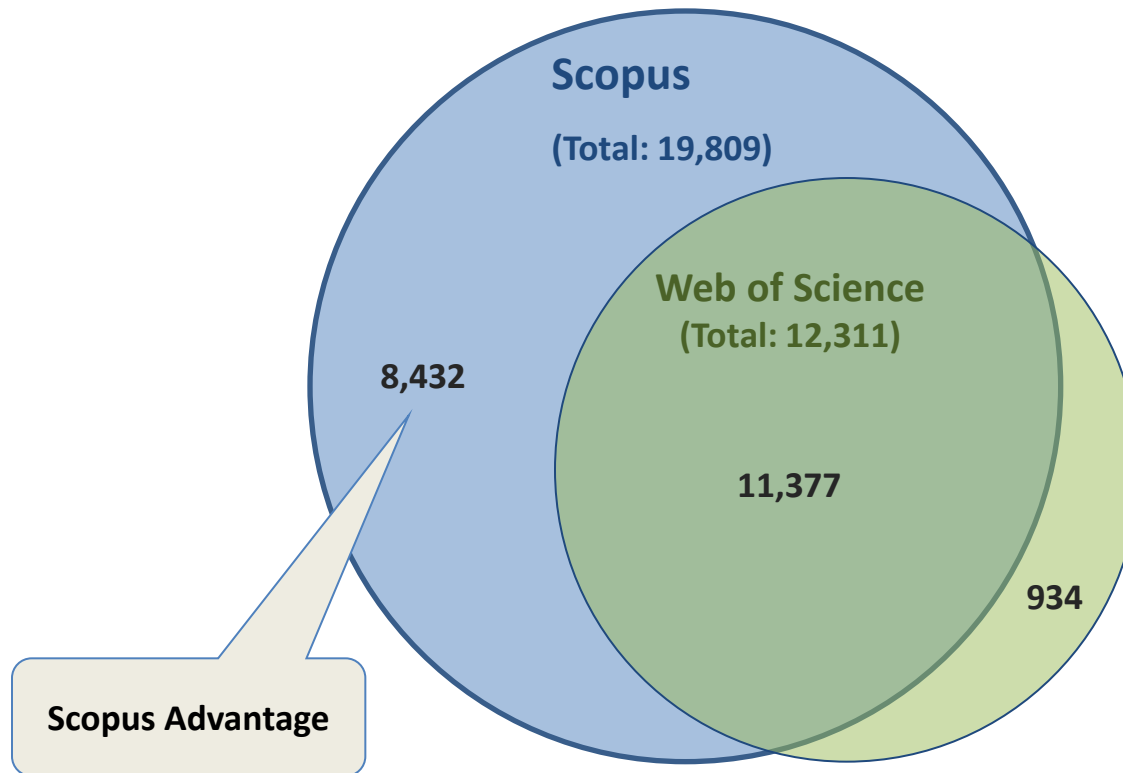
Scopus



Wider coverage gives a more accurate picture of the research landscape

Broader coverage than nearest peer

Scopus



Source: <http://adat.crl.edu/>, May 2012

Broader coverage = higher citations

Scopus

[View at publisher](#) | [Full Text](#) | [Library Catalogue](#) | [View in EMBASE](#) | [Download](#) | [Export](#) | [Print](#) | [E-mail](#) | [Create bibliography](#) | [Add to](#)

Nature

Volume 409, Issue 6822, 15 February 2001, Pages 860-921

Initial sequencing and analysis of the human genome

Lander, E.S.^a , Linton, L.M.^a, Birren, B.^a, Nusbaum, C.^a, Zody, M.C.^a, Baldwin, J.^a, Devon, K.^a, Dewar, K.^a, Doyle, M.^a, Gage, D.^a, Harris, K.^a, Heaford, A.^a, Howland, J.^a, Kann, L.^a, Lehoczy, J.^a, Levine, R.^a, McEwan, P.^a, McKernan, K.^a,

Cited by since 1996

This article has been cited **9456** times in Scopus:
(Showing the 2 most recent)

Iida, A., Hosono, N., Sano, M.
Novel deletion mutations of OPTN in amyotrophic lateral sclerosis in Japanese
(2012) *Neurobiology of Aging*

Ice, J.A., Li, H., Adrianto, I.
Genetics of Sjögren's syndrome in the genome-wide association era
(2012) *Journal of Autoimmunity*

Web of Science®

Title: Initial sequencing and analysis of the human genome

Author(s): Lander ES ; Linton LM ; Birren B ; et al.

Group Author(s): Int Human Genome Sequencing Conso

Source: NATURE Volume: 409 Issue: 6822 Pages: 860-921 DOI: 10.1038/35057062 Published: FEB 15 2001

8,870 in Web of Science



Expansive coverage does not mean lower standards

Scopus



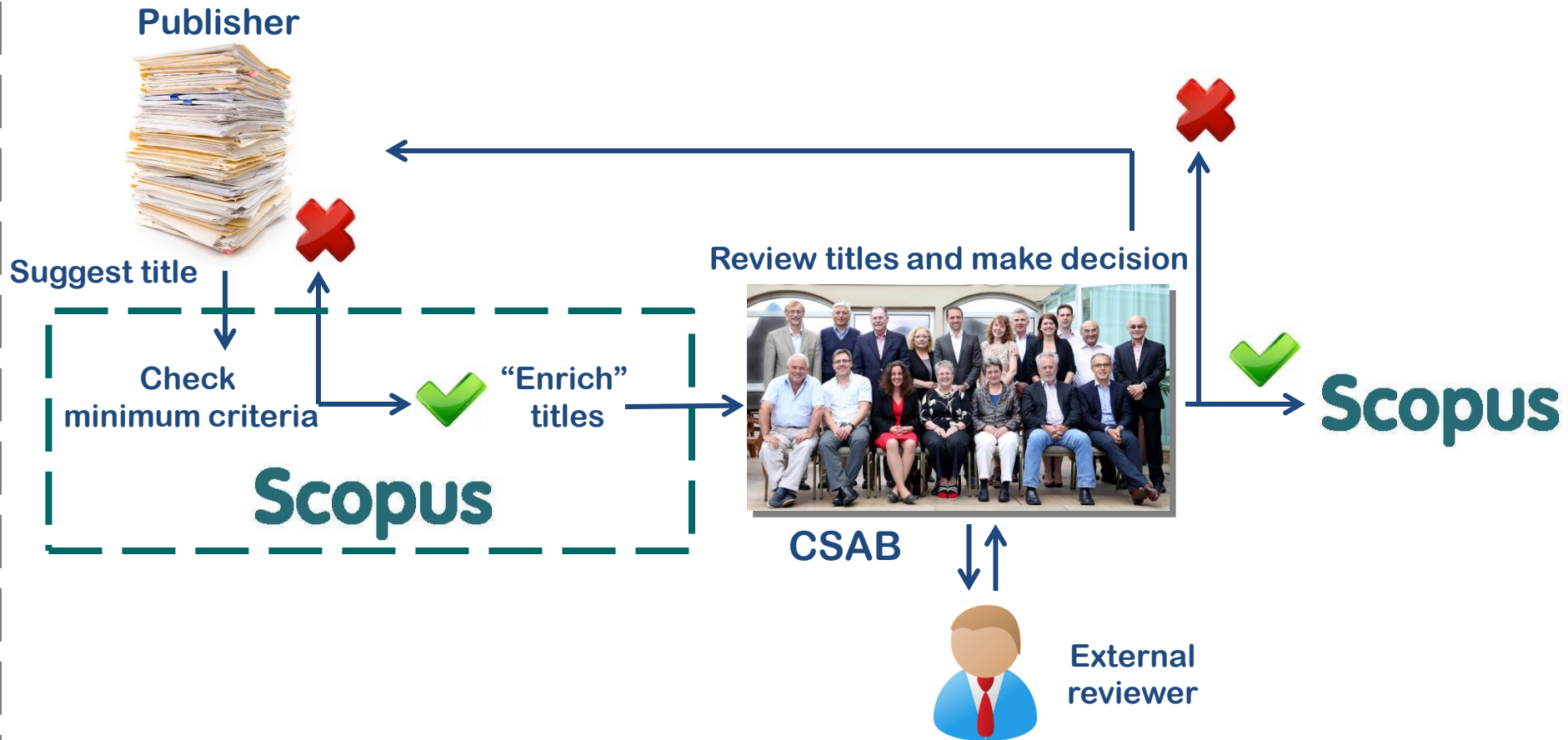
Independent Content Selection & Advisory Board (CSAB)

Focus on quality through selection by independent CSAB to:

- Provide accurate and relevant search results for users
- No dilution of search results by irrelevant or low quality content
- Support that Scopus is recognized as authoritative
- Support confidence that Scopus is “reflecting the truth”
- Assurance that titles selected by Scopus meet the highest (ethical) standards

Scopus title evaluation process

Scopus



Titles processed via the online Scopus Title Evaluation Platform (STEP)

STEP

Minimum criteria

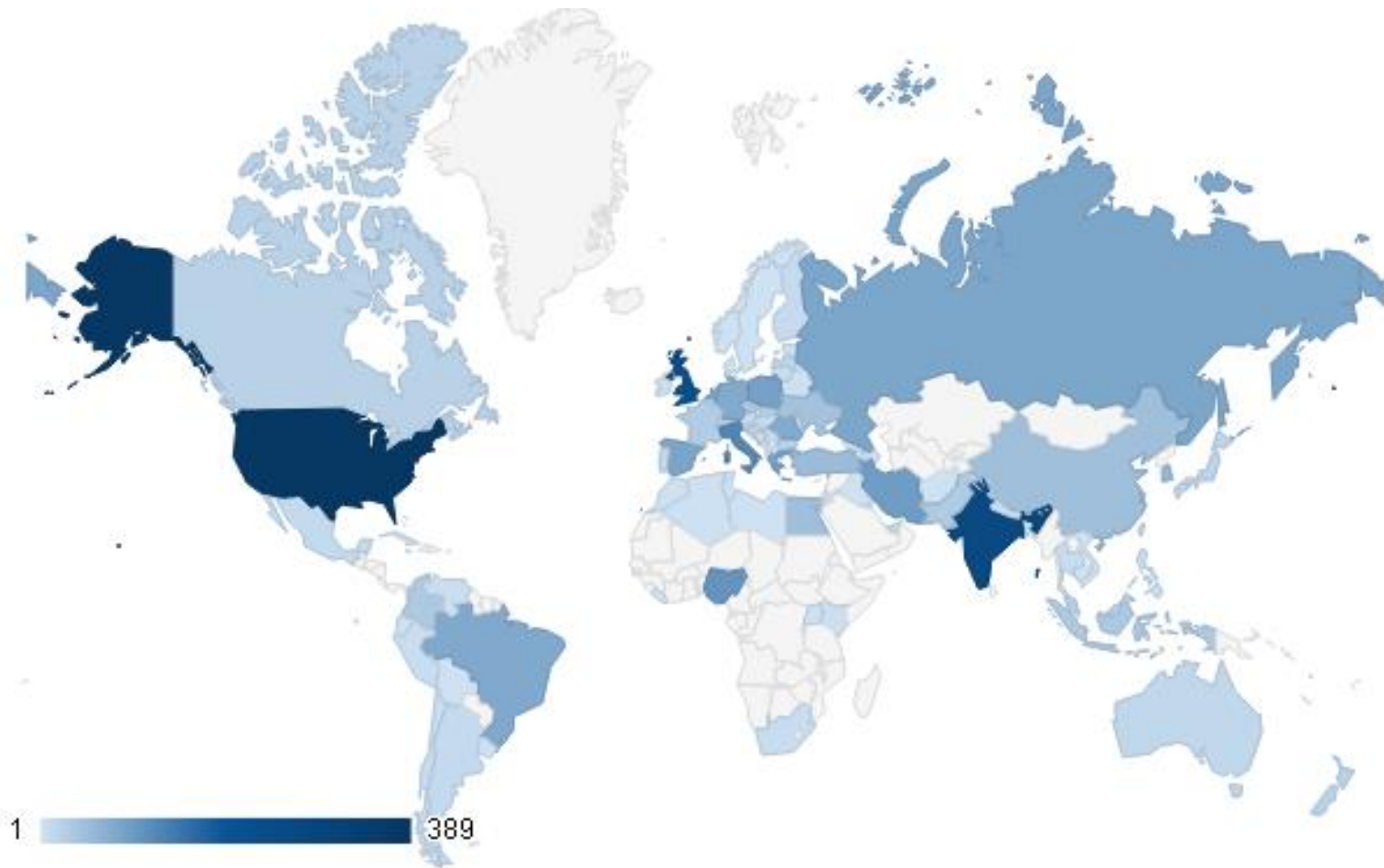
- Peer-review
- English abstracts
- Regular publication
- References in Roman script
- Publication ethics statement

Journal policy	<ul style="list-style-type: none">• Convincing editorial concept/policy• Level of peer-review• Diversity in geographic distribution of editors• Diversity in geographic distribution of authors
Quality of content	<ul style="list-style-type: none">• Academic contribution to the field• Clarity of abstracts• Quality and conformity with stated aims & scope• Readability of articles
Journal standing	<ul style="list-style-type: none">• Citedness of journal articles in Scopus• Editor standing
Regularity	<ul style="list-style-type: none">• No delay in publication schedule
Online availability	<ul style="list-style-type: none">• Content available online• English-language journal home page• Quality of home page

Title suggestions per country

Scopus

All title suggestions received in 2012

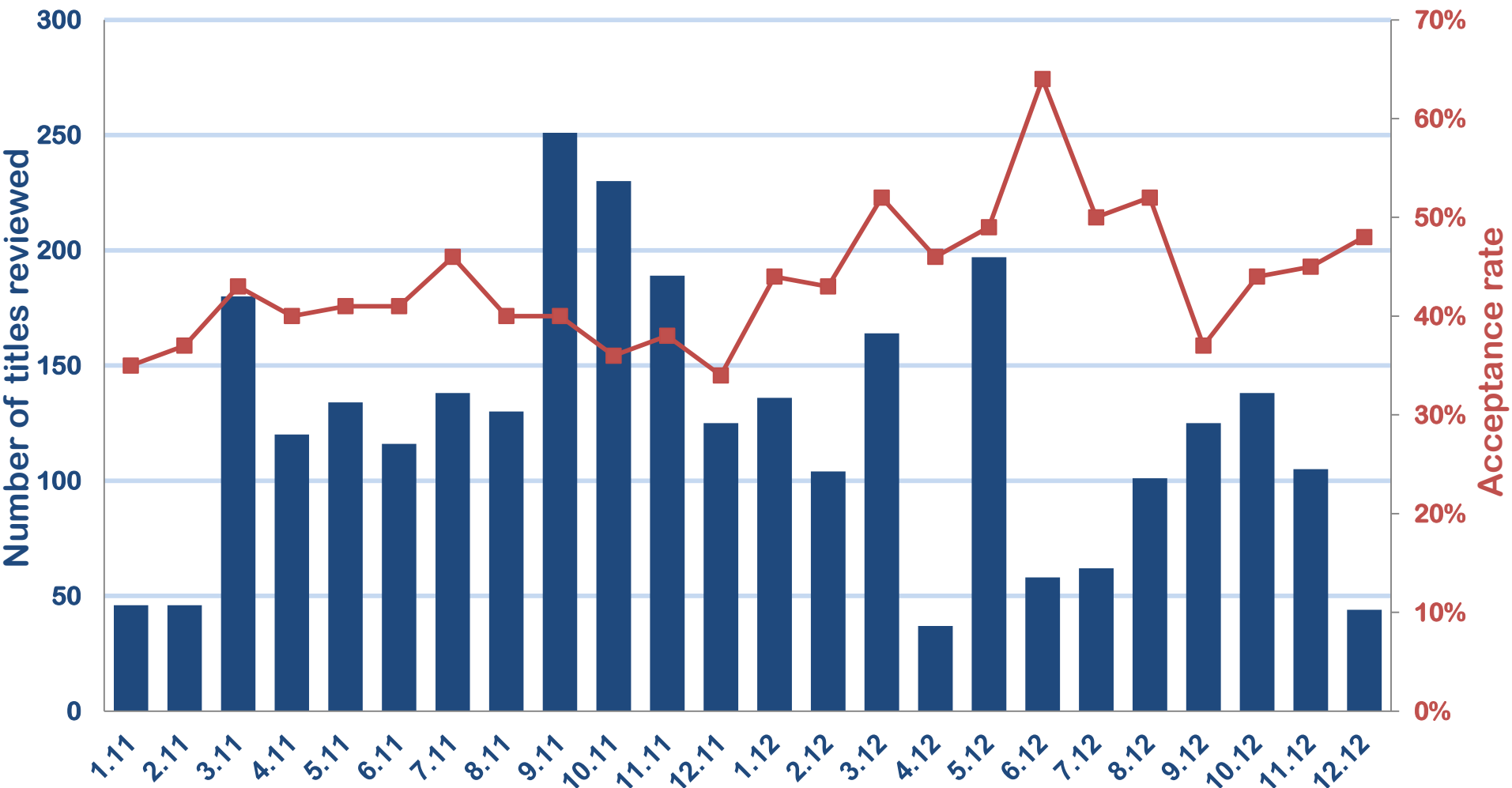


2,820 titles suggested in 2012 of which 1,020 acceptable for review

Titles reviewed

Scopus

(n=2,976, January 2011 – December 2012)

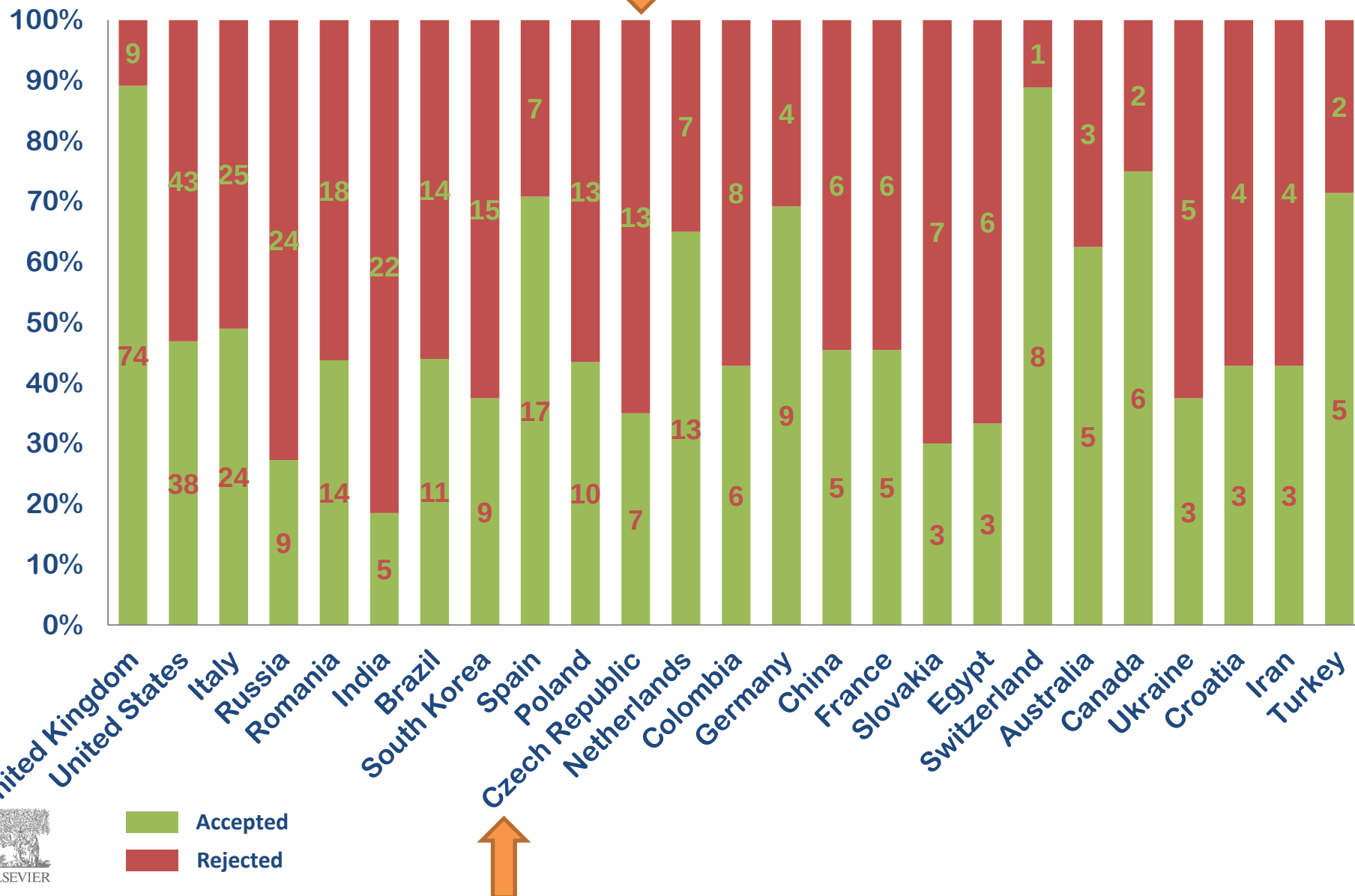


2012: Total 1,271 titles reviewed of which 47% accepted

Titles reviewed top 25 countries (2013)

Scopus

Titles reviewed top 25 countries (2013 YTD)



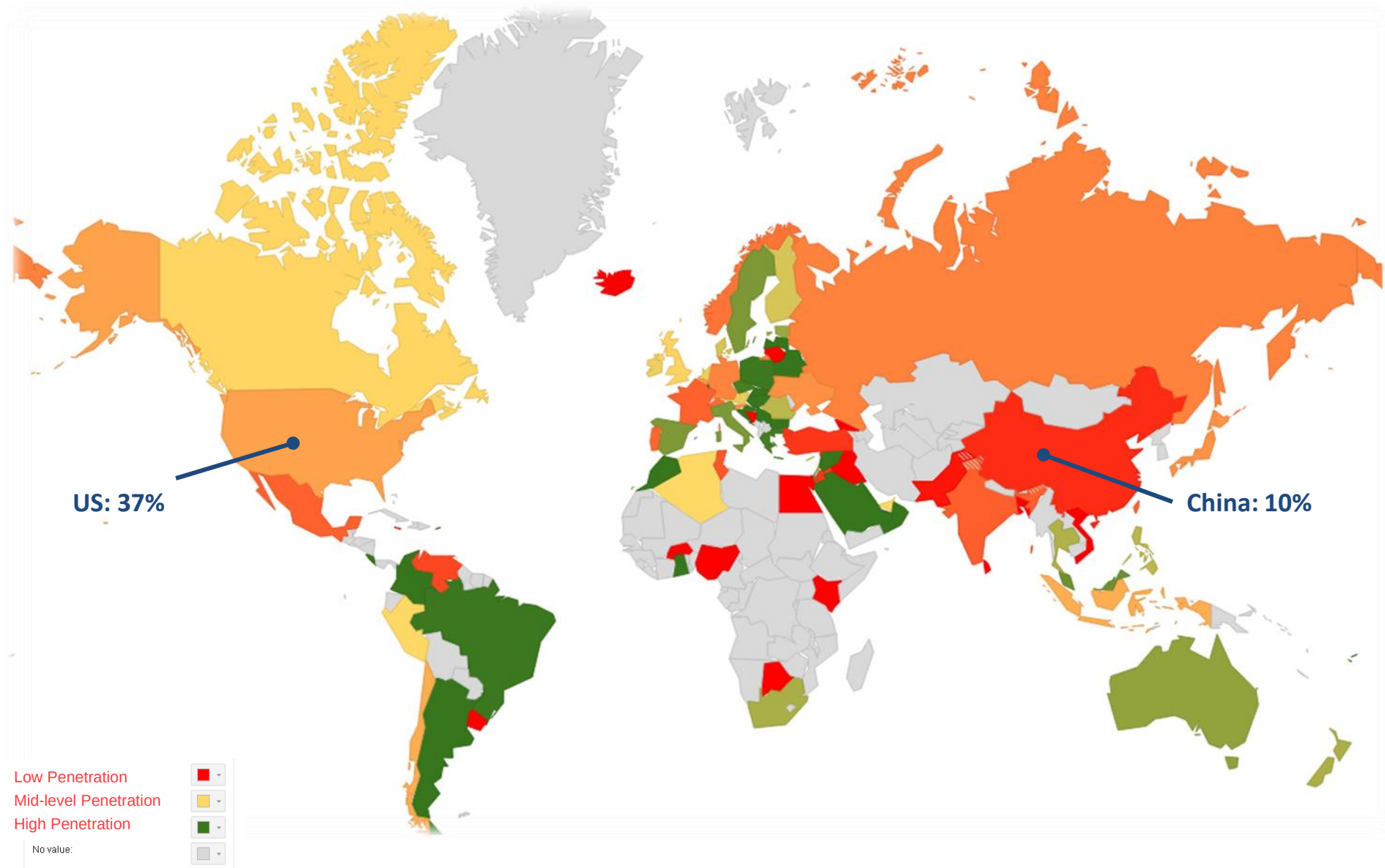
Accepted
Rejected

titlesuggestion@scopus.com

Scopus penetration per country

Scopus

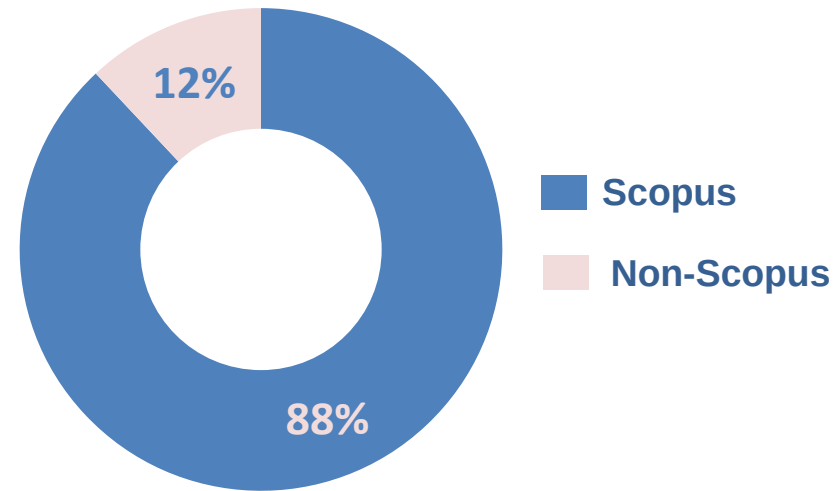
(2012 Analysis, by customer count)



Leading research institutes use Scopus

Scopus

Rank	Name of Institute	Country
1	Massachusetts Institute of Technology	US
2	Harvard University	US
3	University of Cambridge	UK
4	University College London	UK
5	Imperial College London	UK
6	University of Oxford	UK
7	Stanford University	US
8	Yale University	US
9	University of Chicago	US
10	California Institute of Technology	US
10	Princeton University	US
12	ETH Zurich	Switzerland
13	University of Pennsylvania	US
14	Columbia University	US
15	Cornell University	US
16	Johns Hopkins University	US
17	University of Edinburgh	UK
17	University of Toronto	Canada
19	Ecole Polytechnique Federale de Lausanne	Switzerland
19	King's College London	UK
21	McGill University	Canada
22	University of Michigan	US
23	Duke University	US
24	National University of Singapore	Singapore
25	University of California Berkeley	US

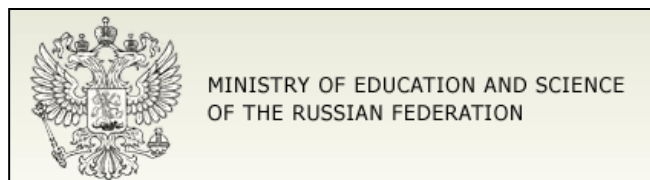


Leading organizations rely on Scopus

Scopus



SIEMENS



I A R P A
BE THE FUTURE



HIGHER EDUCATION
FUNDING COUNCIL FOR ENGLAND

hefce

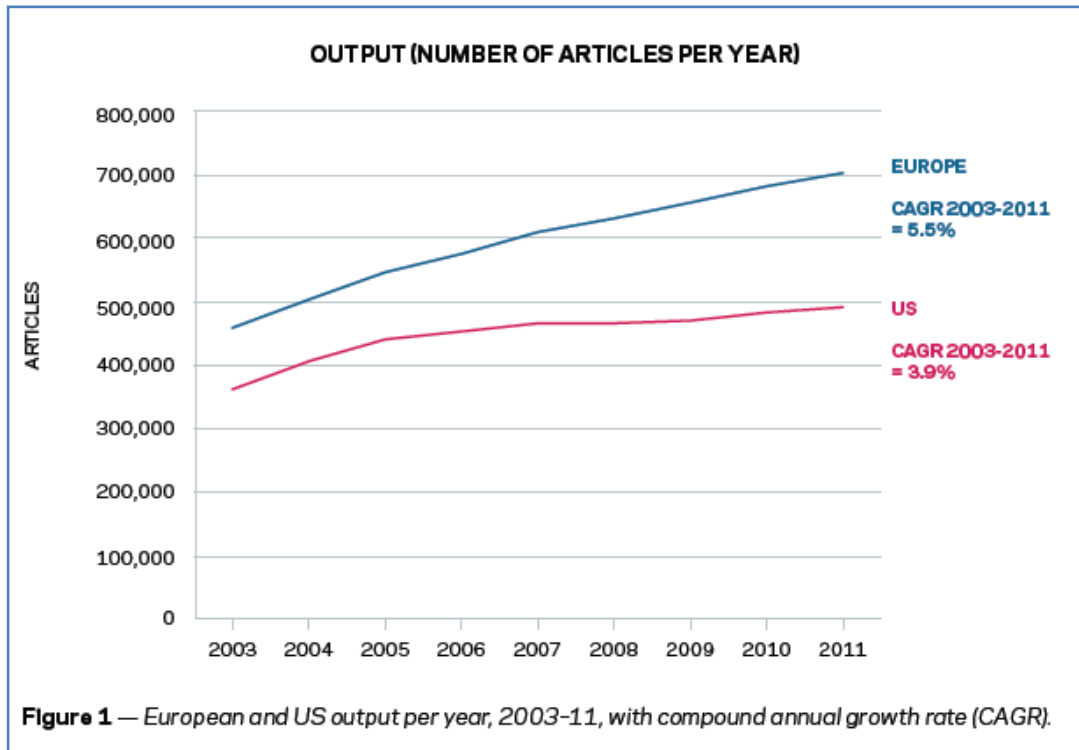
IAX-PLA



Australian Government
Australian Research Council

Elsevier cooperates with research stakeholders

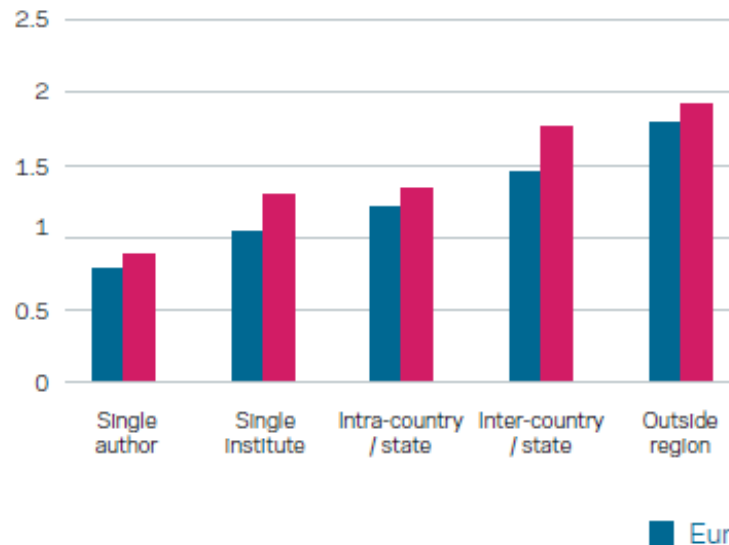
Scopus



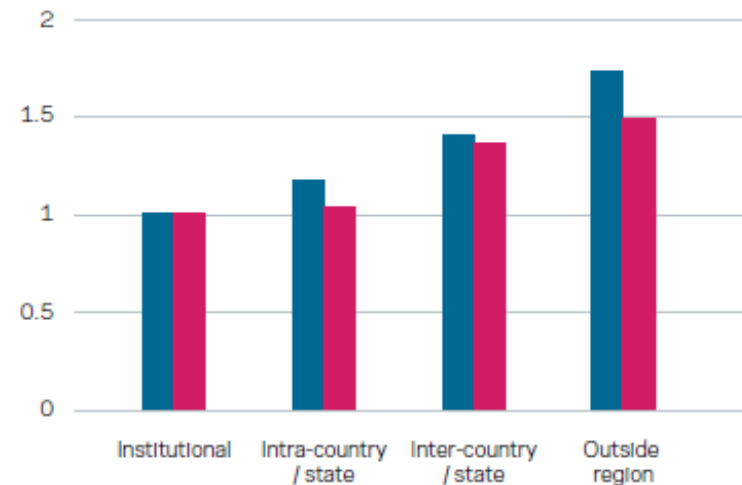
Collaboration increases citation impact

Scopus

FIELD-WEIGHTED CITATION IMPACT
PER COLLABORATION TYPE (2007-2011)



FWCI FOLD INCREASE OVER INSTITUTIONAL COLLABORATION



FWCI FOLD INCREASE OVER INSTITUTIONAL COLLABORATION

	Institutional	Intra-country / state	Inter-country / state	Outside region
EUROPE	1	1.17	1.41	1.73
US	1	1.03	1.37	1.49

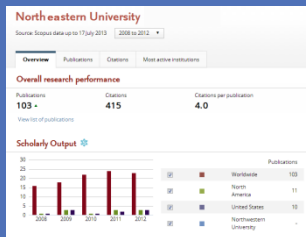
Figure 8 — European and US field-weighted citation impact by collaboration type, 2007-2011, (left) absolute values per collaboration type, (right) fold increase over institutional collaboration.

Solution to your strategic planning challenges

Scopus

Performance Overview Module

Comprehensive summaries of any selected entity for 360 degree performance evaluation



- At-a-glance, standardized reports
- Access to all competency maps

Benchmarking Module

Compare research groups using selection of 20+ metrics for in-depth analysis



- Complete flexibility to combine any selection of metrics and research groups

Collaboration Analysis Module

Identify and analyse existing and potential collaboration opportunities



- Visualized on Google maps
- Ranking of institutes and authors with indicators

What?

How?



‘Ready-to-use’ solution with pre-defined entities, and flexibility for users to model, evaluate, and benchmark any perspective of their scientific universe

Ready-to-use

-  Institutions (+ groups)
-  Countries (+ groups)
-  Research areas
 - Journal classification
 - Spotlight competencies
-  *Researchers and groups (optional service)*

Create your own

-  Institutions (+ groups)
-  Groups of countries
-  Research areas
 - Search terms
 - Combining existing entities
 - Combining competencies
-  Researchers (+ groups)
-  Publication sets (+ groups)

- Access to pre-defined 4600+ institutions, 250 countries and groups (i.e. EU27, US states, German Bundesländer, Russell group and more)
- Ability to create any desired grouping of entities or documents
- Support of multiple journal subject classifications (i.e. Scopus ASJC initially, then include FoR – Australia, OECD, and more)

Which metric to use?

1. What **level** am I assessing?
 - Article, Journal, Researcher, Institution, etc.
2. What **type** of impact am I assessing?
 - Scientific, Clinical, Societal, Educational, etc.
3. What **methods** are available based on above?
 - **Quantitative**: citation, usage, media, h-index, SNIP, SJR, etc.
 - Qualitative: Peer-review, etc.

Bibliometrics (quantitative measures used to assess research output)

Basic premise = **Citation is a form of endorsement**

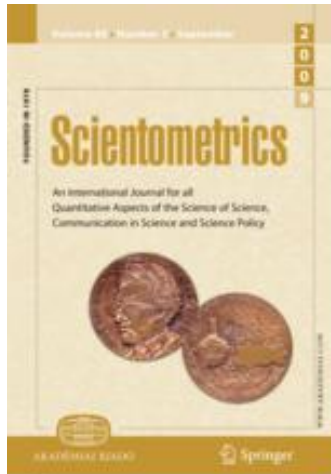
Bibliometricians agree that **no single metric can effectively capture the entire spectrum of research performance** because no single metric can address all key variables

Which journal is best?

Journal	Impact Factor 2008*
Lancet Infectious Diseases	13.165
Social Studies of Science	1.343
Dyes & Pigments	2.507
Expert Systems with Applications	2.596
Progress in Nuclear Magnetic Resonance Spectroscopy	6.162
Communications on Pure & Applied Mathematics	3.806

*Journal Citation Reports 2009

They are all the best – all the top of their subject categories



“[Publishers should] **Greatly reduce emphasis on the journal impact factor as a promotional tool** ideally by ceasing to promote the impact factor or **by presenting the metrics in the context of a variety of journal based metrics** ... that provide a richer view of journal performance”

Vanclay, J, Impact factor: outdated artefact or stepping-stone to journal certification, *Scientometrics*, Volume 92, Issue 2 (August 2012)

- From *The San Francisco Declaration on Research Assessment (DORA)*
<http://am.ascb.org/dora/>



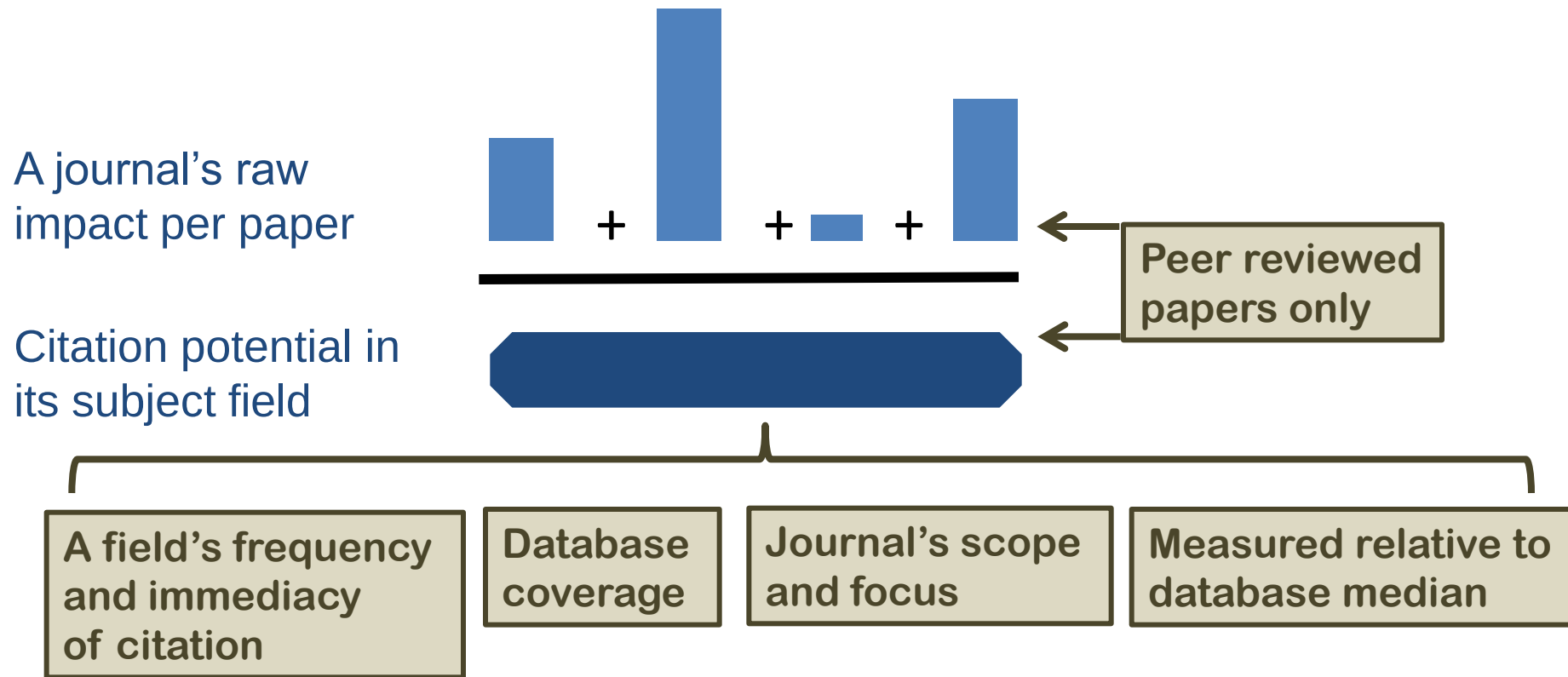
About SNIP

Source Normalized Impact per Paper (SNIP) measures contextual citation impact by weighting citations based on the total number of citations in a subject field.



SNIP: Source-normalized impact per paper

Scopus



SNIP: Molecular Biology VS Mathematics

Scopus

Journal	RIP	Cit. Pot.	SNIP (RIP/Cit. Pot.)
Inventiones Mathematicae	1.5	0.4	3.8
Molecular Cell	13.0	3.2	4.0

Prestige metric: Prestige transferred when a journal cites

- Citations are weighted depending on where they come from
- A journal's prestige is shared equally between its citations



High impact, lots of citations
One citation = low value



Low impact, few on citations
One citation = high value

SJR normalizes for differences in citation behaviour between subject fields

- Newly added
- Same treatment as IF
 - Normalized by ranking in the field
- ASJC (All Science Journal Classification)
 - 27 subject areas
 - 309 subject fields
- *In preparation*: list of journals with their ranking per SJR and subject field – to be published on <http://cz.elsevier.com>
- Where to find SJR?
 - www.journalmetrics.com
 - Scopus Title List
 - Scopus page in Scopus

- SJR is calculated and updated once per year (lastly Sept 2013)
- SJR is static and calculated by third parties (not Scopus) and is based on the data available in Scopus at the moment of calculation.
- The values that become available in that year concern the metrics of the previous full-year and have a citation window of three years. For example the metrics that will become available now (2013) are the SNIP and SJR values based on the citations obtained during the full year 2012 to articles published in the years 2009 – 2011
- Depending if sufficient data is available in Scopus at the moment of calculation the journal metric values will be calculated. On the other hand if a journal started in Scopus in 2011 but there is a sufficient amount of articles published and citations to that journal it may already have a journal metric available.
- The metrics of previous years will also be re-calculated with each annual update.
- In some cases, it is possible to add content to Scopus retrospectively – please communicate with the Scopus Title team.

The Challenge: Scholarly Name Ambiguity

Scopus

Many researchers that too closely resemble one another.

Researchers publish under name variations.



Dr. Lee

Dr. Lee

Dr. Lee



Dr. Lee

Dr. J. Lee

Dr. James Lee

The Solution: The ORCID Registry

Scopus

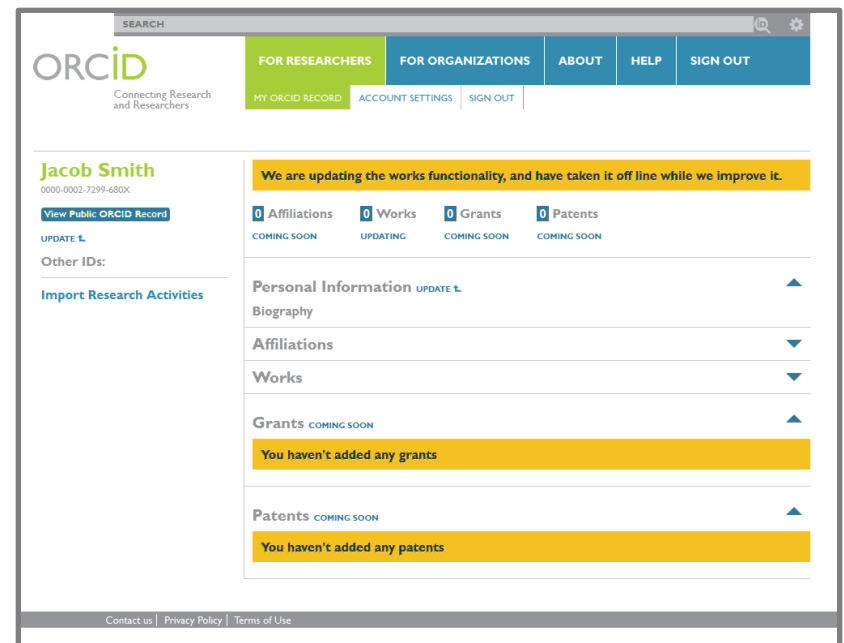


Dr. Lee
Dr. J. Lee
Dr. James Lee

Dr. James Lee
46533489

Open Research and Contributor ID (ORCID)

Aims to solve the name ambiguity problem in research and scholarly communications by creating a central registry of unique identifiers for individual researchers



The (Future) Benefits of ORCID

Scopus

By issuing unique identifiers to all researchers, ORCID aims to facilitate discovery and evaluation for researchers, institutions, scholarly societies and publishers.



46533489

Joins faculty or student body

Joins scholarly society

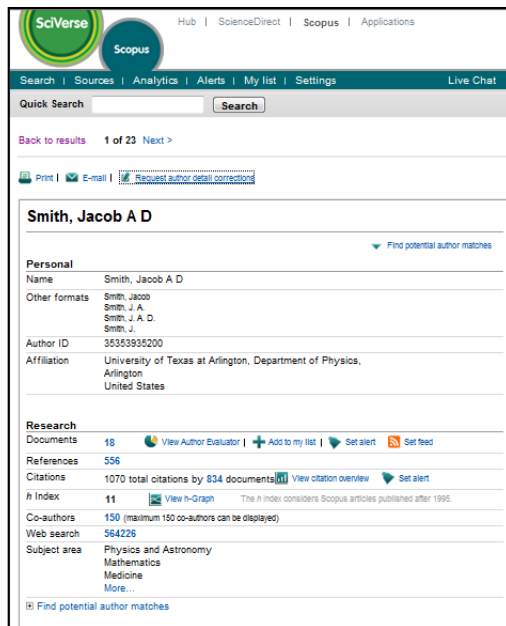
Applies for grant

Submits manuscript

Scopus2ORCID: easy ORCID Set Up

Scopus

orcid.scopusfeedback.com



SciVerse Scopus Hub | ScienceDirect | Scopus | Applications

Search | Sources | Analytics | Alerts | My list | Settings Live Chat

Quick Search Search

Back to results 1 of 23 Next >

Print | E-mail | Request author detail correction

Smith, Jacob A D Find potential author matches

Personal

Name Smith, Jacob A D

Other formats Smith, Jacob Smith, J. A. D. Smith, J.

Author ID 3535393200

Affiliation University of Texas at Arlington, Department of Physics, Arlington, United States

Research

Documents 18 View Author Evaluator | Add to my list | Set alert | Set feed

References 556

Citations 1070 total citations by 834 documents View citation overview | Set alert

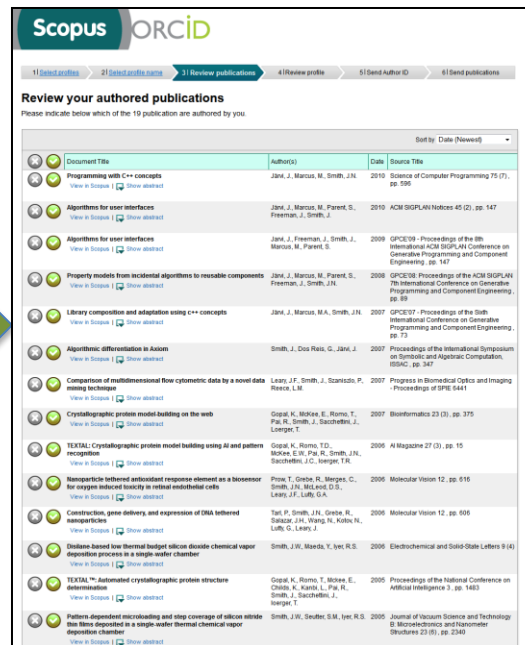
h Index 11 View h-Graph The h index considers Scopus articles published after 1995.

Co-authors 150 (maximum 150 co-authors can be displayed)

Web search 564226

Subject area Physics and Astronomy Mathematics Medicine More...

Find potential author matches



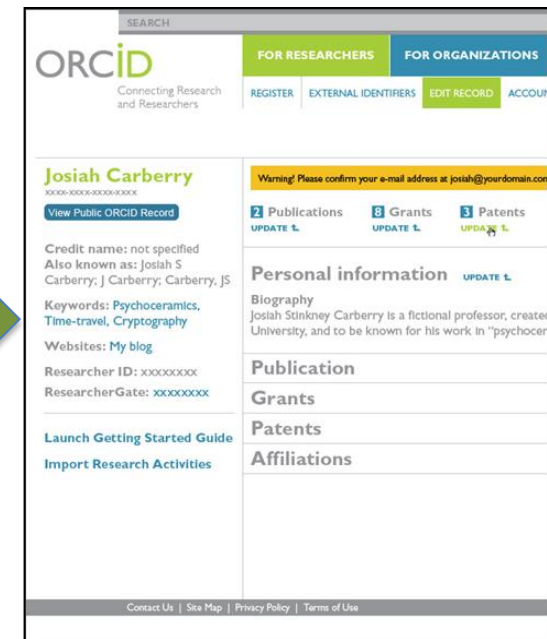
Scopus ORCID

11 Send profile 21 Send profile name 31 Review publications 4 Review profile 51 Send author ID 61 Send publications

Review your authored publications

Please indicate below which of the 19 publication are authored by you.

Document Title	Author(s)	Date	Source Title
Programming with C++ concepts	JAH, J., Marcus, M., Smith, J.N.	2010	Science of Computer Programming 75 (7), pp. 595
Algorithms for user interfaces	JAH, J., Marcus, M., Parent, S., Freeman, J., Smith, J.	2010	ACM SIGPLAN Notices 45 (2), pp. 147
Algorithms for user interfaces	JAH, J., Freeman, J., Smith, J., Marcus, M., Parent, S.	2008	GPCE'08 - Proceedings of the 8th International ACM SIGPLAN Conference on Generative Programming and Component Engineering, pp. 89
Property models from incidental algorithms to reusable components	JAH, J., Marcus, M., Parent, S., Freeman, J., Smith, J.N.	2008	GPCE'08 - Proceedings of the 8th International ACM SIGPLAN Conference on Generative Programming and Component Engineering, pp. 89
Library composition and adaptation using c++ concepts	JAH, J., Marcus, M.A., Smith, J.N.	2007	GPCE'07 - Proceedings of the 7th International Conference on Generative Programming and Component Engineering, pp. 73
Algorithmic differentiation in Axion	Smith, J., Das Ravi, G., JAH, J.	2007	Proceedings of the International Symposium on Symbolic and Algebraic Computation, ISSAC, pp. 347
Comparison of multidimensional flow cytometric data by a novel data mining technique	Leary, J.F., Smith, J., Scanlon, P.	2007	Progress in Biomedical Optics and Imaging - Proceedings of SPIE 6441
Cryptographic protein model building on the web	Gopal, K., McKee, E., Ronto, T., Pat, R., Smith, J., Sacchettini, J., Langer, T.	2007	Bioinformatics 23 (2), pp. 375
TEXTML: Crystallographic protein model building using AI and pattern recognition	Gopal, K., Ronto, T.D., McKee, E.R., Pat, R., Smith, J.N., Sacchettini, J.C., Langer, T.R.	2006	AI Magazine 27 (3), pp. 15
Nanoparticle tethered antioxidant response element as a biosensor for oxygen induced toxicity in retinal endothelial cells	Prinz, T., Grebe, R., Marges, C., Smith, J.N., Hillard, D.S., Leary, J.F., Luby, G.A.	2006	Molecular Vision 12, pp. 616
Construction, gene delivery, and expression of DNA tethered nanoparticles	Tat, P., Smith, J.N., Grebe, R., Sakurai, J.H., Yang, N., Kotko, N., Luby, G., Leary, J.	2006	Molecular Vision 12, pp. 606
Online based low thermal budget silicon dioxide chemical vapor deposition process in a single-wafer chamber	Smith, J.N., Maeda, Y., Jee, R.S.	2006	Electrochemical and Solid-State Letters 9 (4)
TEXTML: Automated crystallographic protein structure determination	Gopal, K., Ronto, T., McKee, E., Chubb, K., Kaur, S., Pat, R., Smith, J., Sacchettini, J., Langer, T.	2006	Proceedings of the National Conference on Artificial Intelligence 3, pp. 1463
Pattern dependent microloading and step coverage of silicon nitride films deposited in a single-wafer thermal chemical vapor deposition chamber	Smith, J.N., Sessler, S.M., Jee, R.S.	2006	Journal of Vacuum Science and Technology B: Microelectronics and Nanometer Structures 23 (5), pp. 2340



ORCID Connecting Research and Researchers

FOR RESEARCHERS FOR ORGANIZATIONS

REGISTER EXTERNAL IDENTIFIERS EDIT RECORD ACCOUNT

Josiah Carberry
XXXXXX-XXXXXX-XXXXXX-XXXXXX

View Public ORCID Record

Credit name: not specified
Also known as: Josiah S Carberry; J Carberry; Carberry, JS

Keywords: Psychoceramics, Time-travel, Cryptography

Websites: My blog

Researcher ID: XXXXXXXX
ResearcherGate: XXXXXXXX

Launch Getting Started Guide
Import Research Activities

Warning! Please confirm your e-mail address at josiah@yourdomain.com

2 Publications UPDATE L 3 Grants UPDATE L 3 Patents UPDATE L

Personal information UPDATE L

Biography
Josiah Stinkney Carberry is a fictional professor, created University, and to be known for his work in "psychoceramics".

Publication

Grants

Patents

Affiliations

Contact Us | Site Map | Privacy Policy | Terms of Use

Enter via Scopus2ORCID Wizard or from ORCID!

Add profile to ORCID

Holland, Karen K.

[Find potential author matches](#)

Personal

Name	Holland, Karen K.
Other formats	Holland, C. K. Holland, Karen Holland, K.
Author ID	7103389916
Affiliation	University of Salford, School of Nursing and Midwifery, Manchester United Kingdom

Research

Documents	44	View Author Evaluator Add to my list Set alert Set feed
References	423	
Citations	193 total citations by 172 documents	View citation overview Set alert
h Index	7	View h-Graph <small>The h index considers Scopus articles published after 1995.</small>
Co-authors	16	
Web search	168019	
Subject area	Social Sciences Nursing Medicine	

[Find potential author matches](#)

History

Publication range	1993-Present	
Source history	Journal of Interprofessional Care	View documents
	Journal of Advanced Nursing	View documents
	Nursing standard (Royal College of Nursing (Great Britain) : 1987)	View documents
	More...	

[Show Related Affiliations](#) The data displayed above is compiled exclusively from articles published in the Scopus database. To request corrections to any inaccuracies or provide any further feedback, please [contact us](#) (registration required).The data displayed above is subject to the privacy conditions contained in the [privacy policy](#).

Documents

This author has published 44 documents in Scopus:
(Showing the 2 most recent)

Holland, K.
[Reflections on the NETNEP 2012 Conference - Changing the Landscape for Nursing and Healthcare Education: Evidence-based innovation, policy and practice](#)
(2013) *Nurse Education in Practice*

Holland, K.
[Editorial Commentary for the Special eSupplement Series of papers on the evidence-based development of a Medicine Management Learning Tool \(Authentic World®\)](#)
(2013) *Nurse Education in Practice*

[View details of all 44 documents by this author](#)

Inform me when this author publishes new documents in Scopus:

[Set alert](#) | [Set feed](#)

Cited by since 1996

This author has been cited by 172 documents in Scopus:
(Showing the 2 most recent)

Kahtanen, A.-M., Lakanmaa, R.-L., Salmiinen, L.
[The transition from nursing student to registered nurse: The mentor's possibilities to act as a supporter](#)
(2013) *Nurse Education in Practice*

Raymond, J.E., Homer, C.S.E., Smith, R., Gray, J.E.
[Learning through authentic assessment: An evaluation of a new development in the undergraduate midwifery curriculum](#)
(2013) *Nurse Education in Practice*

[View details of all 172 citations](#)

Inform me when this author is cited in Scopus:

[Set alert](#)

ORCID Information

Karen Holland <http://orcid.org/0000-0001-9646-0367>

ORCID is an open, non-profit, community-based effort to create and maintain a registry of unique researcher identifiers and a transparent method of linking research activities and outputs to these identifiers.

Claim your ORCID and associate your documents with our [Scopus2ORCID import tool](#).

Link out to ORCID profile

And so we joined up with a small yet brilliant company to make this possible

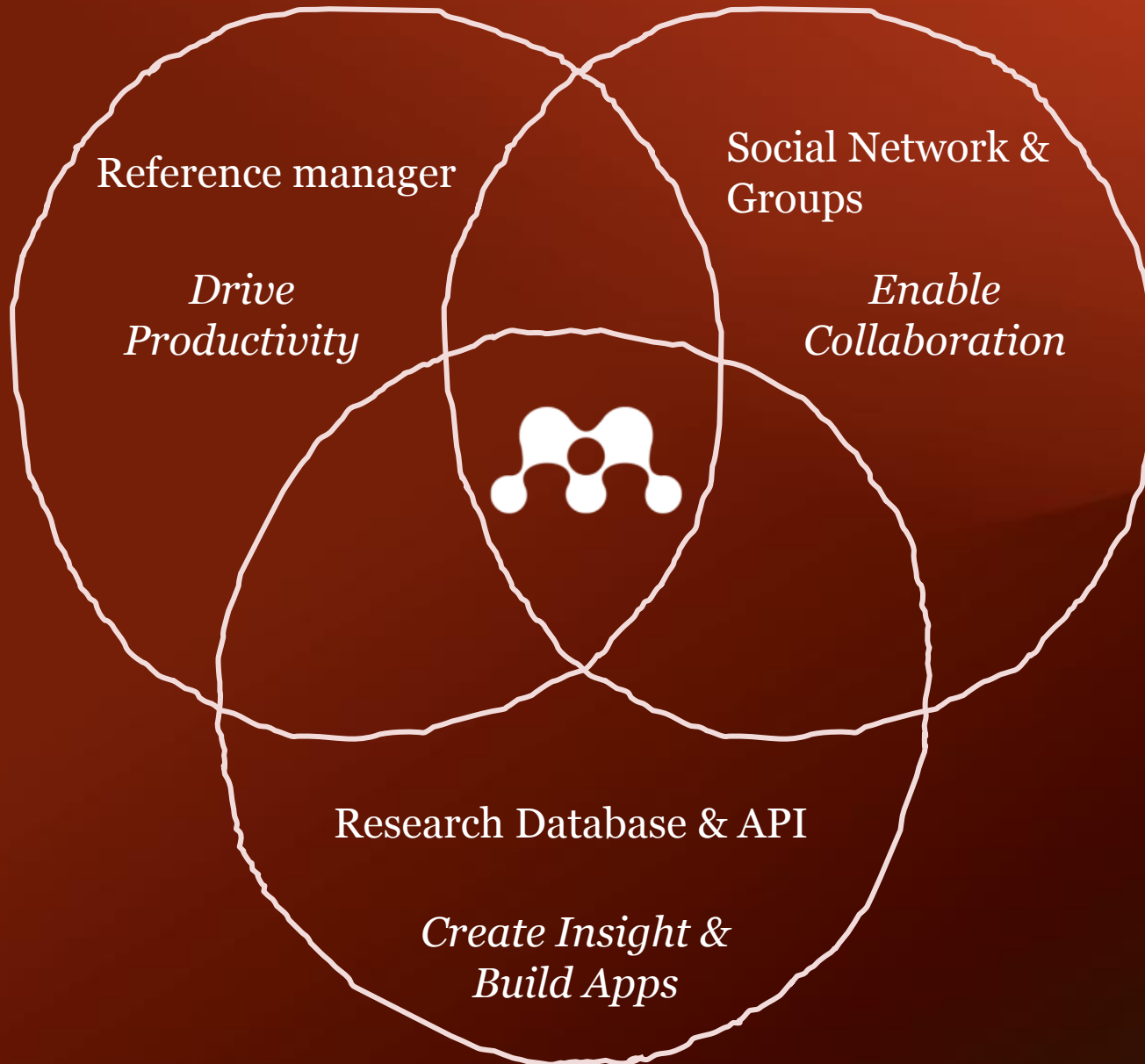


theguardian

Reed Elsevier buys academic social
network Mendeley

What is Mendeley?

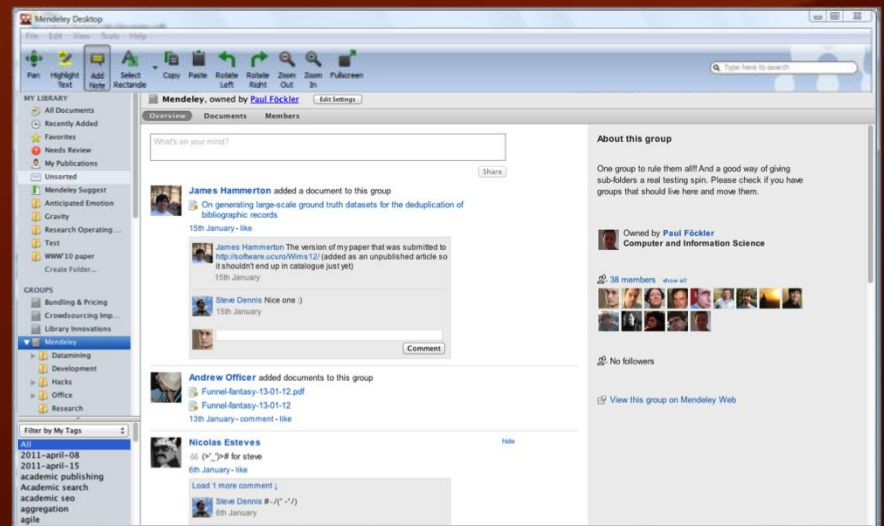
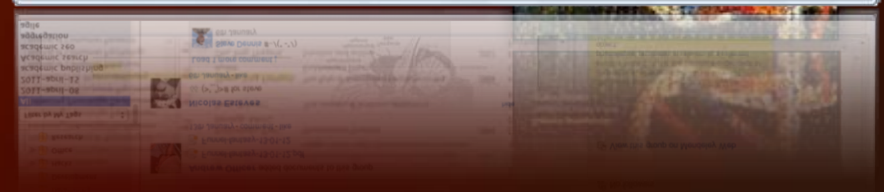
Mendeley key components







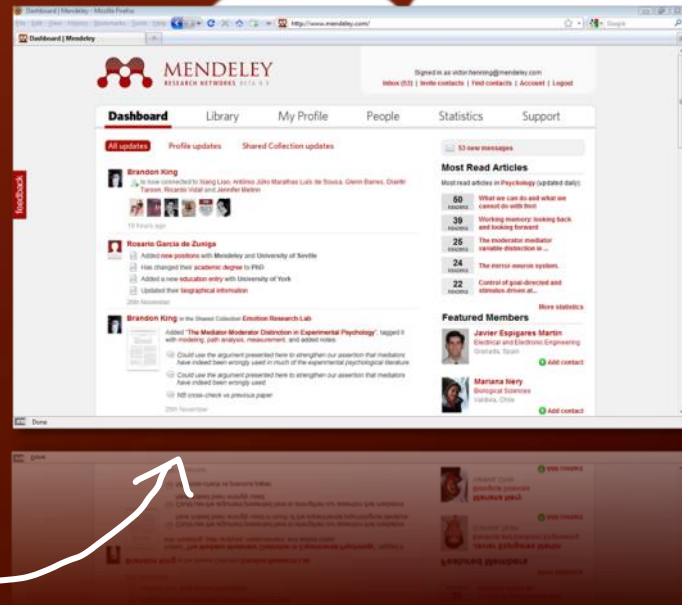
..le when clean, hits costs a lot, and
and for better or for evil, PDFs, ..



..and aggregates everything
in the cloud



..share and discuss their
research in groups, ..



Free to download

<http://www.mendeley.com/>



Thank you!

Look out for more developments from **Scopus@**

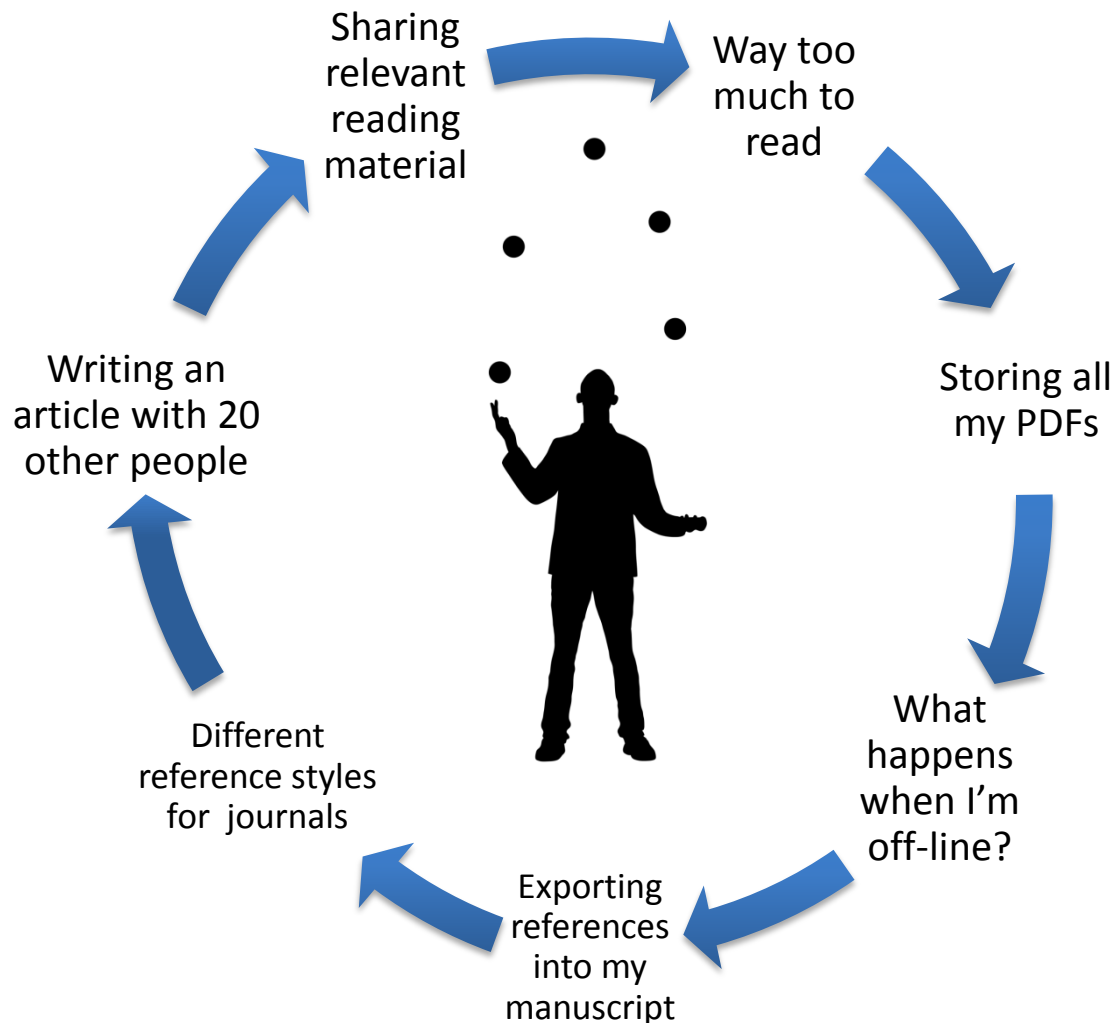
Scopus blog <http://blog.scopus.com/>



<https://twitter.com/Scopus>

Our next steps will be focused on solving these problems in the research workflow

Scopus



Thank you!

Look out for more developments from **Scopus@**

Scopus blog <http://blog.scopus.com/>



<https://twitter.com/Scopus>

