TITLE

SUPPORTING THE JOURNAL SELECTION PROCESS & RESEARCH PUBLICATION PRACTICES FOR RESEARCH PERFORMANCE EVALUATION IN SERBIA

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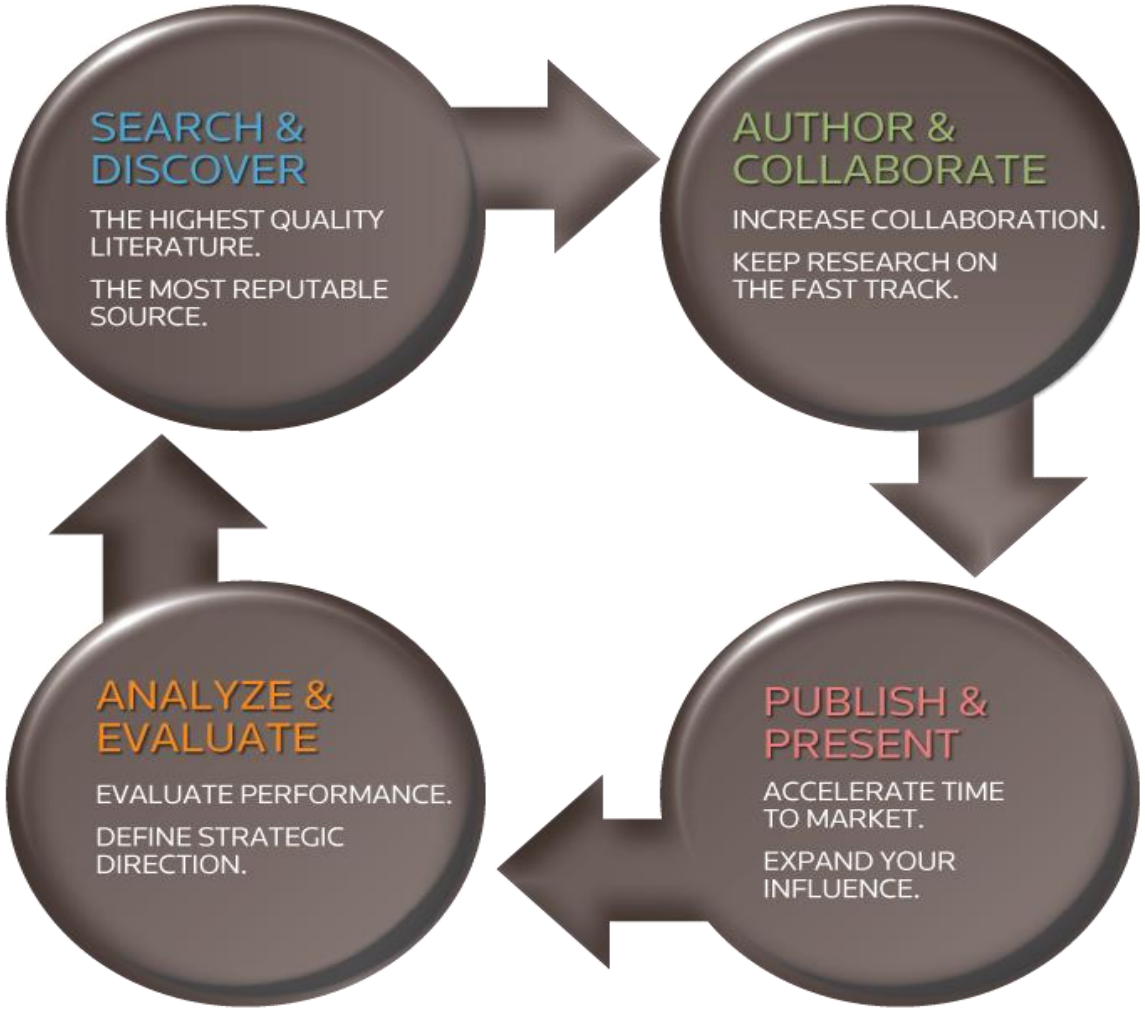
Research Analytics Consultant

Clarivate Analytics | Formerly the IP & Science business of Thomson Reuters

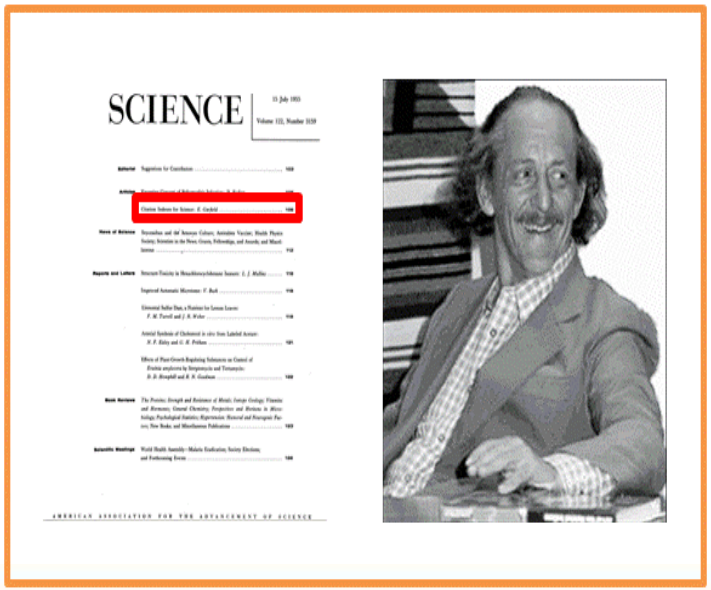
TODAY'S AGENDA

- The Importance of Selectivity
- WoS Journal Selection Criteria
- What's next? Data and Indexation Process
- Journal Ranking Indicators
- How to use the Journal Impact Factor wisely
- Beyond the Journal Impact Factor: Other metrics?
- Tools to monitor journal research performance and inform journal collection development
- Target the most relevant journal for your research
- Q&A

SUPPORTING THE SCIENTIFIC & SCHOLARLY ECOSYSTEM



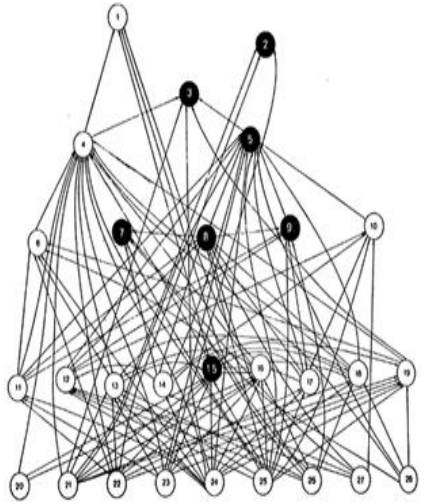
THE WEB OF SCIENCE CORE COLLECTION DEVELOPMENT



Citation Indexes for Science

A New Dimension in Documentation through Association of Ideas

Science 122 (3159), p.108-11, July 1955



1961 — *Science Citation Index*

1992 — *ISI* Acquired

1996 — *Web of Science* Launched

1999 — *EndNote* Acquired
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2002 — *Web Of Knowledge* Launched

2005 — *Century of Science* Launched

2008 — New *Wok Interface* Introduced

2009 — *InCites* Launched. *Century of Social Sciences* Launched

2012 — *WoS Next generation* launched

2013 — *Incites Next Generation* launched

2014 — *Regional Citation indexes* launched

2015 — *Emerging Sources Citation Index* launched

Clarivate Analytics

EMERGING SOURCES CITATION INDEX (ESCI)

An **additional index** in the Web of Science Core Collection to widen the window for research discovery

More than **5000 journals** by the end of 2016

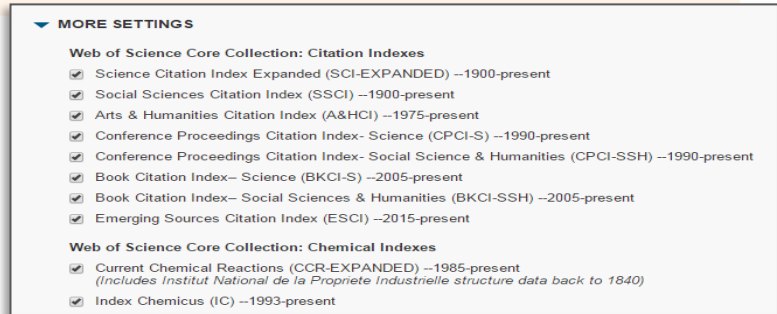
Keep the **core criteria for selection**

- Peer Review
- Publishing Practices
- High Interest to a scholarly community
- Ability to meet our technical requirements

Same **strict editorial policies** for capture: Indexing of ALL publications, All authors, All affiliations, and Funding sources.

No Journal Impact Factor

22 **Serbian journals** have been selected/reviewed



http://ip-science.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=EX

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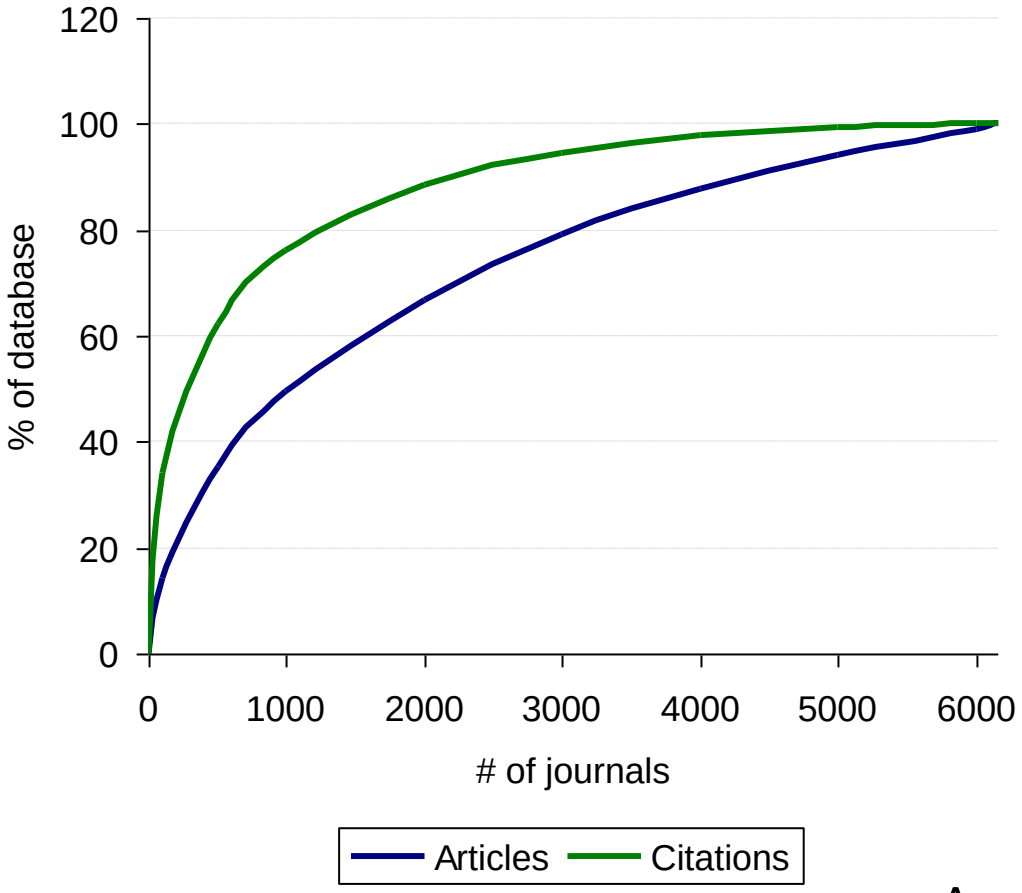
SELECTION: WHERE IS THE RELEVANT CONTENT?



Garfield's Law of Concentration

40% of the journals represent:

- 80% of the publications
- 92% of cited papers

4% of the journals represent:

- 30% of the publications
- 51% of cited papers

Approx. 3,000 journals evaluated annually in Web of Science

– 10-12% accepted

JOURNALS MUST BE SELECTED

200+ papers will be read by a researcher in a year, on average

0.4% of journals (50,000+) on average a scientist is capable of reading in a year.

Tenopir C. What Scientists Really Need. In: American Association for the Advancement of Science Meeting (AAAS). Washington D.C.; 2005.

SELECTIVITY IS THE KEY

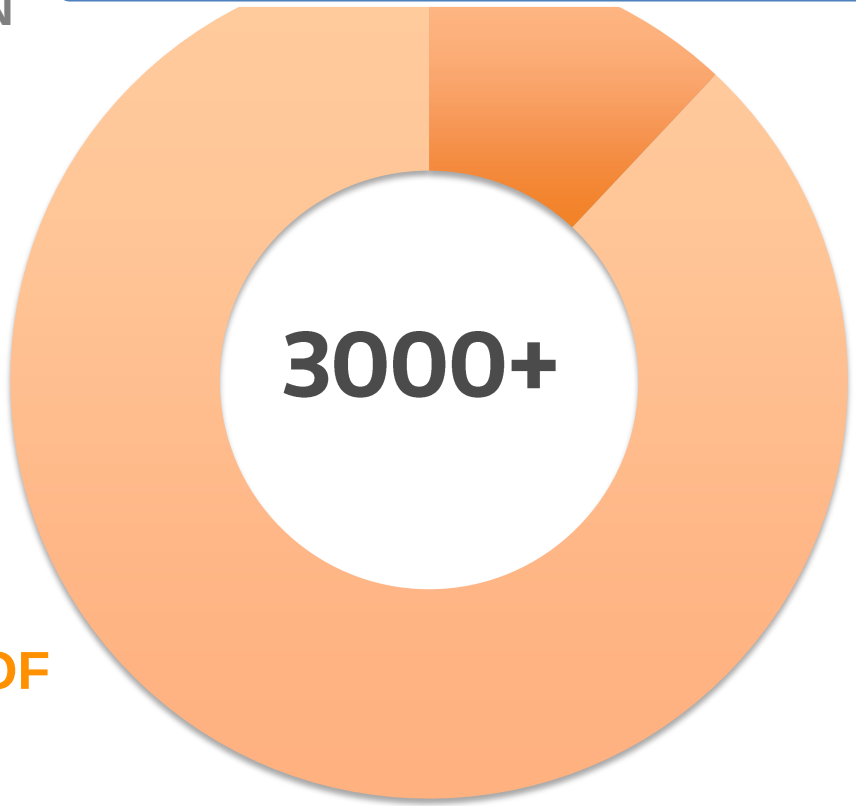
DELIVERING THE "200 ARTICLES"

THE SEA OF SCHOLARLY INFORMATION

THE CORE OF SCIENCE

10 - 12% Accepted for flagship indexes

62% Accepted for ESCI



JOURNAL SELECTION PROCESS – MAIN OBJECTIVES

To evaluate and select the best scholarly content available today for coverage in Web of Science.

As a result, the Web of Science is known as the worldwide source for top tier scholarly research published in the best international and regional journals.

Provide the worldwide publishing community with objective standards useful in building world-class publications according to the highest ethical standards.

Thomson Reuters has built lasting partnerships with the global scholarly publishing community in order to improve the quality of scholarly communication.

THE IMPORTANCE OF NEUTRALITY

Uniformity of judgement
Continuous m**onitoring of current content**

Around 150 years of experience in the role
Advanced degrees
Full time job

No **conflict of interest**

Editorial acceptance rate: 10-12%

JOURNAL SELECTION CRITERIA FOR WEB OF SCIENCE

Journal Publishing Standards

- Peer review
- Ethical publishing practices
- Meets technical requirements (XML / PDF)
- English-language bibliographic information
- Timeliness of publication
- International editorial conventions

Editorial Content

- Has a scholarly audience searched for or requested this content?
- How does this journal compare with covered journals of similar scope?
- Is this subject already well covered?
- Will this journal enrich WoS with novel content?

International Diversity: Authors, EAB

- Does this journal target an international audience or specifically a regional audience?
- Is international representation among authors and board members at an appropriate level for such a journal?

Citation Analysis

Total Citations:

- Integration of the journal into the literature over time

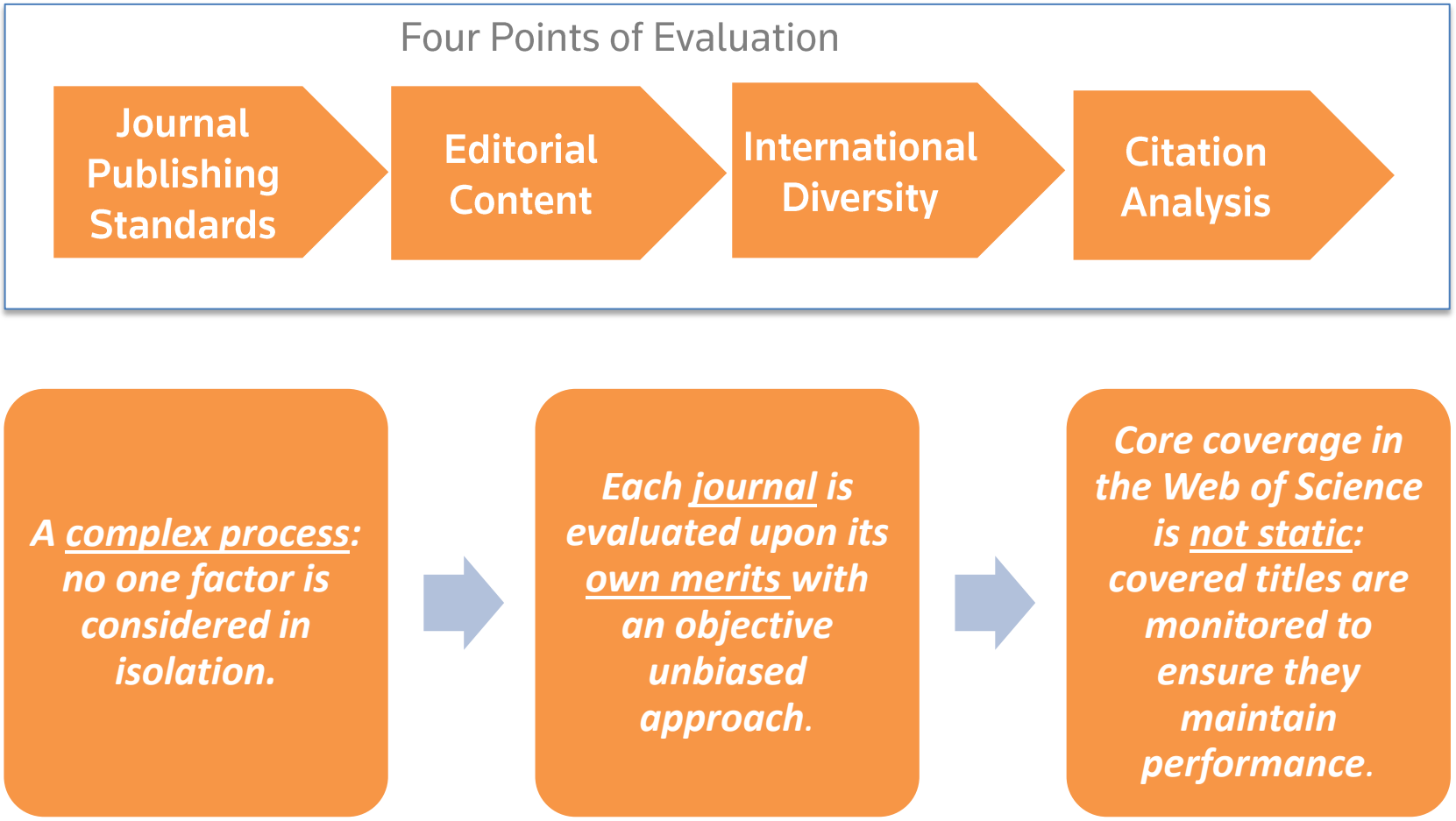
Impact Factor:

- Recent citation activity

Author, EAB citations in the literature.

- *Citation metrics have meaning only in the editorial context appropriate for the journal.*

SELECTIVITY IS THE KEY



JOURNAL SELECTION FOR WEB OF SCIENCE:
TWO PHASES

PHASE 1

Accelerated evaluation for ESCI - content must exhibit:

- Peer Review
- Ethical Publishing Practices
- High Interest to a scholarly community (Scholars, researchers, funding bodies, research administrators)
- The ability to meet our technical requirements

PHASE 2

Full assessment – meet ALL criteria SCIE, SSCI, A&HCI (Same as today):

Highest Journal Publishing Standards

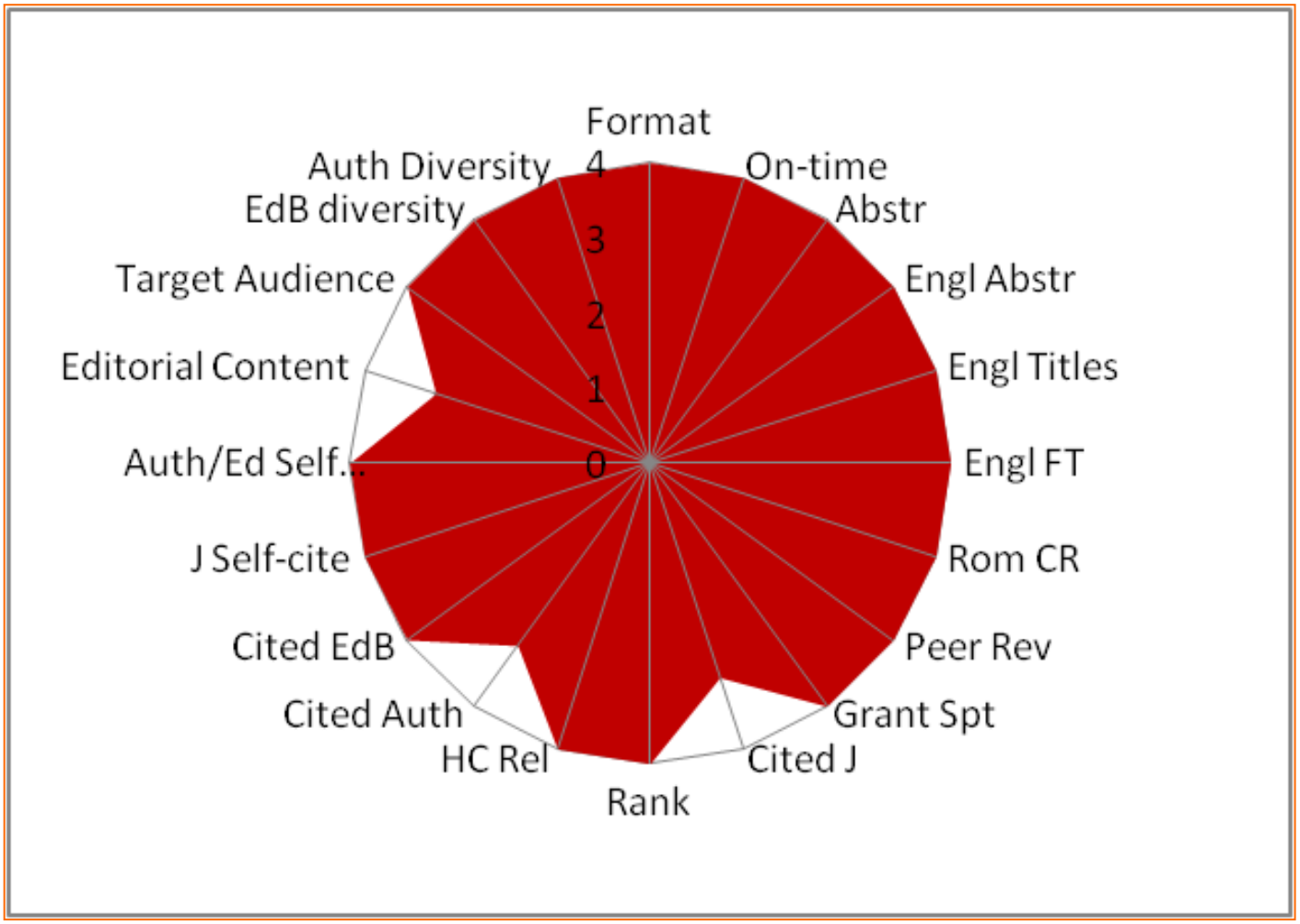
- Timeliness
- Globally Accepted Editorial conventions
- English Bibliographic Information
- **Peer Review**
- Strong Editorial board
- **Ethical Publishing Practices**

- Regional Diversity and Global Collaboration
  - Appropriate Diversity of Editorial Board
  - Appropriate Diversity of Authorship
- Significant Global Impact relative to its field (citation or novel contribution)
- Consistently high interest to the global scholarly community (Scholars, researchers, funding bodies, research administrators)
- **The ability to meet our technical requirements**

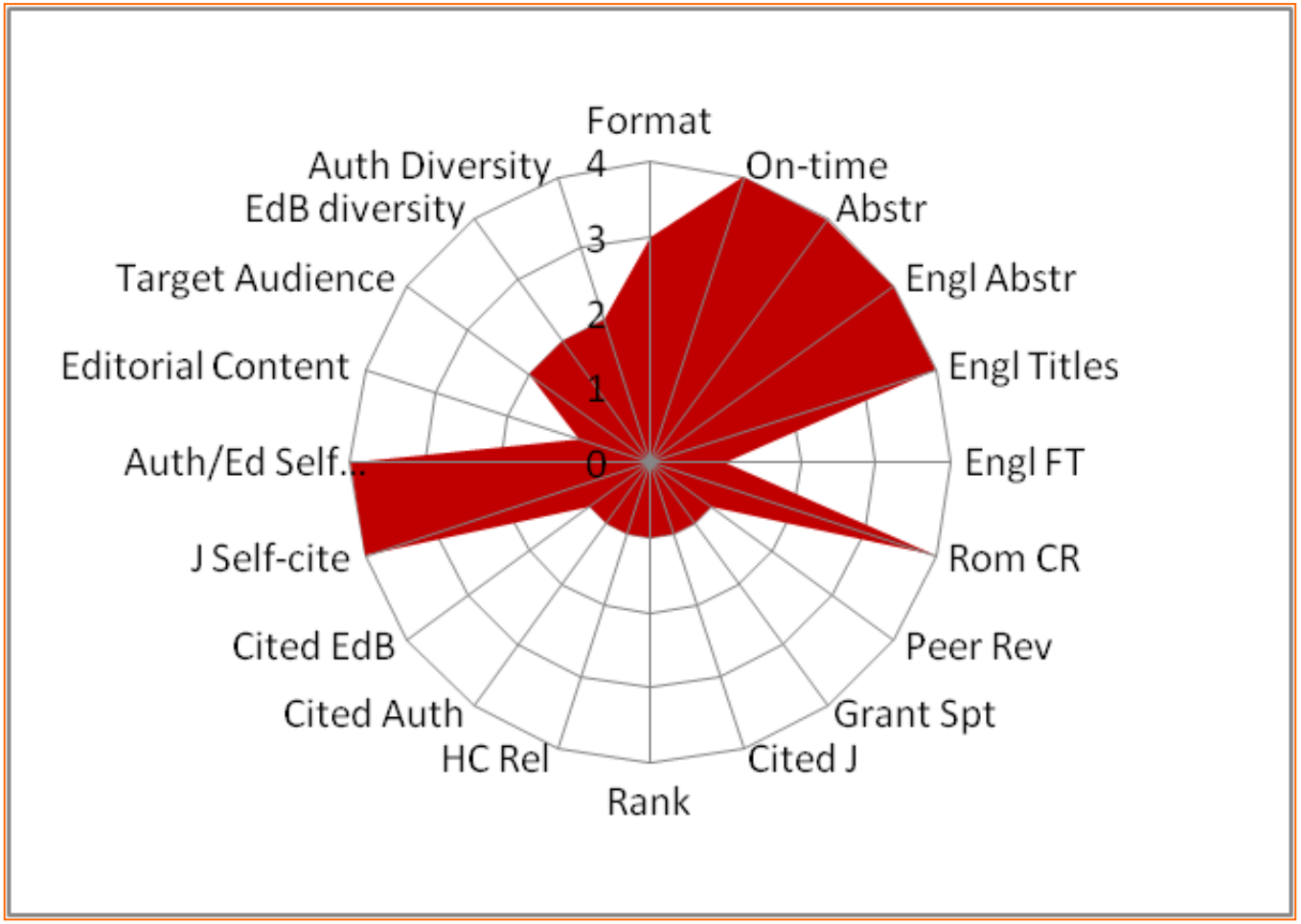
De-selection

http://ip-science.thomsonreuters.com/info/journalsubmission-front/

WHY A JOURNAL IS ACCEPTED?



WHY A JOURNAL IS REJECTED OR DROPPED?



INDEXING
CONSISTENCY IS THE KEY TO VALIDITY

- Consistent indexing for complete analysis
  - Cover-to-cover indexing
  - All author names
  - All author addresses (afiliations)
  - Open Access
  - Funding Agencies & Grant Numbers (Funding text)

COVER TO COVER INDEXING IS ESSENTIAL FOR PRODUCING RELIABLE JOURNAL RANKING INDICATORS

Search

Results: 63,400,377
(from Web of Science Core Collection)

You searched for: YEAR PUBLISHED: (1900-2016)

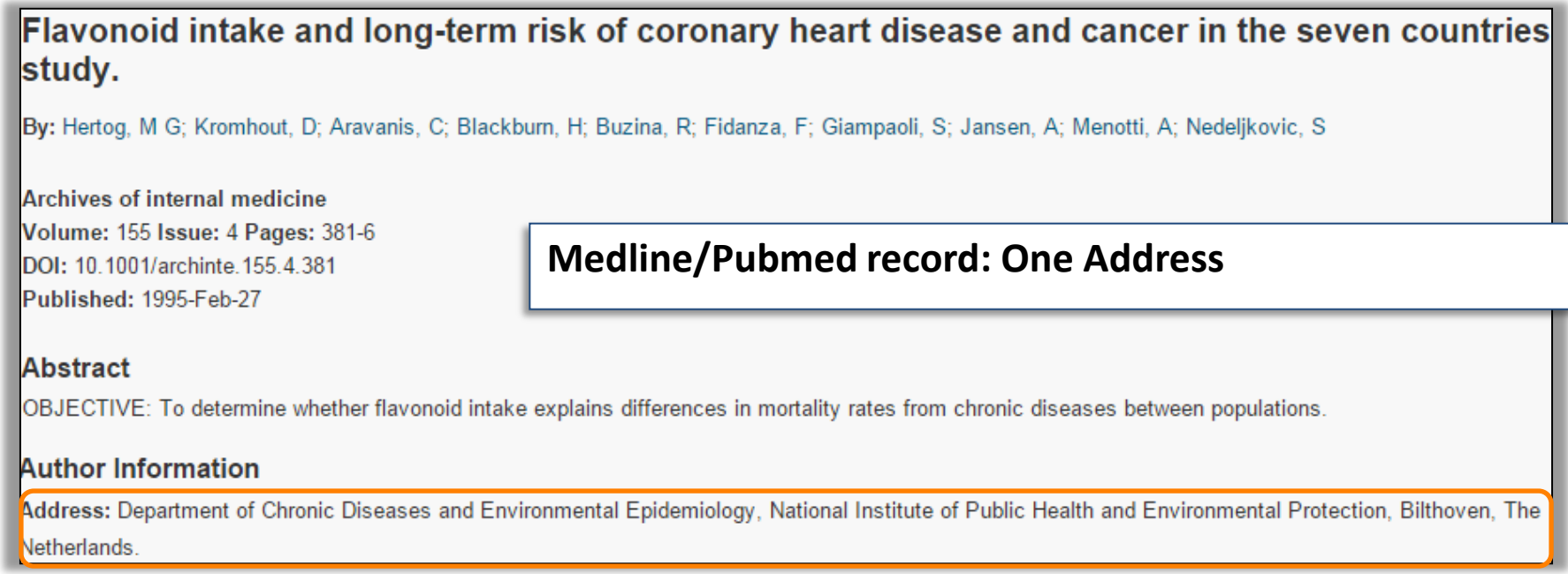
ARTICLE (37,806,124)	POETRY (261,502)	FILM REVIEW (61,602)	EXCERPT (7,396)
PROCEEDINGS PAPER (6,979,734)	CORRECTION (211,882)	FICTION CREATIVE PROSE (47,036)	TV REVIEW RADIO REVIEW VIDEO (4,785)
MEETING ABSTRACT (6,873,936)	CORRECTION ADDITION (152,018)	THEATER REVIEW (32,734)	SCRIPT (2,748)
BOOK REVIEW (4,014,745)	ART EXHIBIT REVIEW (110,798)	DANCE PERFORMANCE REVIEW (23,056)	HARDWARE REVIEW (2,560)
EDITORIAL MATERIAL (2,507,163)	BIOGRAPHICAL ITEM (108,670)	MUSIC SCORE REVIEW (18,248)	DATABASE REVIEW (1,421)
LETTER (2,209,264)	ITEM ABOUT AN INDIVIDUAL (91,774)	REPRINT (16,682)	CHRONOLOGY (1,210)
NOTE (1,471,649)	DISCUSSION (80,422)	SOFTWARE REVIEW (15,516)	MUSIC SCORE (1,147)
REVIEW (1,432,376)	BOOK (75,766)	ABSTRACT OF PUBLISHED ITEM (13,434)	MAIN CITE (91)
BOOK CHAPTER (1,002,673)	RECORD REVIEW (70,843)	BIBLIOGRAPHY (12,266)	MEETING SUMMARY (17)
NEWS ITEM (489,944)	MUSIC PERFORMANCE REVIEW (63,643)	TV REVIEW RADIO REVIEW (8,047)	PRESS DIGEST (1)

40 document types curated and properly assigned to the correct type

DIFFERENT LEVELS OF METADATA QUALITY
ALL AUTHOR NAMES, ALL ADDRESSES

NO AGREGATION OF THIRD PARTY CONTENT, ALL MATERIALS ARE INDEXED DIRECTLY FROM THE SOURCE (Publishers)

This also strengthens the consistency of our metadata capture, Web of Science does not inherit the weaknesses (*e.g. missing affiliations in Medline*) or third party databases



Flavonoid intake and long-term risk of coronary heart disease and cancer in the seven countries study.

By: Hertog, M G; Kromhout, D; Aravanis, C; Blackburn, H; Buzina, R; Fidanza, F; Giampaoli, S; Jansen, A; Menotti, A; Nedeljkovic, S

Archives of internal medicine
Volume: 155 Issue: 4 Pages: 381-6
DOI: 10.1001/archinte.155.4.381
Published: 1995-Feb-27

Medline/Pubmed record: One Address

Abstract

OBJECTIVE: To determine whether flavonoid intake explains differences in mortality rates from chronic diseases between populations.

Author Information

Address: Department of Chronic Diseases and Environmental Epidemiology, National Institute of Public Health and Environmental Protection, Bilthoven, The Netherlands.

WEB OF SCIENCE CORE COLLECTION AND OTHER CONTENTS: DIFFERENT LEVELS METADATA QUALITY

FLAVONOID INTAKE AND LONG-TERM RISK OF CORONARY-HEART-DISEASE AND CANCER IN THE 7 COUNTRIES STUDY

By: HERTOG, MGL (HERTOG, MGL); KROMHOUT, D (KROMHOUT, D); ARAVANIS, C (ARAVANIS, C); BLACKBURN, H (BLACKBURN, H); BUZINA, R (BUZINA, R); FIDANZA, F (FIDANZA, F); GIAMPAOLI, S (GIAMPAOLI, S); JANSEN, A (JANSEN, A); MENOTTI, A (MENOTTI, A); NEDELJKOVIC, S (NEDELJKOVIC, S); PEKKARINEN, M (PEKKARINEN, M); SIMIC, BS (SIMIC, BS); TOSHIMA, H (TOSHIMA, H); FESKENS, EJM (FESKENS, EJM); HOLLMAN, PCH (HOLLMAN, PCH); KATAN, MB (KATAN, MB)...Less

ARCHIVES OF INTERNAL MEDICINE

Volume: 155 Issue: 4 Pag

DOI: 10.1001/archinte.155.4.

Published: FEB 27 1995

View Journal Information

Web of Science Core Collection record: All Addresses

Author Information

Addresses:

+ [1] NATL INST PUBL HLTH & ENVIRONM PROTECT,DEPT CHRON DIS & ENVIRONM EPIDEMIOL,DIV PUBL HLTH RES,3720 BA BILTHOVEN,NETHERLANDS

[2] GREEK SOC STUDY ATHEROSCLEROSIS,ATHENS,GREECE

[3] MED CTR ATHENS,ATHENS,GREECE

+ [4] UNIV MINNESOTA,SCH PUBL HLTH,DIV EPIDEMIOL,MINNEAPOLIS,MN 55455

[5] INST DIABET ENDOCRINOL & METAB DIS,ZAGREB,CROATIA

+ [6] UNIV PERUGIA,INST FOOD SCI & NUTR,I-06100 PERUGIA,ITALY

+ [7] NATL INST HLTH,EPIDEMIOL & BIOSTAT LAB,ROME,ITALY

+ [8] UNIV BELGRADE,FAC MED,INTERNAL CLIN B,BELGRADE,

+ [9] UNIV BELGRADE,FAC MED,INST HYG,BELGRADE,

DIFFERENT LEVELS OF METADATA QUALITY
ENHANCED ORGANIZATIONS NAMES

Add	UNIV BELGARDE
Add	UNIV BELGRAD
Add	UNIV BELGRADDE
Add	UNIV BELGRADE
Add	UNIV BELGRADEV
Add	UNIV BELGRADO
Add	UNIV BELGRDE
Add	UNIV BEOGRAD
Add	UNIV BEOGRADE
Add	UNIV BEOGRADU

Addresses:

[1] Univ Belgrade, Innovat Ctr, Fac Technol & Met, Karnegijeva 4, Belgrade 11120, Serbia
Organization-Enhanced Name(s)
University of Belgrade

[2] Univ Belgrade, Vinca Inst Nucl Sci, Mike Petrovica Alasa 12-14, Belgrade 11120, Serbia
Organization-Enhanced Name(s)
University of Belgrade

[3] Plasma Jet Co, Branicevska 29, Belgrade 11000, Serbia

[4] Univ Belgrade, Inst Phys, Ctr Solid State Phys & New Mat, Pregrev 118, Zemun 11080, Serbia
Organization-Enhanced Name(s)
University of Belgrade

[5] Nanyang Technol Univ, SPMS CBC, 21 Nanyang Link, Singapore 637371, Singapore

[6] Univ Belgrade, Fac Technol & Met, Dept Met Engn, Karnegijeva 4, Belgrade 11120, Serbia
Organization-Enhanced Name(s)
University of Belgrade

Unification rules sets are built in complete transparency, using internal and external expertise

We communicate rules to institutions → They validate/modify/ complete the rules → Rules are updated and applied to more than a century of publication activity

DIFFERENT LEVELS OF METADATA QUALITY

ALL AUTHOR NAMES, ALL ADDRESSES

Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC

By: Aad, G (Aad, G.)[1] ; Abajyan, T (Abajyan, T.)[35] ; Abbott,
Abdel)[155,156] ; Abdelalim, AA (Abdelalim, A. A.)[75] ; Abdinov
(Abolins, M.)[125] ; AbouZeid, US (AbouZeid, U. S.)[216] ; Abra
[223,224] ; Adamczyk, L (Adamczyk, L.)[64] ; Adams, DL (Adam

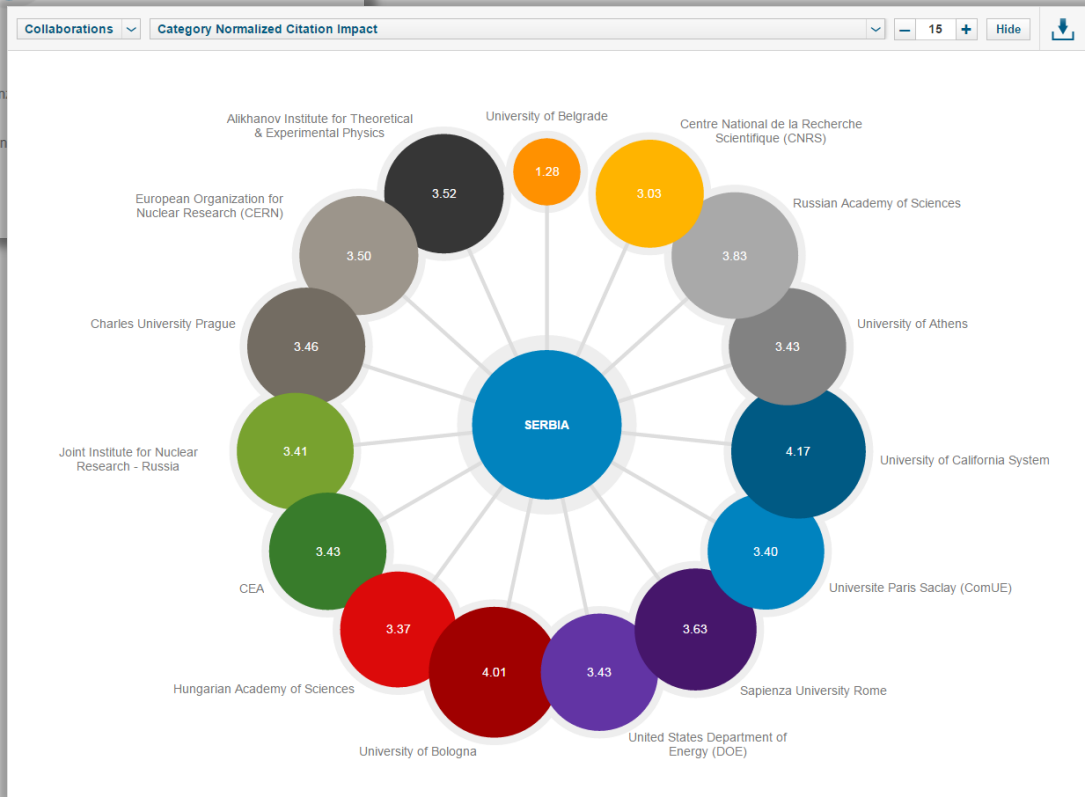
AUTHOR-AFFILIATION LINK SINCE 2008

Agustoni, M (Agustoni, M.)[20,21] ; Aharrouche, M (Aharrouche,
204,205] ; Ahsan, M (Ahsan, M.)[67] ; Aielli, G (Aielli, G.)[179,180
(Akimoto, G.)[212,213] ; Akimov, AV (Akimov, A. V.)[131] ; Alam
S (Albrand, S.)[83,84] ; Aleksa, M (Aleksa, M.)[49] ; Aleksandro
] ; Alexander, G (Alexander, G.)[210] ; Alexandre, G (Alexandre,
(Aliev, M.)[25] ; Alimonti, G (Alimonti, G.)[127] ; Alison, J (Aliso
Allwood-Spiers, SE (Allwood-Spiers, S. E.)[81] ; Almond, J (Alm
A.)[115] ; Alonso, F (Alonso, F.)[101,102] ; Altheimer, A (Altheim
] ; Amako, K (Amako, K.)[96] ; Amelung, C (Amelung, C.)[37] ;
Amorim, A (Amorim, A.)[169,243] ; Amram, N (Amram, N.)[210]

WITHOUT CONSISTENCY, NO MEANINGFUL DATA ANALYSIS IS POSSIBLE

[14] Univ Texas Arlington, Dept Phys, Arlington, TX 76019 USA
[15] Univ Athens, Dept Phys, Athens, Greece
[16] Natl Tech Univ Athens, Dept Phys, Zografos, Greece
[17] Azerbaijan Acad Sci, Inst Phys, Baku, Azerbaijan
[18] Univ Autonoma Barcelona, Dept Fis, E-08193 Barcelona, Spain
[19] Univ Autonoma Barcelona, Inst Fis Altes Energies, E-08193 Barcelona, Spain
[20] ICREA, Barcelona, Spain
[21] Univ Belgrade, Inst Phys, Belgrade, Serbia
Organization-Enhanced Name(s)
University of Belgrade
[22] Univ Belgrade, Vinca Inst Nucl Sci, Belgrade, Serbia
Organization-Enhanced Name(s)
University of Belgrade
[23] Univ Bergen, Dept Phys & Technol, Bergen, Norway
[24] Univ Calif Berkeley, Lawrence Berkeley Natl Lab, Div Phys, Berkeley, CA 94720 USA
[25] Humboldt Univ, Dept Phys, Berlin, Germany
[26] Univ Bern, High Energy Phys Lab, Bern, Switzerland
[27] Univ Bern, Albert Einstein Ctr Fundamental Phys, Bern, Switzerland
[28] Univ Birmingham, Sch Phys & Astron, Birmingham, W Midlands, England
[29] Bogazici Univ, Dept Phys, Istanbul, Turkey
[30] Dogus Univ, Div Phys, Istanbul, Turkey
[31] Gaziantep Univ, Dept Phys Engn, Gaziantep, Turkey
[32] Istanbul Tech Univ, Dept Phys, TR-80626 Istanbul, Turkey
[33] Univ Bologna, Dipartmento Fis, Bologna, Italy

Monitor your international collaborations



What is the impact of your collaborations?

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WITHOUT CONSISTENT METADATA
NO RELIABLE ANALYSIS CAN BE CONDUCTED

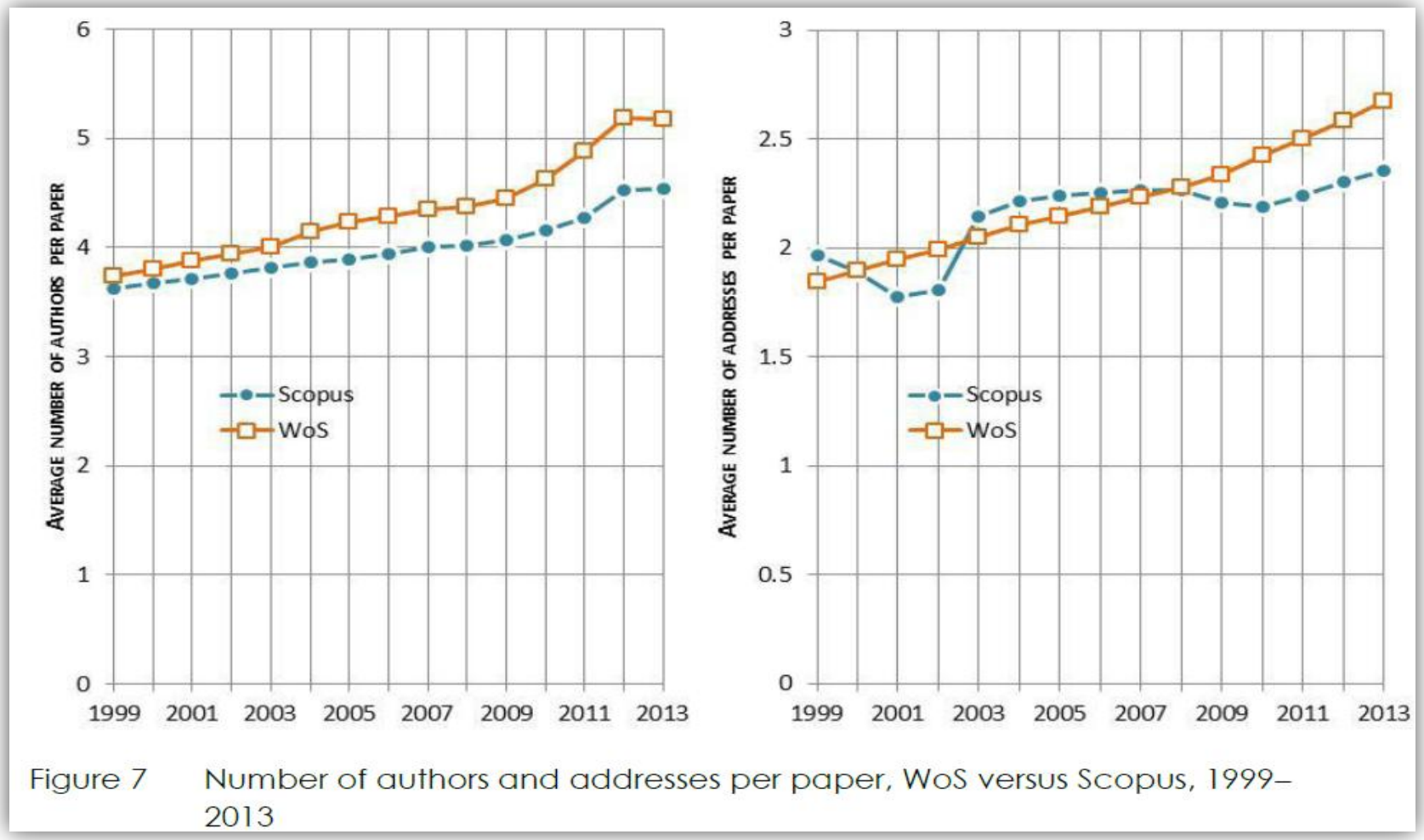


Figure 7 Number of authors and addresses per paper, WoS versus Scopus, 1999–2013

Source:

p.12, Science-Metrix: Bibliometrics and Patent Indicators for the Science and Engineering Indicators 2016

WHAT DO THE BIBLIOMETRIC EXPERTS THINK?
A BIBLIOMETRIC ANALYSIS ON WOS DATA & METADATA

Conclusions of the Bibliometrics and Patent Indicators for the Science and Engineering Indicators 2016 Report (p.33)

"The **quality of data recorded in the WoS** SCI and SSCI is generally **higher** than that in Scopus"

Notable variations in data quality between the two data sources include the following:

•While **the country is provided for all addresses in the WoS**, the country is **missing for about 10% of addresses in Scopus**

•The **city and postal code have been parsed in the WoS** but **not in Scopus**

•**Journal names and ISSN have been thoroughly standardized in the WoS**, but **only partially in Scopus**

•**Volume, issue and pages are more standardized in the WoS** than in Scopus

• **Scopus contains several documents for which the document type is incorrect** and that are erroneously counted as peer-reviewed papers

DIFFERENT LEVELS OF METADATA QUALITY

OPEN ACCESS JOURNALS

Electrochemical Behavior and antioxidant and prooxidant activity of natural phenolics

By: Simic, Aleksandra; Manojlovic, Dragan; Segan, Dejan; et al.
MOLECULES Volume: 12 Issue: 10 Pages: 2327-2340 Published: OCT 2007

Full Text from Publisher | View Abstract

Times Cited: 123
(from Web of Science Core Collection)

Usage Count

Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC

By: Aad, G.; Abbott
Group Author(s): AT
NEW JOURNAL OF

Times Cited: 106

Usage Count

Biological prope ir phy

By: Yanez-Mo, Maria; Siljander, Pia R. -M.; Andreu, Zoraida; et al.
JOURNAL OF EXTRACELLULAR VESICLES Volume: 4 Article N

Full Text from Publisher | View Abstract

Chemical Composition of Essential Oils of Thymus and Me Activities

By: Sokovic, Marina D.; Vukojevic, Jelena; Marin, Petar D.; et al.
MOLECULES Volume: 14 Issue: 1 Pages: 238-249 Published: JA

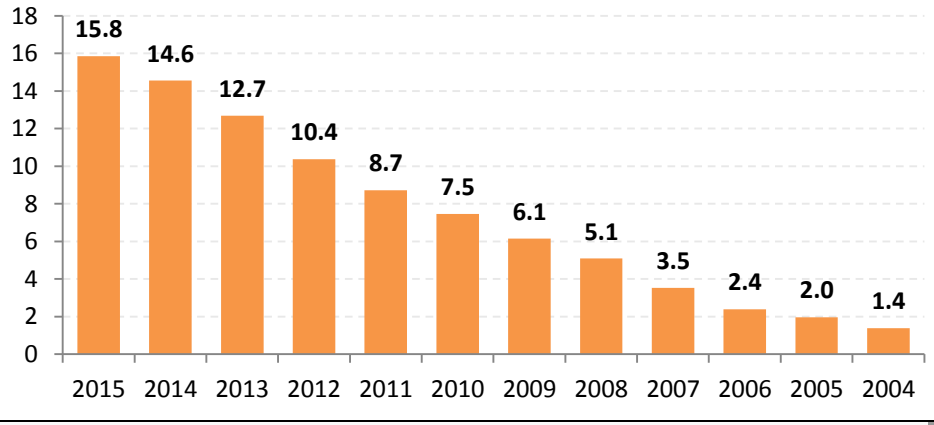
Full Text from Publisher | View Abstract

Open Access

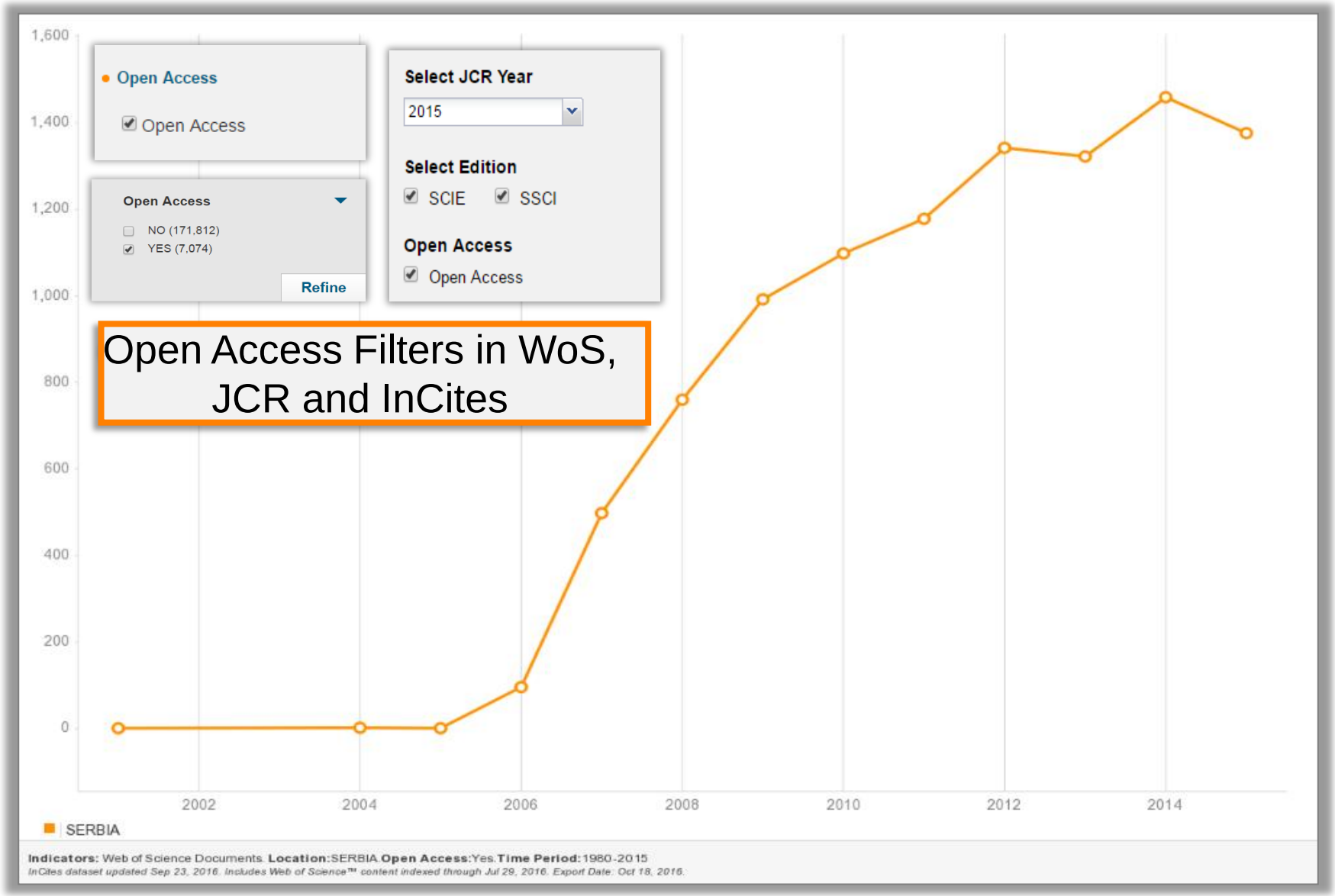
- [ ] NO (61,693,964)
- [x] YES (1,522,183)

OPEN ACCESS TITLES IN WOS CORE COLLECTION (1100+ TITLES)

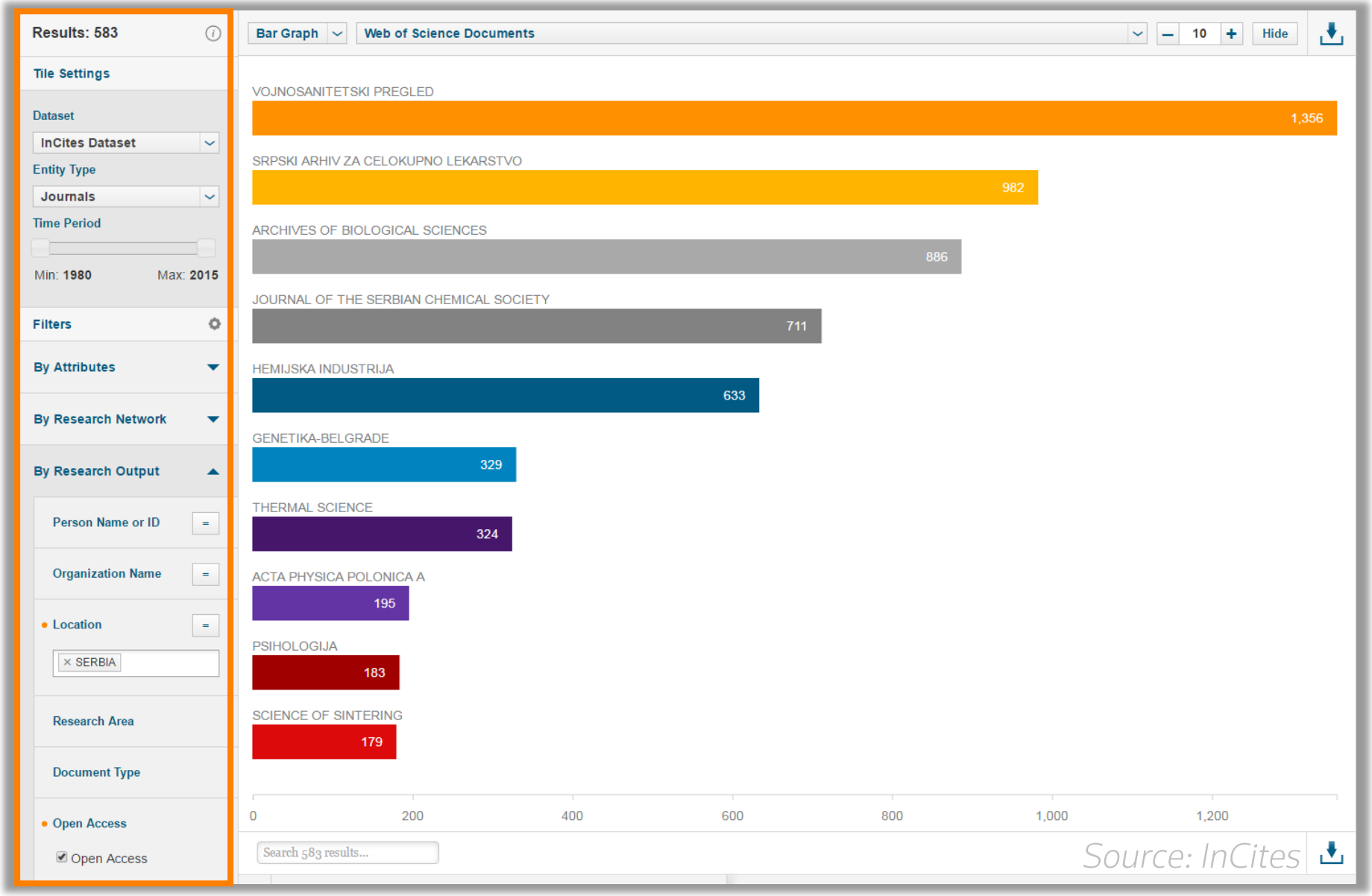
% of Growth in OA WoS Core Collection publications



OPEN ACCESS PRODUCTIVITY IN SERBIA



OPEN ACCESS JOURNALS SERBIAN RESEARCHERS HAVE PUBLISHED THE MOST 1980-2015



DIFFERENT LEVELS OF METADATA QUALITY
FUNDING ACKNOWLEDGEMENTS SINCE 2008

Funding

Funding Agency	Grant Number
Ministry of Education and Science of the Republic of Serbia	ON171017 NAD-BEC
DAAD - German Academic and Exchange Service	
European Commission under EU	
DST	
CSIR of India	
FAPESP	
CNPq of Brazil	

View funding text

Close funding text

D.V., I.V., and A.B. acknowledge support by the Ministry of Education and Science of the Republic of Serbia under projects No. ON171017 and NAD-BEC, by DAAD - German Academic and Exchange Service under project NAD-BEC, and by the European Commission under EU FP7 projects PRACE-1IP, PRACE-2IP, HP-SEE, and EGI-InSPIRE. P.M. acknowledges support by DST and CSIR of India. S.K.A. acknowledges support by FAPESP and CNPq of Brazil.

CURRENTLY WORKING TOWARDS UNIFICATION OF FUNDERS

700 FUNDERS UNIFIED IN INCITES

(Ministry of Science and Technological Development Serbia, Ministry of Science Serbia, European Commission, NASA, HEFCE, NERC, RCUK, EPSRC, Wellcome Trust, Leverhulme Trust WHO, European Cooperation in Science and Technology (COST), Institute for the Promotion of Innovation by Science and Technology in Flanders (IWT), Deutsche Forschungsgemeinschaft, Research Council of Norway, Dutch Cancer Society, etc)

DIFFERENT LEVELS OF METADATA QUALITY
FUNDING ACKNOWLEDGEMENTS SINCE 2008

Sources of funding for **University of Belgrade**: how do funded projects perform?

Name	Rank	▼ Web of Science Documents	Times Cited	% Docs Cited	Category Normalized Citation Impact	% Documents in Top 10%	Highly Cited Papers	% International Collaborations
Ministry of Science and Technological Development, Serbia	1	2,440	18,004	84.39%	0.68	5.49%	11	33.32%
Ministry of Science, Serbia	2	1,929	15,457	82.37%	0.69	5.7%	5	36.5%
National Science Foundation (NSF)	3	1,085	31,665	90.32%	3.31	37.33%	93	100%
German Research Foundation (DFG)	4	1,077	26,482	90.06%	2.9	35%	84	99.81%
United States Department of Energy (DOE)	5	1,077	31,091	90.71%	3.24	36.49%	88	99.44%

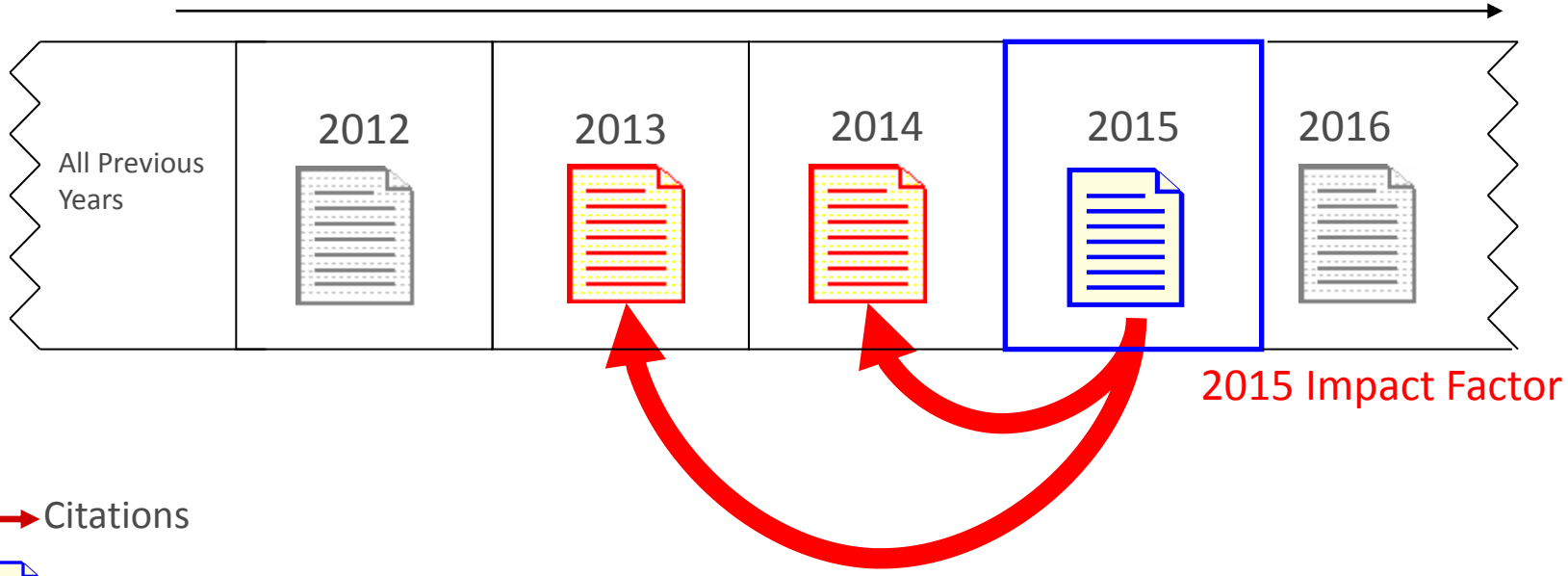
Which are the main funding bodies in the area of **Endocrinology & Metabolism**?

Name	Rank	▼ Web of Science Documents	Times Cited	% Docs Cited	Category Normalized Citation Impact	% Documents in Top 10%	Highly Cited Papers	% International Collaborations
National Institutes of Health (NIH) - USA	1	14,968	306,513	91.86%	1.51	18.26%	311	28.48%
National Natural Science Foundation of China	2	4,497	35,502	78.83%	0.92	8.43%	15	24.95%
Canadian Institutes of Health Research	3	2,632	43,710	89.74%	1.33	16.11%	40	36.78%
NIH National Institute of Diabetes & Digestive & Kidney Disea...	4	2,566	56,966	89.67%	1.76	20.5%	81	27.2%
Novo Nordisk	5	2,390	50,360	89%	1.77	19.92%	102	43.6%

THE JOURNAL IMPACT FACTOR

- The journal impact factor is a measure of the frequency with which the "average article" in a journal has been cited in a particular year.
- The impact factor will help you evaluate a journal's relative importance, especially when you compare it to others in the same field
- Ranking journals within the same field can help:
  - To spot new journals increasing their impact
  - To learn evolving contents of existing journals
- One common misuse of the IF is to evaluate papers, or people

INTRODUCTION TO THE IMPACT FACTOR
RETROSPECTIVE ANALYSIS

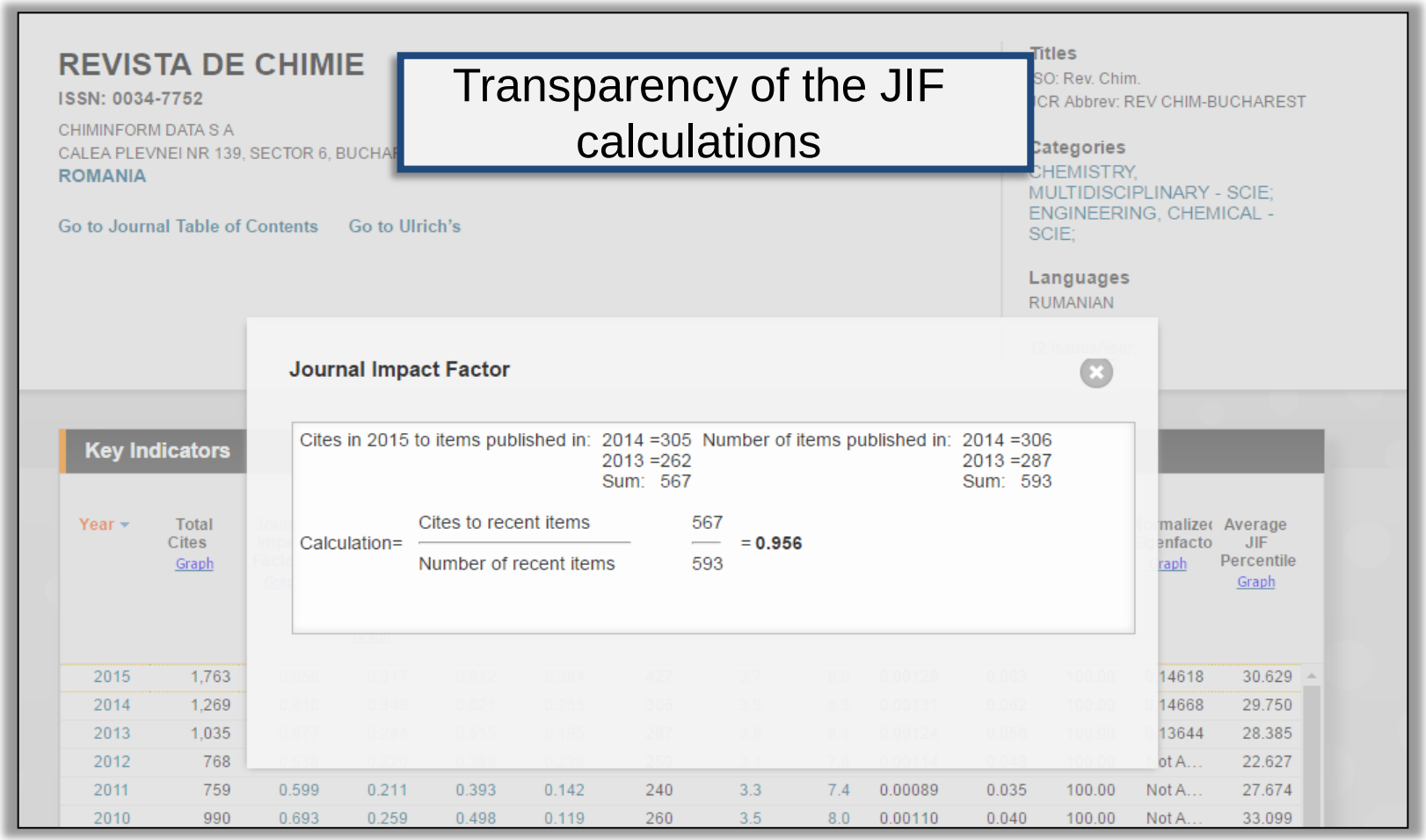


Citations

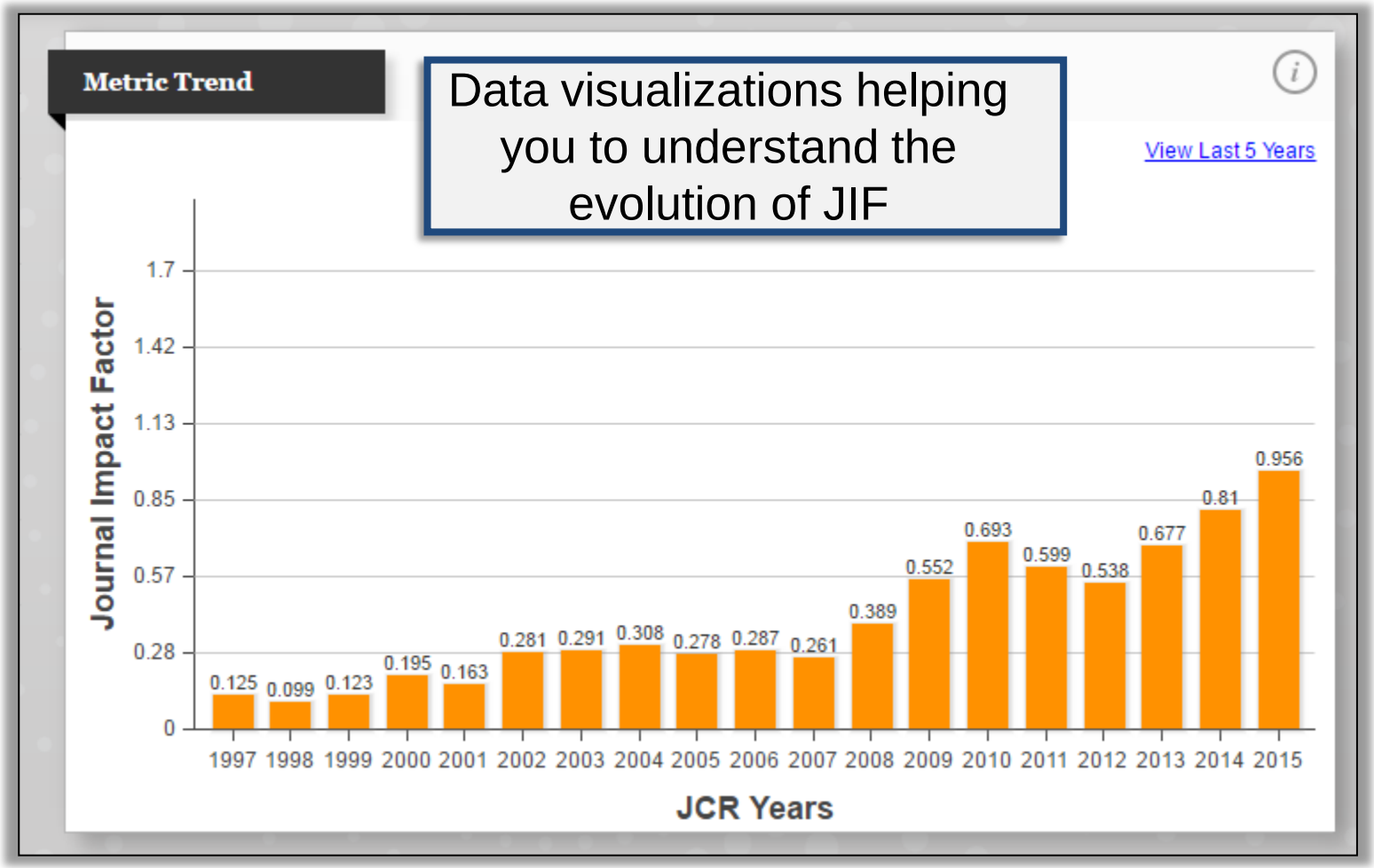
Source paper – published in 2015

Cited reference – published in 2014 or 2013

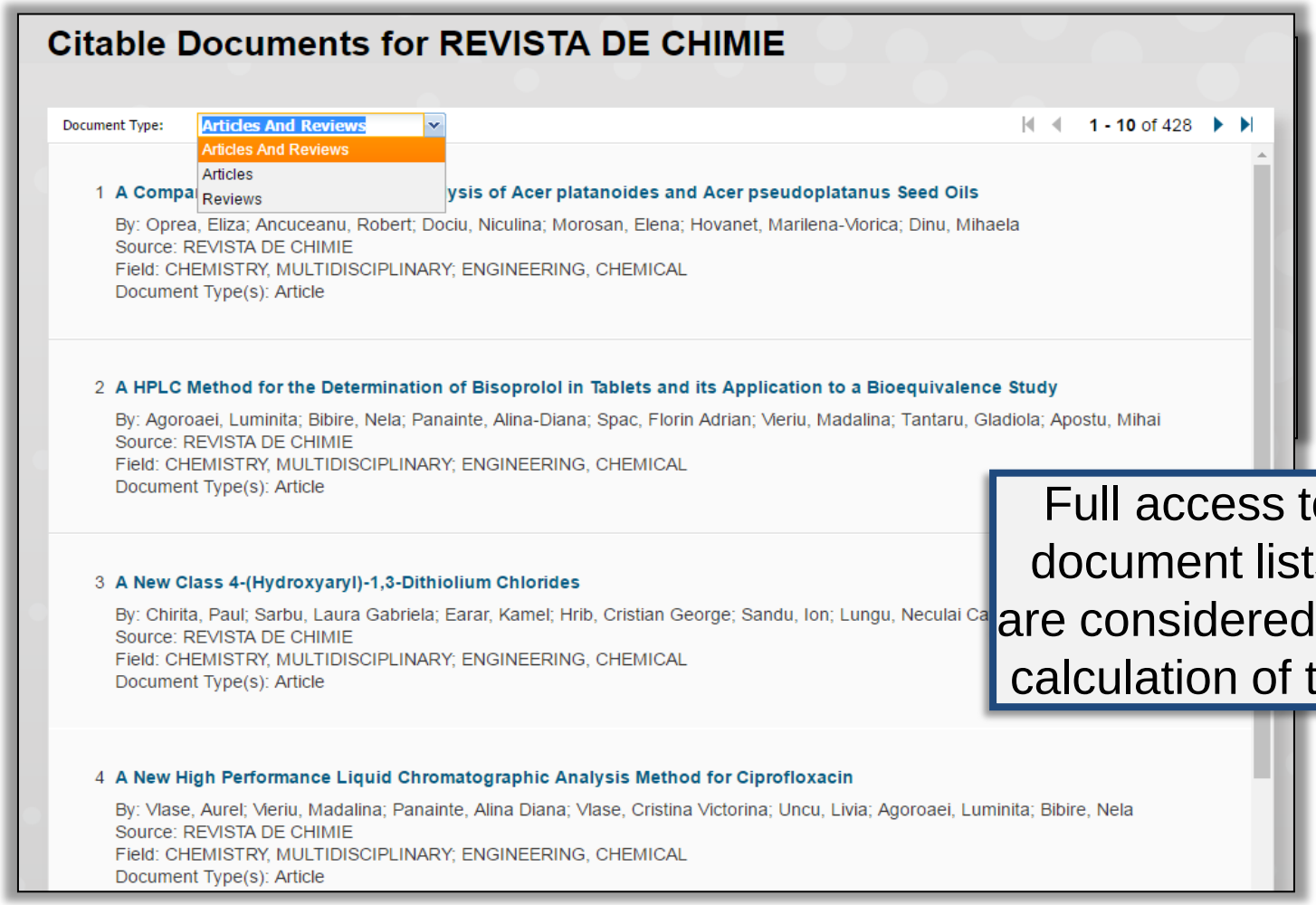
CALCULATING 2015 IMPACT FACTOR FOR A JOURNAL



CALCULATING 2015 IMPACT FACTOR FOR A JOURNAL



CALCULATING 2015 IMPACT FACTOR FOR A JOURNAL



Full access to the document lists that are considered for the calculation of the JIF

BENCHMARKING JOURNALS IN A SPECIFIC CATEGORY

	Category	Edition	#Journals	Total Cites	Median Impact Factor	Aggregate Impact Factor ▼
1	MULTIDISCIPLINARY SCIENCES	SCIE	55	2,079,971	0.786	5.882
2	CELL BIOLOGY	SCIE	185	1,784,263	3.333	5.815
3	CHEMISTRY, MULTIDISCIPLINARY	SCIE	148	2,195,260	1.401	5.222
4	CELL & TISSUE ENGINEERING	SCIE	18	76,359	3.535	4.940
5	NANOSCIENCE & NANOTECHNOLOGY	SCIE	73	799,992	1.768	4.902
6	NEUROIMAGING	SCIE	13	118,110	2.374	4.732
141	MANAGEMENT	SSCI	172	356,261	1.160	1.699
142	EDUCATION, SPECIAL	SSCI	37	26,278	1.013	1.694
142	PALEONTOLOGY	SCIE	48	77,218	1.168	1.694
144	ENGINEERING, CIVIL	SCIE	124	277,434	0.956	1.670
145	BUSINESS	SSCI	110	257,996	1.388	1.658

Journal rankings and comparisons are meaningful only within each category - not between categories or domains.

DISPARITIES IN CATEGORIES - 5 YEAR JIF

Citations accumulate slower for Social Sciences journals across time thus the 5 Year Impact Factor is often higher than its 2-Year counterpart

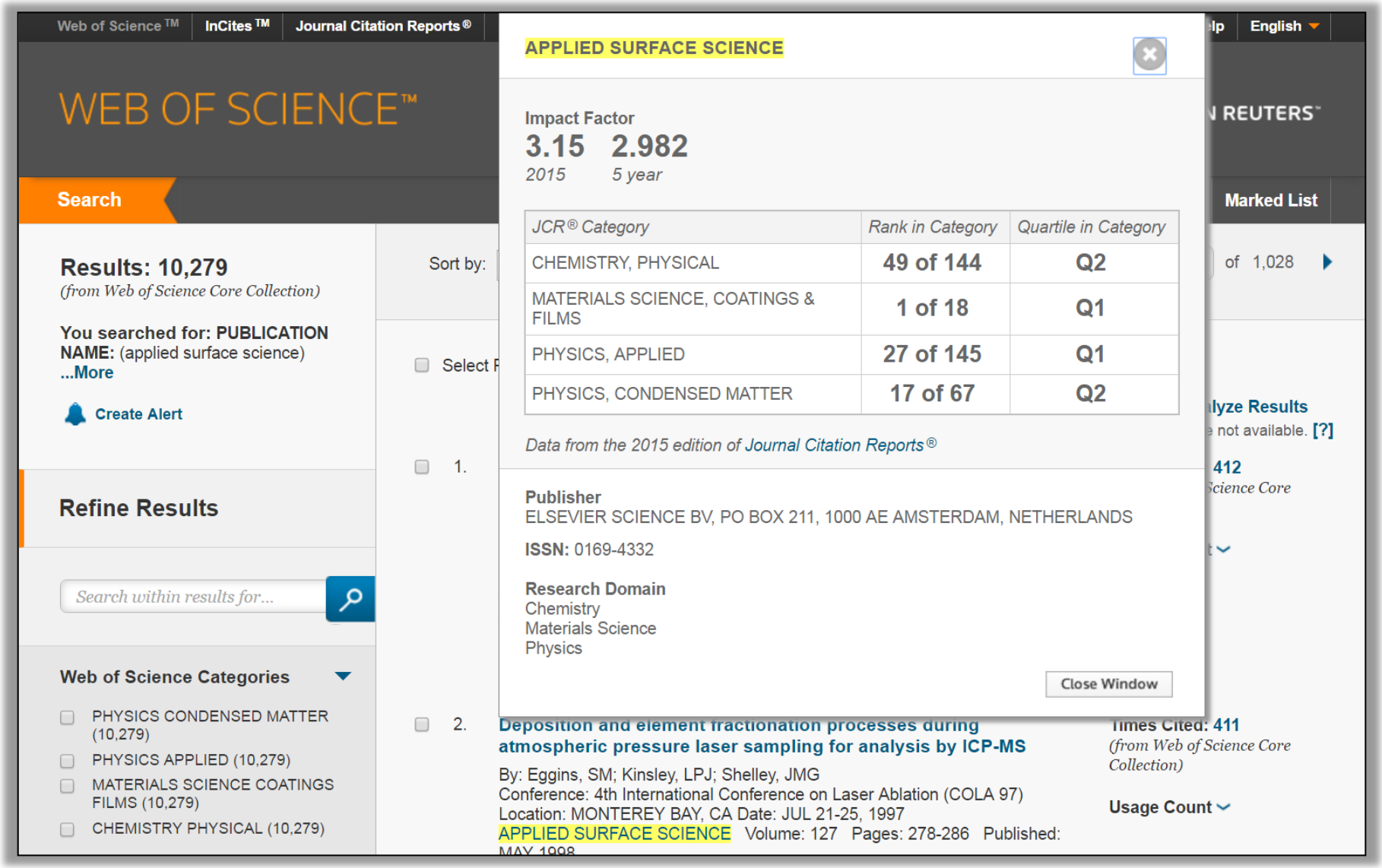
	Full Journal Title	Total Cites	Journal Impact Factor	5 Year Impact Factor ▾	Immediacy Index
1	Annual Review of Psychology	14,292	19.085	24.025	5.848
2	TRENDS IN COGNITIVE SCIENCES	21,382	17.850	23.872	2.444
3	BEHAVIORAL AND BRAIN SCIENCES	7,873	20.415	23.842	1.700
4	PSYCHOLOGICAL BULLETIN	39,345	14.839	21.971	1.850
5	Nature Climate Change	9,526	17.184	19.257	4.287
6	Annual Review of Clinical Psychology	3,653	12.214	15.462	2.438
7	AMERICAN JOURNAL OF PSYCHIATRY	41,752	13.505	15.298	3.402
8	World Psychiatry	2,410	20.205	15.214	5.143
9	Lancet Global Health	1,379	14.722	14.833	5.228
10	JAMA Psychiatry	4,034	14.417	14.441	3.720

DISPARITIES IN CATEGORIES – 2 YEAR JIF

	Full Journal Title	Total Cites	Journal Impact Factor ▾	5 Year Impact Factor	Immediacy Index
1	CA-A CANCER JOURNAL FOR CLINICIANS	20,488	137.578	145.020	46.423
2	NEW ENGLAND JOURNAL OF MEDICINE	283,525	59.558	56.170	20.012
3	LANCET	195,553	44.002	46.119	13.210
4	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	129,909	37.684	33.569	9.497
5	NATURE REVIEWS CANCER	41,846			
6	LANCET ONCOLOGY	30,800			
7	JOURNAL OF CLINICAL ONCOLOGY	141,362	20.982	18.021	6.854

The picture is different for the ‘Clinical Medicine’ category where we can see a shorter citation lag

DISPARITIES IN CATEGORIES



DISPARITIES IN CATEGORIES – CATEGORY RANKINGS, JIF QUARTILES & PERCENTILES

JCR Impact Factor

JCR Year	CHEMISTRY, PHYSICAL			MATERIALS SCIENCE, COATINGS & FILMS		
	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile
2015	49/144	Q2	66.319	1/18	Q1	97.222
2014	51/139	Q2	63.669	2/17	Q1	91.176
2013	56/136	Q2	59.191	2/18	Q1	91.667
2012	69/135	Q3	49.259	2/17	Q1	91.176
2011	66/134	Q2	51.119	2/18	Q1	91.667
2010	75/127	Q3	41.339	7/18	Q2	63.889
2009	73/121	Q3	40.083	6/17	Q2	67.647
2008	67/113	Q3	41.150	4/16	Q1	78.125
2007	67/111	Q3	40.090	6/18	Q2	69.444
2006	65/108	Q3	40.278	6/16	Q2	65.625
2005	71/111	Q3	36.486	7/19	Q2	65.789
2004	58/108	Q3	46.759	5/19	Q2	76.316
2003	56/101	Q3	45.050	6/16	Q2	65.625
2002	53/95	Q3	44.737	4/17	Q1	79.412
2001	58/93	Q3	38.172	5/16	Q2	71.875

Journal rankings and comparisons are meaningful only within each category - not between categories or domains.

GOING BEYOND THE JOURNAL IMPACT FACTOR
ARTICLE LEVEL METRICS

Web of Science Documents

Documents Per Page 10

Article Title	Authors	Source	Volume	Issue	Pages	Publication Date	Times Cited	Journal Expected Citations	Category Expected Citations	Journal Normalized Citation Impact	Category Normalized Citation Impact	Percentile in Subject Area
Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC	Aad, G.; Abajyan, T.; Abbott, B.; Abdallah, J.; Khalek, S. Abdel	PHYSICS LETTERS B	716	1	1-29	2012	3,462	26.23	12.72	132	272.23	0.01
Erlotinib in previously treated non-small-cell lung cancer	Shepherd, FA; Pereira, JR; Ciuleanu, T; Tan, EH; Hirsh, V	NEW ENGLAND JOURNAL OF MEDICINE	353	2	123-132	2005	3,298	495.07	43.67	6.66	75.52	0.02
Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC	Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; Tumasyan, A.; Adam, W.	PHYSICS LETTERS B	716	1	30-61	2012	3,286	26.23	12.72	125.29	258.39	0.01
Planck 2013 results. XVI. Cosmological parameters	Ade, P. A. R.; Aghanim, N.; Armitage-Caplan, C.; Arnaud, M.; Ashdown, M.	ASTRONOMY & ASTROPHYSICS	571	n/a	n/a	2014	3,149	11.4	7.54	276.23	417.53	0.01

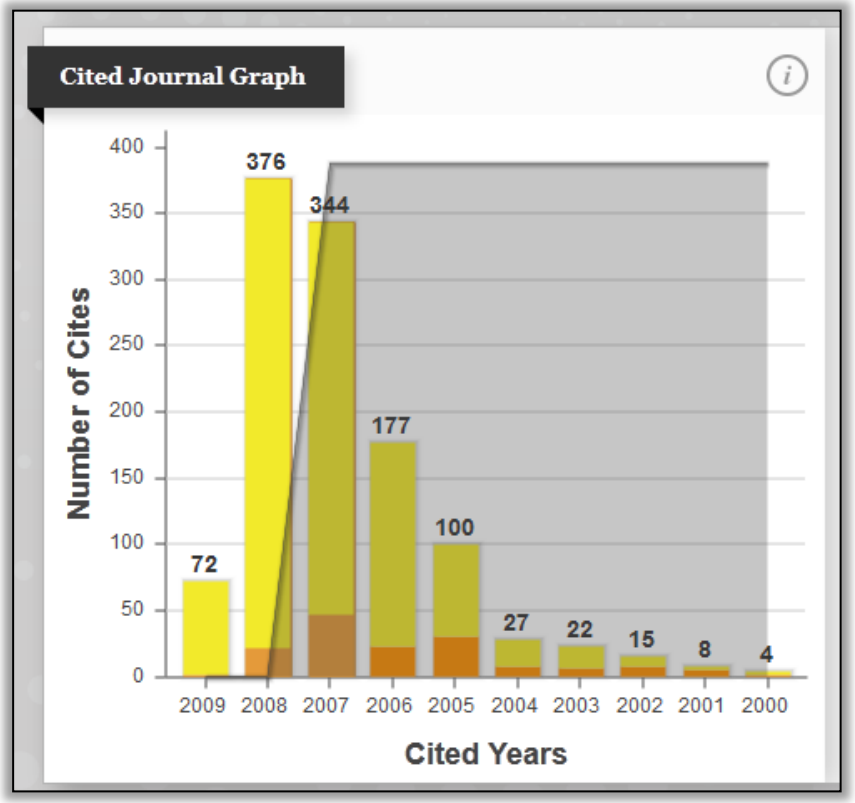
Source: InCites

SELF CITATIONS

- REV BRAS FARMACOGN: Regional coverage Expansion
- Regional coverage Expansion
- First Journal Impact Factor in 2009 was 3.462

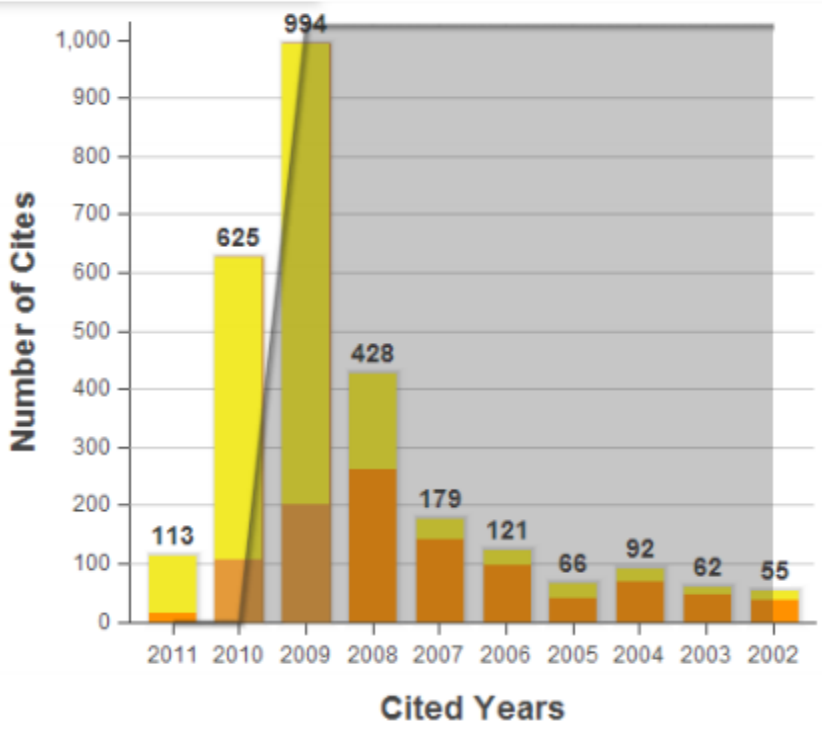
Year	Total Cites Graph	Journal Impact Factor Graph	Impact Factor Without Journal Self Cites Graph	5 Year Impact Factor Graph	Immediacy Index Graph
2014	1,057	0.834	0.806	0.807	0.029
2013	966	0.796	0.689	0.865	0.041
2012	822	0.676	0.509	0.886	0.098
2009	1,163	3.462	0.326	Not A...	0.576

Journal was suppressed from 2010 & 2011 JCR



Journal Self-Citation
Suppression of individual journals

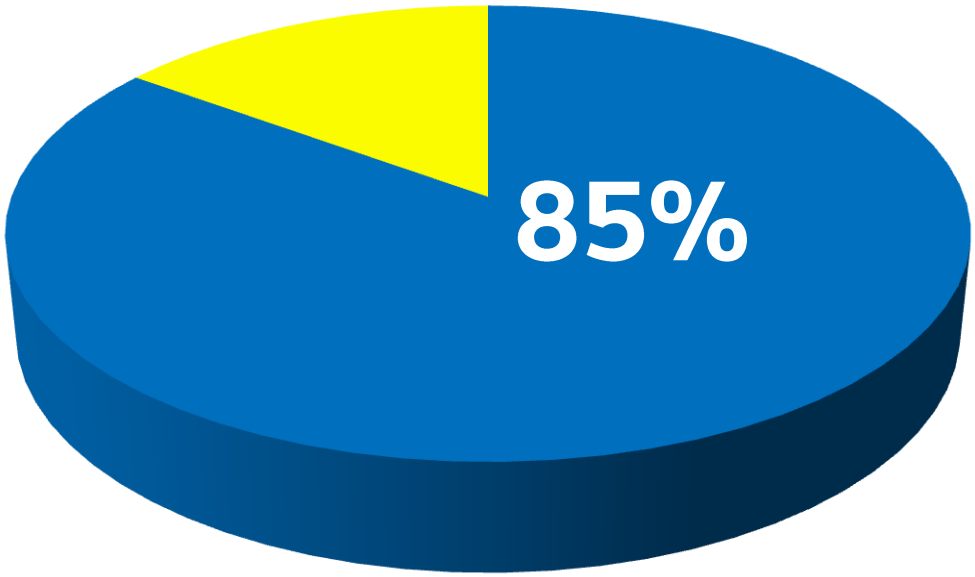
What the suppressed Journal metrics would look like



Total Cites	2790	Self Cites	1717 (61% of 2790)
Cites to Years Used in Impact Factor Calculation	1619	Self Cites to Years Used in Impact Factor Calculation	1308 (80% of 1619)
Impact Factor	10.722	Impact Factor without Self Cites	2.060

- **Data considered:**
  - Total citations (TC)
  - Journal Impact Factor (JIF)
  - Rank in category
  - % of journal self-citations in Journal Impact Factor numerator
  - Proportional increase in Journal Impact Factor with/without journal self-citations
  - Effect of journal self-citations on rank in category by Journal Impact Factor
- **Journals in bottom 10% ranking by TC and/or by JIF are not suppressed**
- **Suppressed journals represent extreme outliers in citation behavior**
- **Science Edition and Social Sciences Edition are analyzed separately**
- **Journals are suppressed for one year, and re-evaluated with the next year's data.**

SELF CITATIONS



Most journals have self-citation rates of less than or equal to **15%**

Source: *JCR* Science Edition (2010)

- Excessive self-citation weakens the integrity of the journal's Impact Factor
- Journals with excessive self-citation may be suppressed from Journal Citation Reports until the problem is corrected

More information on journal suppression is available at: http://wokinfo.com/media/pdf/jcr-suppression.pdf

SPECIAL CASE: MUTUAL CITATIONS

CELL TRANSPLANTATION
ISSN: 0963-6897
COGNIZANT COMMUNICATION CORP
3 HARTSDALE ROAD, ELMSFORD, NY 10523-3701
USA

Journal self-citations are concentrated in Journal Impact Factor years

High-value citation partners show extreme concentration

Cited Journal Data

	Impact	Citing Journal	All Yrs	2010	2009	2008	2007	2008	2007	2006	2005	2004	2003	2002	2001	Rest
1		ALL Journals	3,711	95	777	805	331	805	331	277	172	208	186	153	95	612
2		ALL OTHERS (360)	360	5	32	52	38	52	38	40	24	24	27	15	15	88
3	6.204	CELL TRANSPLANT	718	49	250	234	58	234	58	33	16	19	13	8	8	30
4	1.699	MED SCI MONITOR	445	0	226	219	0	219	0	0	0	0	0	0	0	0
5	1.524	THESCIENTIFICWORLDJO	96	0	96	0	0	0	0	0	0	0	0	0	0	0
6	4.636	TISSUE ENG	96	1	7	7	7	7	7	13	3	10	8	9	4	27
7	7.883	BIOMATERIALS	77	0	9	15	7	15	7	3	6	12	1	3	1	20
8	0.993	TRANSPL P	67	4	15	13	4	13	4	7	3	1	6	5	2	7
9	3.676	TRANSPLANTATION	57	2	4	7	1	7	1	4	3	6	3	6	1	20
10	1.379	ADV EXP MED BIOL	46	0	1	8	2	8	2	6	1	3	3	2	3	17
11	4.791	STEM CELLS DEV	42	0	6	8	7	8	7	4	1	5	5	0	1	5
12	3.044	J BIOMED MATER RES A	41	0	0	6	1	6	1	2	3	4	1	6	3	15
13		METHOD MOL BIOL	34	0	0	2	3	2	3	7	3	5	8	1	1	4
14	13.577	ADV DRUG DELIVER REV	31	1	3	4	4	4	4	2	4	3	0	4	0	6
15	2.925	CYTOTHERAPY	30	0	2	6	7	6	7	3	1	2	2	4	0	3

SPECIAL CASE: MUTUAL CITATIONS

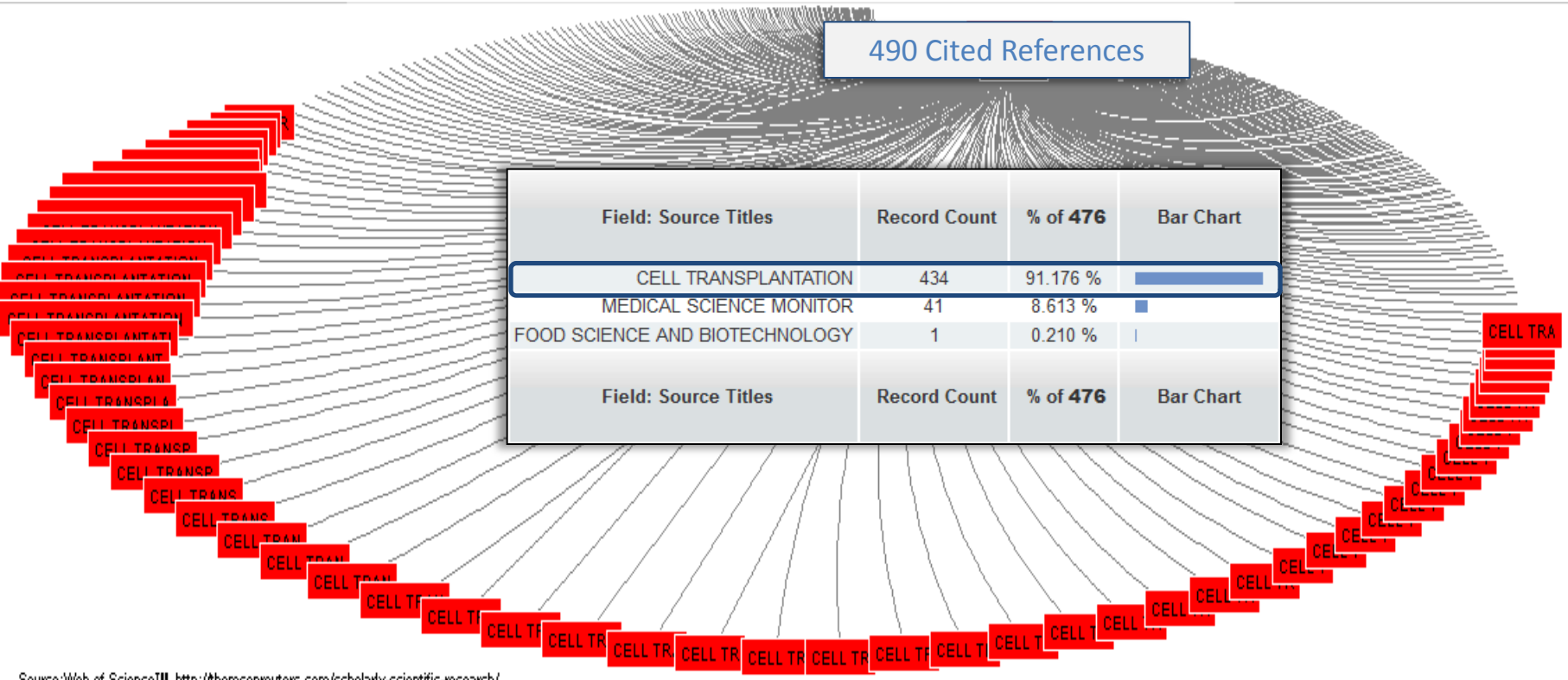
Stem cells have the potential to rejuvenate regenerative medicine research

By: Eve, DJ (Eve, David J.)[1]; Fillmore, RW (Fillmore, Randolph W.)[1]; Borlongan, CV (Borlongan, Cesar V.)[1]; Sanberg, PR (Sanberg, Paul R.)[1]

MEDICAL SCIENCE MONITOR
Volume: 16 **Issue:** 10 **Pages:** RA197-RA217
Published: 2010
View Journal Information

Citation Network

9 Times Cited
490 Cited References
View Related Records
View Citation Map
Create Citation Alert
(data from Web of Science ™ Core Collection)



Field: Source Titles	Record Count	% of 476	Bar Chart
CELL TRANSPLANTATION	434	91.176 %	
MEDICAL SCIENCE MONITOR	41	8.613 %	
FOOD SCIENCE AND BIOTECHNOLOGY	1	0.210 %	
Field: Source Titles	**Record Count**	**% of 476**	**Bar Chart**

Source:Web of Science™, http://thomsonreuters.com/scholarly-scientific-research/

WEB OF SCIENCE INTEGRATION WITH JOURNAL HIGHLY CITED DATA

Web of Science ™ | InCites ™ | Journal Citation Reports ® | Essential Science Indicators SM | EndNote ™

Metal organic framework based mixed matrix membranes: An increasingly important field of research with a large application potential

By: Zornoza, Beatriz; Tellez, Carlos; Coronas, Joaquin; et al.
Conference: 5th International Conference of the Federation-of-European-Zeolite-Associations (FEZA) Location: Valencia, SPAIN Date: JUL 03-07, 2011
Sponsor(s): Federat European Zeolite Assoc (FEZA); Spanish Zeolite Grp
MICROPOROUS AND MESOPOROUS MATERIALS Volume: 166 Special Issue: SI Pages: 67-78 Published: JAN 15 2013

Full Text from Publisher | View Abstract

Times Cited: 82
(from Web of Science Core Collection)
Highly Cited Paper

Times Cited: 81
(from Web of Science Core Collection)
Hot Paper
Highly Cited Paper

MICROPOROUS AND MESOPOROUS MATERIALS

Contextualizing the Journal Impact Factor in the Web of Science

Impact Factor

3.349	3.455
2015	*5 year*

JCR® Category	*Rank in Category*	*Quartile in Category*
CHEMISTRY, APPLIED	10 of 72	Q1
CHEMISTRY, PHYSICAL	45 of 144	Q2
MATERIALS SCIENCE, MULTIDISCIPLINARY	56 of 271	Q1
NANOSCIENCE & NANOTECHNOLOGY	31 of 83	Q2

Data from the 2015 edition of Journal Citation Reports®

JCR Impact Factor

JCR Year	CHEMISTRY, APPLIED			CHEMISTRY, PHYSICAL		
	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile
2014	7/70	Q1	90.714	40/139	Q2	71.583
2013	10/71	Q1	86.620	43/136	Q2	68.750
2012	8/71	Q1	89.437	41/135	Q2	70.000
2011	8/71	Q1	89.437	40/134	Q2	70.522
2010	5/70	Q1	93.571	38/127	Q2	70.472
2009	8/64	Q1	88.281	41/121	Q2	66.529
2008	9/61	Q1	86.066	38/113	Q2	66.814
2007	12/62	Q1	81.452	40/111	Q2	64.414
2006	3/58	Q1	95.690	29/108	Q2	73.611
2005	3/59	Q1	95.763	23/111	Q1	79.730
2004	8/58	Q1	87.069	40/108	Q2	63.426
2003	3/57	Q1	95.614	26/101	Q2	74.752
2002	5/59	Q1	92.373	30/95	Q2	68.947
2001	3/58	Q1	95.690	23/93	Q1	75.806
2000	7/55	Q1	88.182	28/91	Q2	69.780

WEB OF SCIENCE INTEGRATION WITH JOURNAL HIGHLY CITED DATA

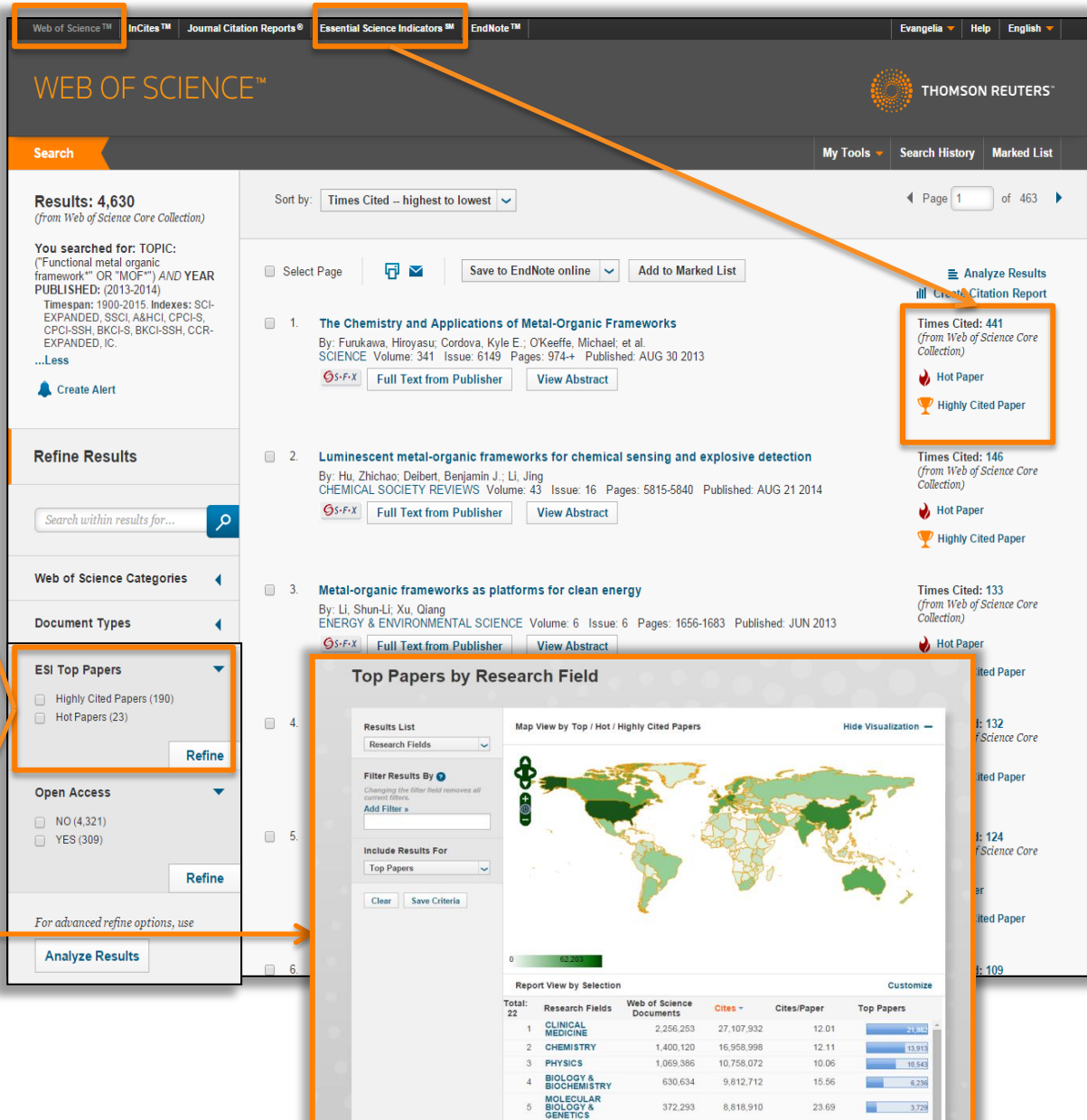
Discover Highly Cited & Hot Papers in Web of Science

This **hot paper** was published in the past two years and received enough citations in January/February 2015 to place it in the top 0.1% of papers in the academic field of Chemistry.

*Data from **Essential Science Indicators℠***

As of January/February 2015, this **highly cited paper** received enough citations to place it in the top 1% of the academic field of Chemistry based on a highly cited threshold for the field and publication year.

*Data from **Essential Science Indicators℠***



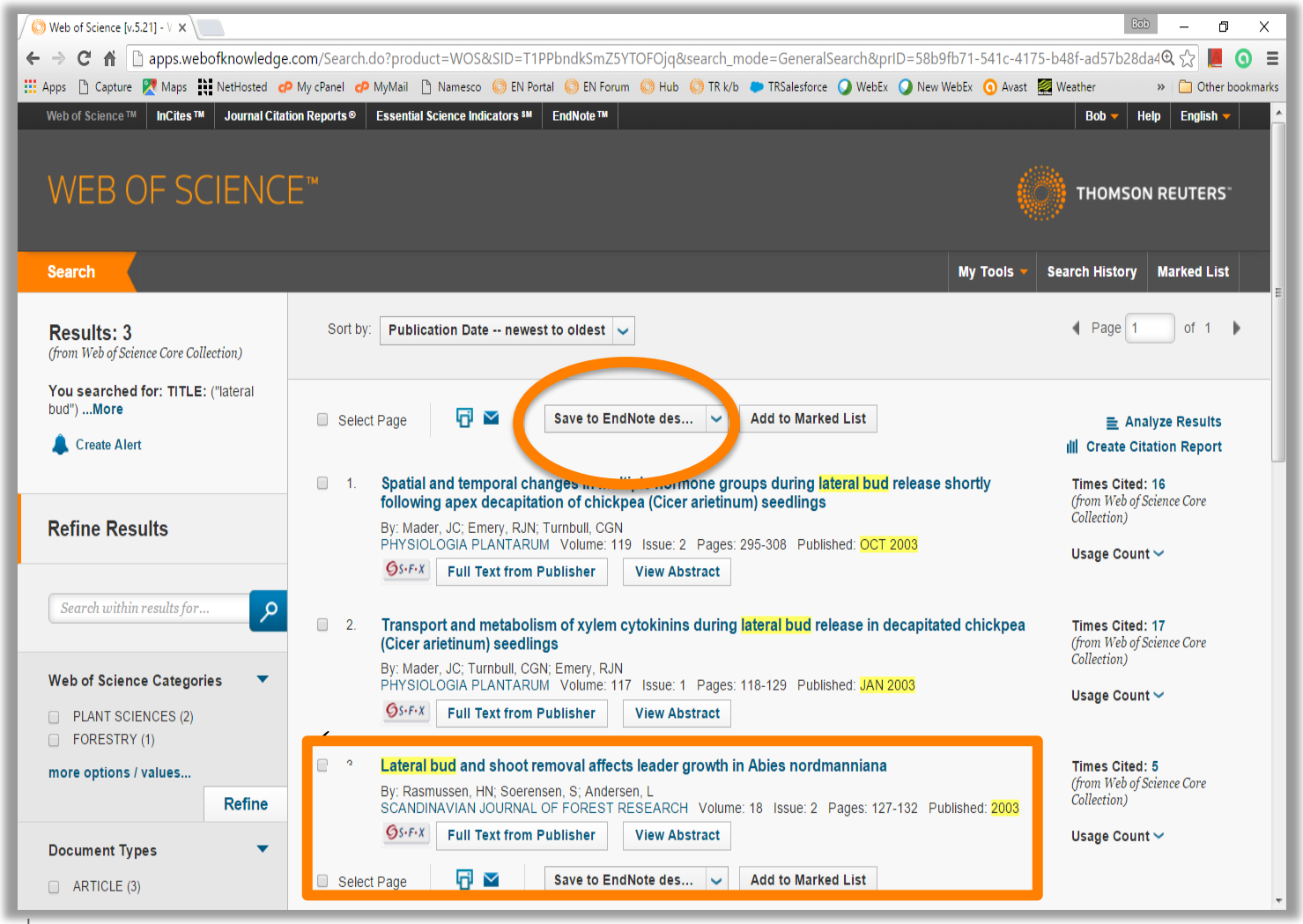
INSTITUTIONAL JOURNAL ANALYSIS
LOCAL JOURNAL UTILIZATION REPORT

Source: InCites

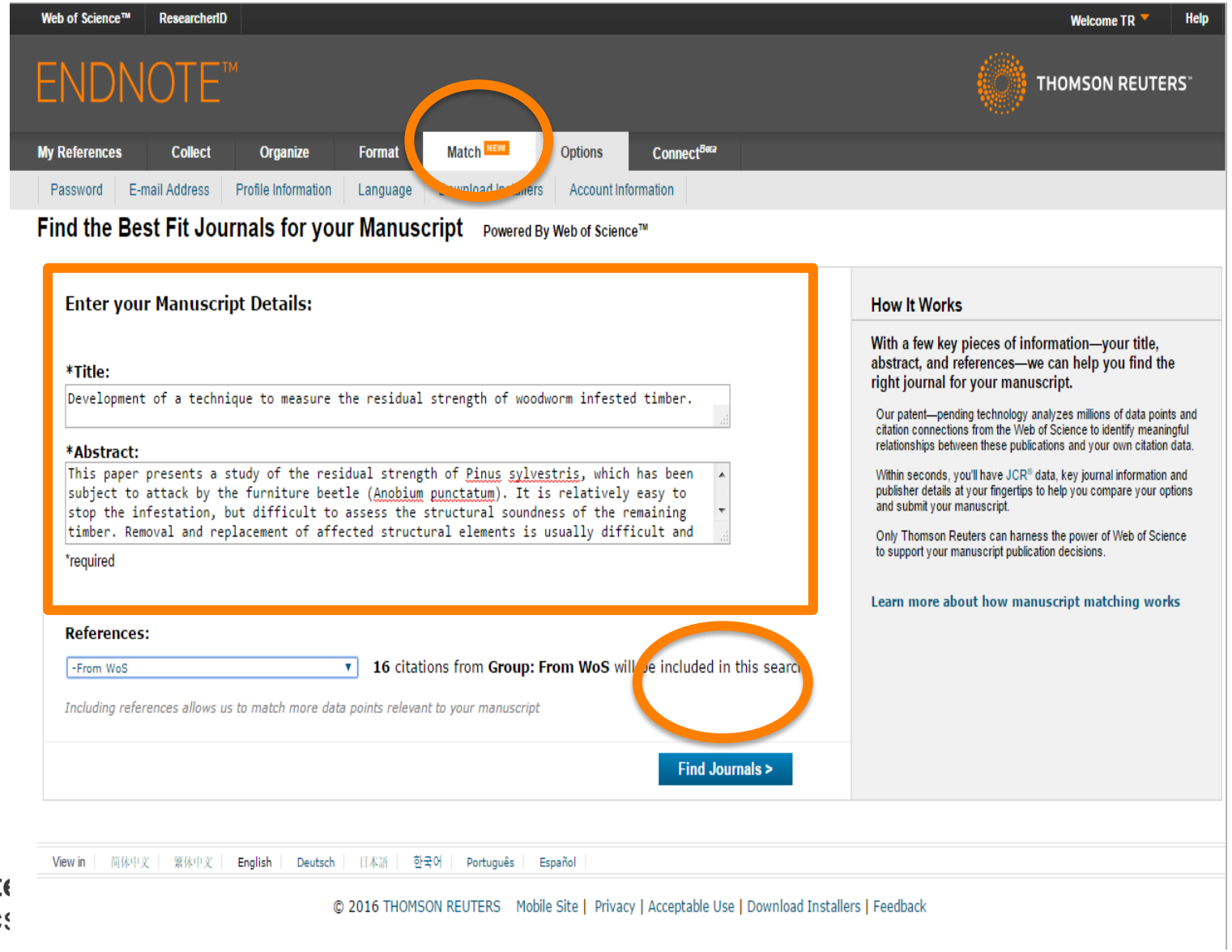
INSTITUTIONAL JOURNAL ANALYSIS
LOCAL JOURNAL UTILIZATION REPORT

Source: InCites

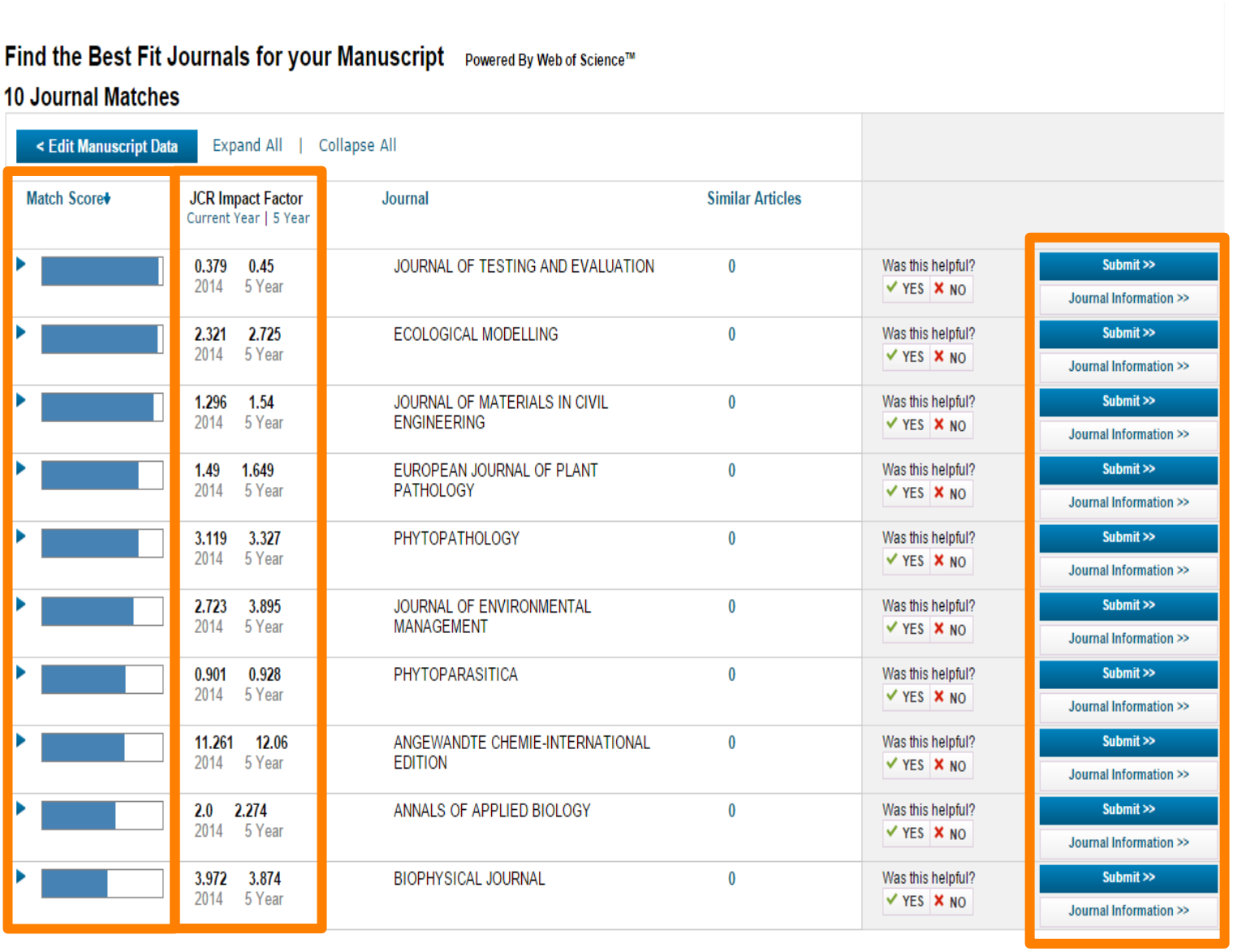
WHY ENDNOTE: STRONG LINKS WITH WEB OF SCIENCE



MANUSCRIPT MATCH: TARGET THE RIGHT JOURNAL



MANUSCRIPT MATCH: TARGET THE RIGHT JOURNAL



Find the Best Fit Journals for your Manuscript

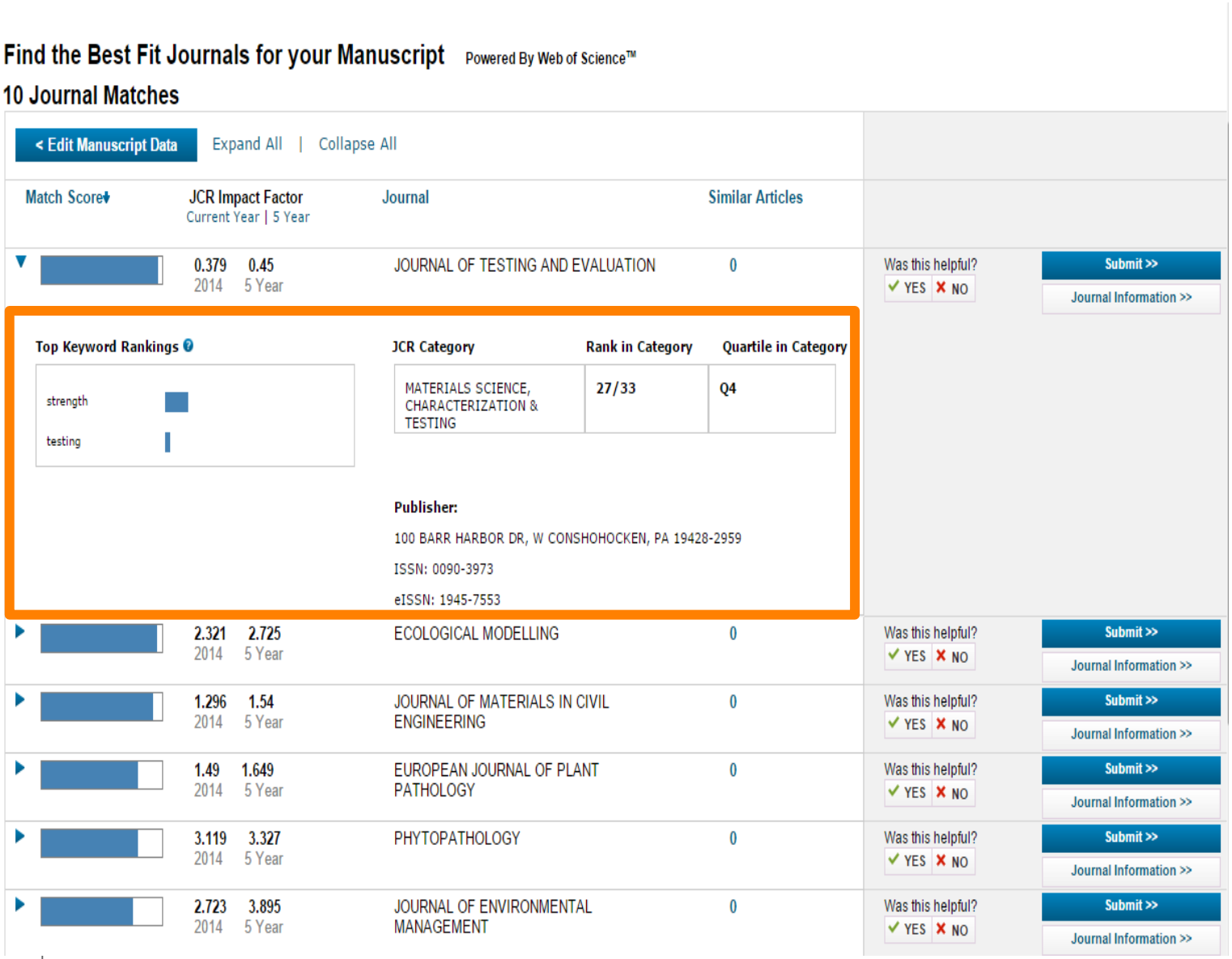
Powered By Web of Science™

10 Journal Matches

< Edit Manuscript Data | Expand All | Collapse All

Match Score	JCR Impact Factor (Current Year | 5 Year)	Journal	Similar Articles		
	0.379 0.45 2014 5 Year	JOURNAL OF TESTING AND EVALUATION	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	2.321 2.725 2014 5 Year	ECOLOGICAL MODELLING	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	1.296 1.54 2014 5 Year	JOURNAL OF MATERIALS IN CIVIL ENGINEERING	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	1.49 1.649 2014 5 Year	EUROPEAN JOURNAL OF PLANT PATHOLOGY	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	3.119 3.327 2014 5 Year	PHYTOPATHOLOGY	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	2.723 3.895 2014 5 Year	JOURNAL OF ENVIRONMENTAL MANAGEMENT	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	0.901 0.928 2014 5 Year	PHYTOPARASITICA	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	11.261 12.06 2014 5 Year	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	2.0 2.274 2014 5 Year	ANNALS OF APPLIED BIOLOGY	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
	3.972 3.874 2014 5 Year	BIOPHYSICAL JOURNAL	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>

MANUSCRIPT MATCH: TARGET THE RIGHT JOURNAL



Find the Best Fit Journals for your Manuscript Powered By Web of Science™

10 Journal Matches

< Edit Manuscript Data | Expand All | Collapse All

Match Score	JCR Impact Factor (Current Year | 5 Year)	Journal	Similar Articles		
▼	0.379 (2014) 0.45 (5 Year)	JOURNAL OF TESTING AND EVALUATION	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
▶	2.321 (2014) 2.725 (5 Year)	ECOLOGICAL MODELLING	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
▶	1.296 (2014) 1.54 (5 Year)	JOURNAL OF MATERIALS IN CIVIL ENGINEERING	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
▶	1.49 (2014) 1.649 (5 Year)	EUROPEAN JOURNAL OF PLANT PATHOLOGY	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
▶	3.119 (2014) 3.327 (5 Year)	PHYTOPATHOLOGY	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>
▶	2.723 (2014) 3.895 (5 Year)	JOURNAL OF ENVIRONMENTAL MANAGEMENT	0	Was this helpful? ✓ YES ✗ NO	Submit >> Journal Information >>

Top Keyword Rankings

strength

testing

JCR Category	Rank in Category	Quartile in Category
MATERIALS SCIENCE, CHARACTERIZATION & TESTING	27/33	Q4

Publisher:

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eISSN: 1945-7553

HOW CAN I IMPROVE MY JOURNAL?

- Active recruitment of high-impact authors and articles
- Offering better service to authors
- Boosting the journal's media profile
- More careful article selection

M. Chew, E. V. Villanueva, and M. B. Van Der Weyden, *Journal of the Royal Society of Medicine* **100** (3), 142 (2007).

Clarivate Analytics can help.

Thank you!

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