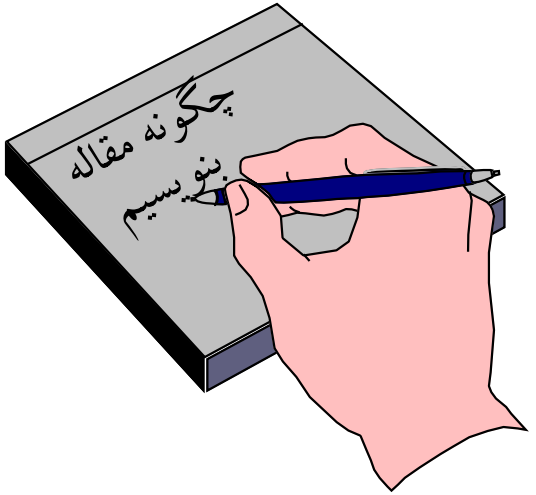
معاونت تحقیقات و فناوری
مرکز توسعه و هماهنگی پژوهش

دانشگاه علوم پزشکی و خدمات بهداشتی درمانی تبریز

چگونه مقاله بنویسیم؟



دکتر مرتضی قوجازاده

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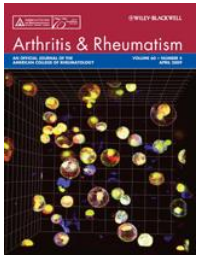
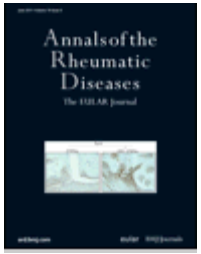
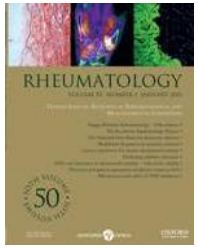
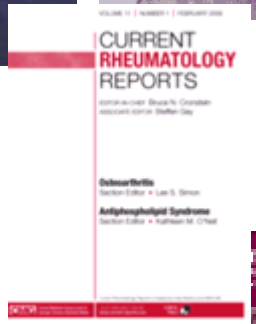
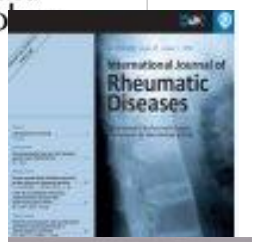
Traditional and alternative individual and journal impact factors

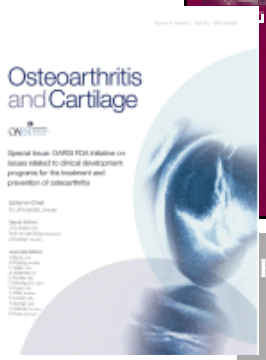


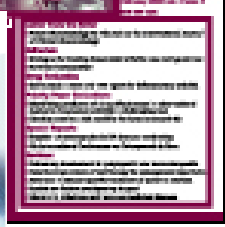


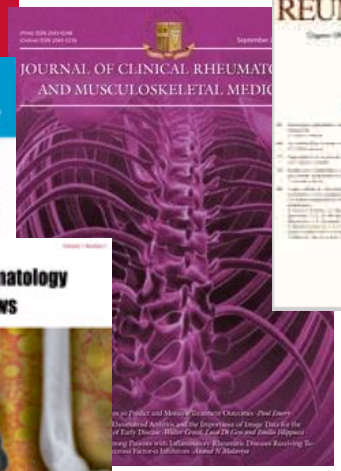


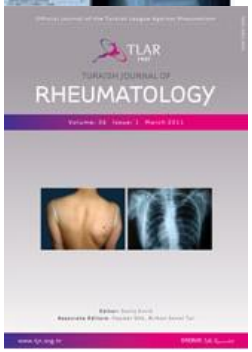


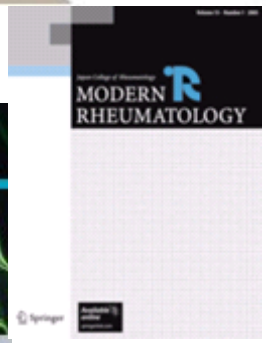


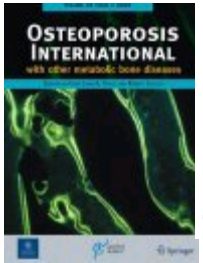








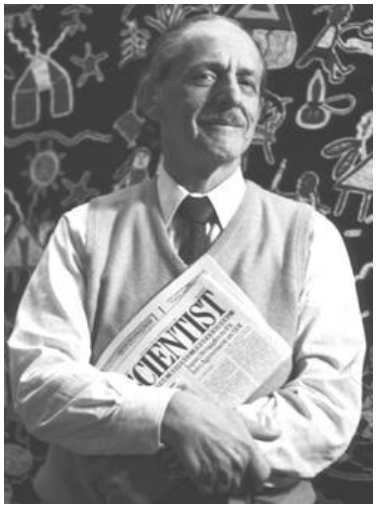




Open Access Rheumatology: Research and Reviews

- **A degree in chem & a graduate degree in library sciences; Columbia Uni; 1940s**
- **An indexing project, J Hopkins Uni School of Med (sorting out papers and journals; early 1950s; funded by Army Med Lib-Armed Forces Med Lib-NLM)**
- **"Documentation consultant", Columbia Uni**
- **Adjunct Prof of computer and information science; Uni Pennsylvania**
- **PhD in Structural Linguistics, 1961**
- **ISI – a part of TR (1955) and SCI (1961)**
- **"Nature and Science are the most influential"**

"Grandfather of Google"



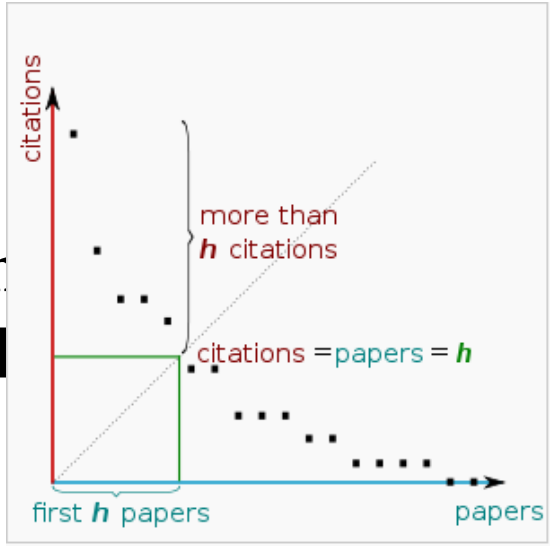
What seems to be needed, then, in addition to better and more comprehensive indexes, alphabetical and classified, are new types of bibliographic tools that can help to span the gap between the subject approach of those who create documents—that is, authors—and the subject approach of the scientist who seeks information.

Title: CITATION INDEXES FOR SCIENCE - NEW DIMENSION IN DOCUMENTATION THROUGH ASSOCIATION OF IDEAS
Author(s): GARFIELD, E
Source: **SCIENCE** Volume: **122** Issue: **3159** Pages: **108-111** Published: **1955**
Times Cited: **494**

Main points in bibliometrics

- **Limited funding – selective to journals in library**
- **Most read journals with highly cited articles = “quality”**
- **More read/cited articles influence science**
- **Articles cited in reputable journals are “weighed” more**
- **Critical/selective citation of comprehensive, high quality sources free of misconduct – the aim of bibliography (eg CC, SCI, SSCI, A&HCI)**

Hirsch (H) index



- **N of papers and their citations**
- **N of papers with at least H citations each (the rest with fewer than H citations each**
- **H 10-12=Assoc Prof**

  H 18=Prof

  H 15-20=Fellow of Am Phys Soc

  H 45=Member US NASci
- **H 20 after 20 years of activity is a success**
- **H 40 after 20 years of work - elite scientist**
- **H 60 after 20 years of activity – exception**

An index to quantify an individual's scientific research output	Hirsch, J.E.	2005	*Proceedings of the National Academy of Sciences of the United States of America* 102 (46) , pp. 16569-16572	1102

1	Journal weighted impact factor: A proposal Full Text | Show abstract | Related documents	Habibzadeh, F., Yadollahie, M.	2008	*Journal of Informetrics* 2 (2) , pp. 164-172	17
2	Rules of the game of scientific writing: fair play and plagiarism Full Text | | Related documents	Vessal, K., Habibzadeh, F.	2007	*Lancet* 369 (9562) , pp. 641	15
3	Hypoparathyroidism with extensive intracerebral calcification in patients with β-thalassemia major Show abstract | Related documents	Karimi, M., Habibzadeh, F., De Sanctis, V.	2003	*Journal of Pediatric Endocrinology and Metabolism* 16 (6) , pp. 883-886	10
4	A snapshot of medical journals from the Middle East.	Habibzadeh, F.	2006	*Lancet* 367 (9515) , pp. 978	9
5	A bird's eye view of science publishing and editing in Iran | Related documents	Habibzadeh, F.	2006	*European Science Editing* 32 (4) , pp. 98-100	7
6	Isolated lingual leishmaniasis Show abstract | Related documents	Habibzadeh, F., Sajedianfard, J., Yadollahie, M.	2005	*Journal of Postgraduate Medicine* 51 (3) , pp. 218-219	7
7	Read the articles; don't count them | Related documents	Habibzadeh, F., Yadollahie, M.	2009	*Archives of Iranian Medicine* 12 (3) , pp. 302-303	6
	How can developing countries succeed in biomedical	Habibzadeh, F.	2004	*Saudi medical journal* 25	6

	Country	Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	United States	6.149.455	5.738.593	114.546.415	54.226.872	20,51	1.305
2	China	2.248.278	2.226.529	9.288.789	5.014.506	6,00	353
3	United Kingdom	1.711.878	1.550.373	27.919.060	6.703.673	18,03	802
4	Japan	1.604.017	1.563.732	18.441.796	5.520.032	12,09	602
5	Germany	1.581.429	1.490.140	23.229.085	6.171.727	16,19	704
6	France	1.141.005	1.073.718	16.068.688	3.749.874	15,58	646
7	Canada	885.197	836.836	13.928.114	2.727.913	18,19	621
8	Italy	851.692	803.004	11.279.167	2.639.721	15,00	550
9	Spain	665.977	623.236	7.640.544	1.958.835	13,66	448
10	India	634.472	602.868	3.860.494	1.335.686	7,71	281
11	Australia	592.533	551.667	8.180.664	1.770.774	16,65	481
12	Russian Federation	527.442	521.993	2.811.862	837.763	5,49	308
13	South Korea	497.681	487.459	3.988.716	917.147	10,32	309
20	Turkey	267.902	253.876	1.647.043	449.410	7,92	193
26	Greece	160.760	152.000	1.589.963	289.460	11,93	247
27	Iran	159.046	154.748	657.186	269.132	8,13	121
92	Kazakhstan	4.695	4.621	18.142	2.779	4,33	46
238	Tokelau	1	1	32	0	32,00	1

SJR http://www.scimagojr.com/

Table 1 Scientometric profile of the Scopus- and Thomson Scientific-indexed rheumatology journals based on the *h*-index, total cites and JIFs

Rank based on 2-YIF	Title	The *h*-index	Total cites	2-Y IF	5-Y IF
1	*Annals of the Rheumatic Diseases*	109	22,172	9.082	7.551
2	*Arthritis and Rheumatism*	189	44,602	8.435	8.579
4	*Nature Reviews. Rheumatology*	33	468	6.448	6.466
5	*Arthritis Care and Research*	67	6,539	4.749	4.561
6	*Seminars in Arthritis and Rheumatism*	63	3,012	4.744	4.536
7	*Current Opinion in Rheumatology*	64	3,431	4.497	4.300
8	*Arthritis Research and Therapy*	68	6,728	4.357	4.798
9	*Rheumatology (Oxford)*	95	10,875	4.171	4.328
10	*Osteoarthritis and Cartilage*	80	7,138	3.953	4.495
21	*Rheumatology International*	36	2,386	1.431	1.473
22	*Journal of Clinical Rheumatology*	24	850	1.283	1.324
23	*Journal of Musculoskeletal Pain*	24	316	0.460	0.516
24	*Acta Reumatologica Portuguesa*	7	113	0.451	
25	*Zeitschrift fur Rheumatologie*	29	522	0.447	0.437
26	*Aktuelle Rheumatologie*	9	74	0.243	0.140
27	*International Journal of Rheumatic Diseases*	7	35	0.205	
29	*Turkish Journal of Rheumatology*	1	8	0.043	0.103

Data obtained from SCImago Journal and Country Rank database (the journal *h*-index values in 2011) and JCR (total cites, 2- and 5-year journal impact factors [JIF] published by Thomson Scientific in 2011)

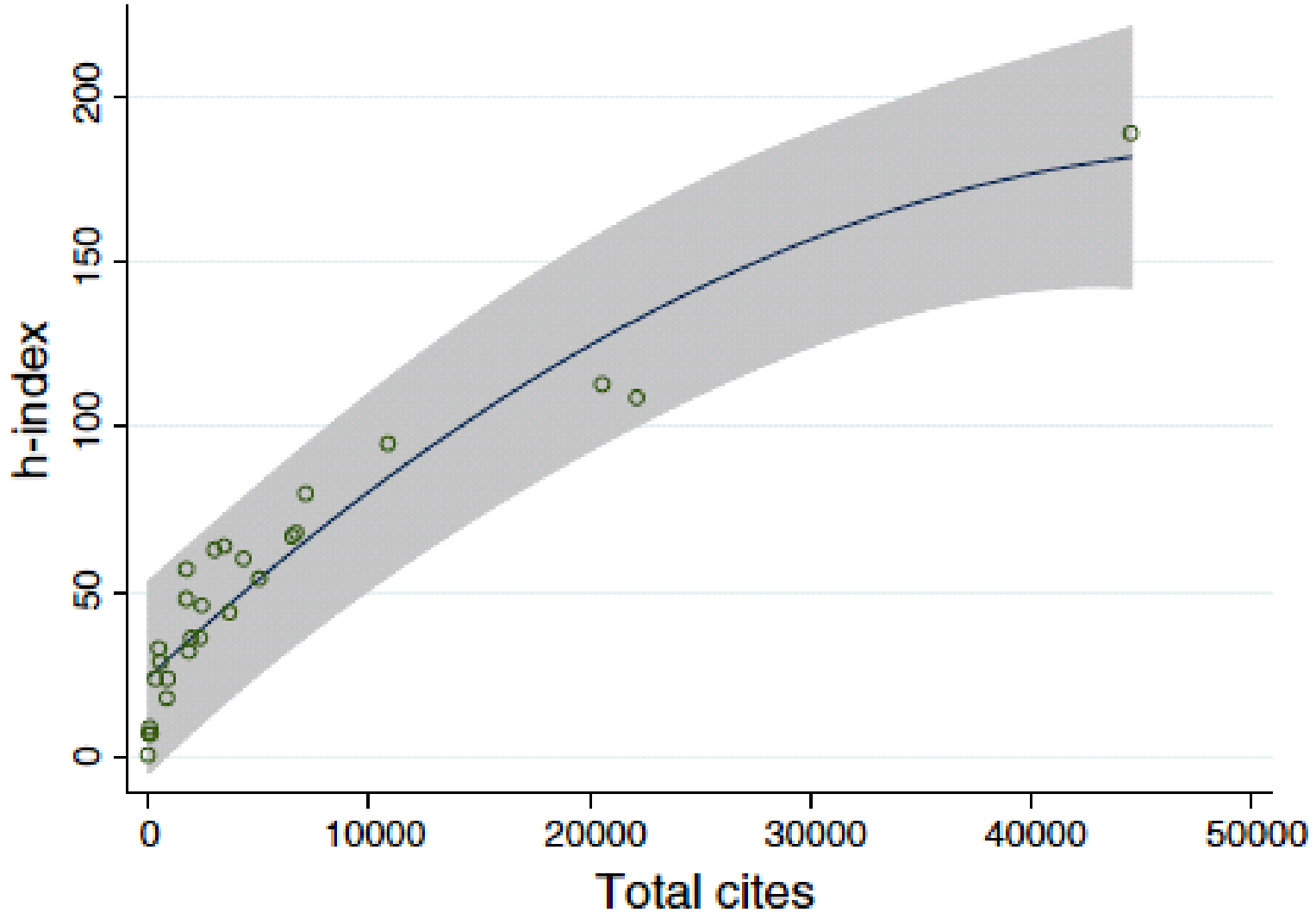


Fig. 1 Correlation between the *h*-index and total cites of the indexed rheumatology journals (Spearman rank correlation coefficient $r = 0.93$; $P < 0.05$)

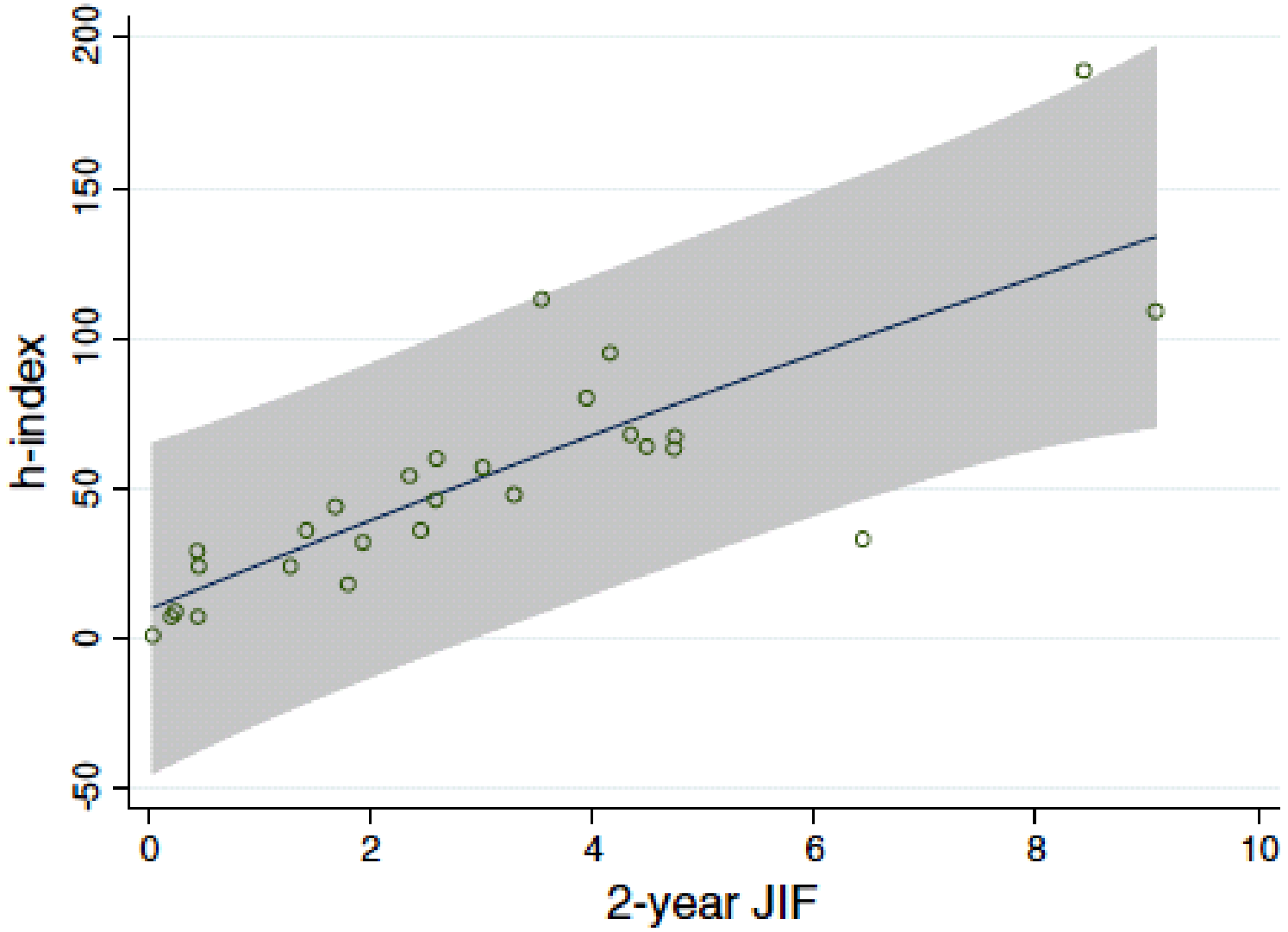


Fig. 2 Correlation between the *h*-index and 2-year JIF of the indexed rheumatology journals (Spearman rank correlation coefficient $r = 0.82$; $P < 0.05$)

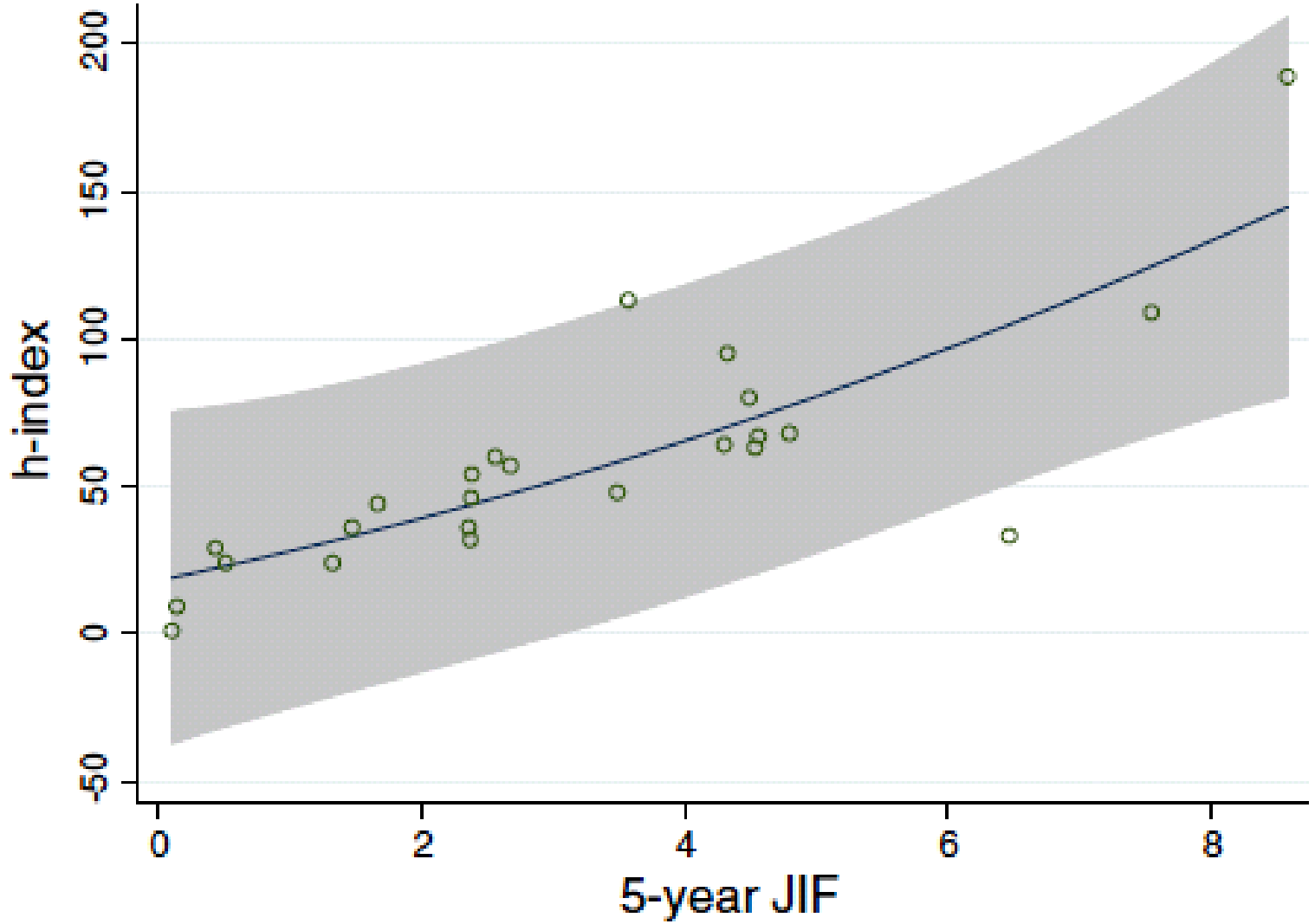


Fig. 3 Correlation between the *h*-index and 5-year JIF of the indexed rheumatology journals (Spearman rank correlation coefficient $r = 0.84$; $P < 0.05$)


BIOINFORMATION
Discovery at the interface of physical and biological sciences
ISSN 0973-2063
Journal Impact
IF* = 1.15
h-index = 10
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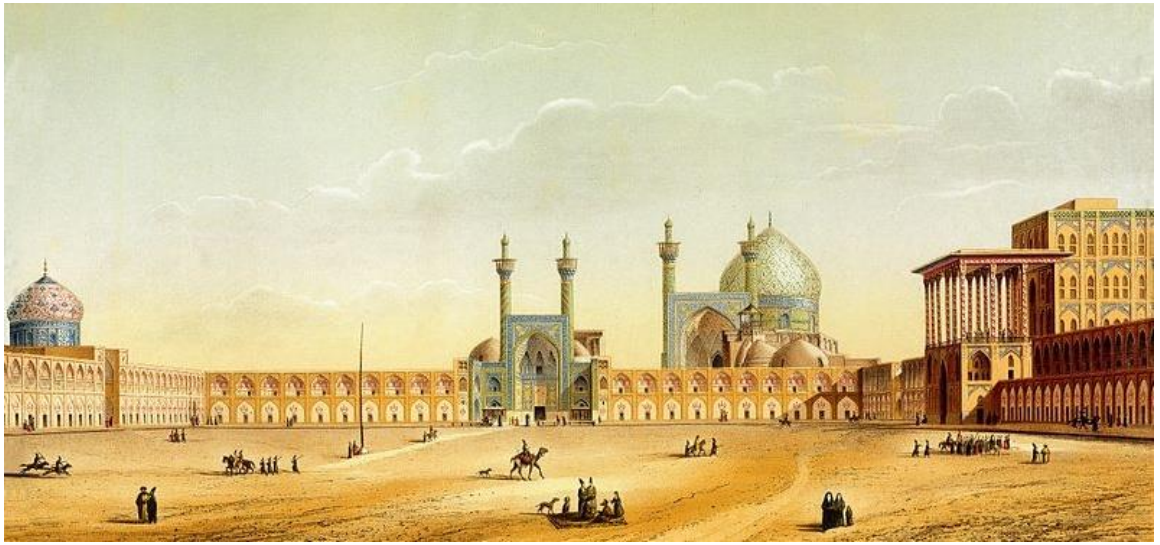
Do not compare (unmatchable)

The Palace of Versailles

Naqsh-e Jahan Square ("Exemplar of the World"): Masjed-e Shah, Imperial Bazaar and Ali Qapu Palace



Limitations of H index

- **Not proper metric for young scientists (<50 pap., H≤10), papers with many co-authors, self-citing authors**
- **Does not take into order in the authors list (1st, 2nd, … last author)**
- **Ignores most highly cited papers**
- **Suitable for comparisons within a certain specialty only**

Author ID and H index

Page | Show documents | View citation overview | Request to merge authors | Sort by: Document Count (Descending)

	Authors	Documents	Subject Area	Affiliation	City	Country
1	**Maini, Ravinder N.** MAini, R. N. Maini, R. Maini, R. N.	365 Show Last Title	Medicine ; Immunology and Microbiology ; oche eti cu er Me ci Phys c Astr n	Kennedy Institute of Rheumatology	London	United Kingdom
3	**Maini, Ravinder N.** Maini, R. N.	6 Show Last Title				

Personal

Name	Maini, Ravinder N.
Other formats	MAini, R. N. Maini, R. Maini, R. N.
Author ID	7102589764
E-mail	r.maini@ic.ac.uk
Affiliation	Kennedy Institute London United Kingdom

Research

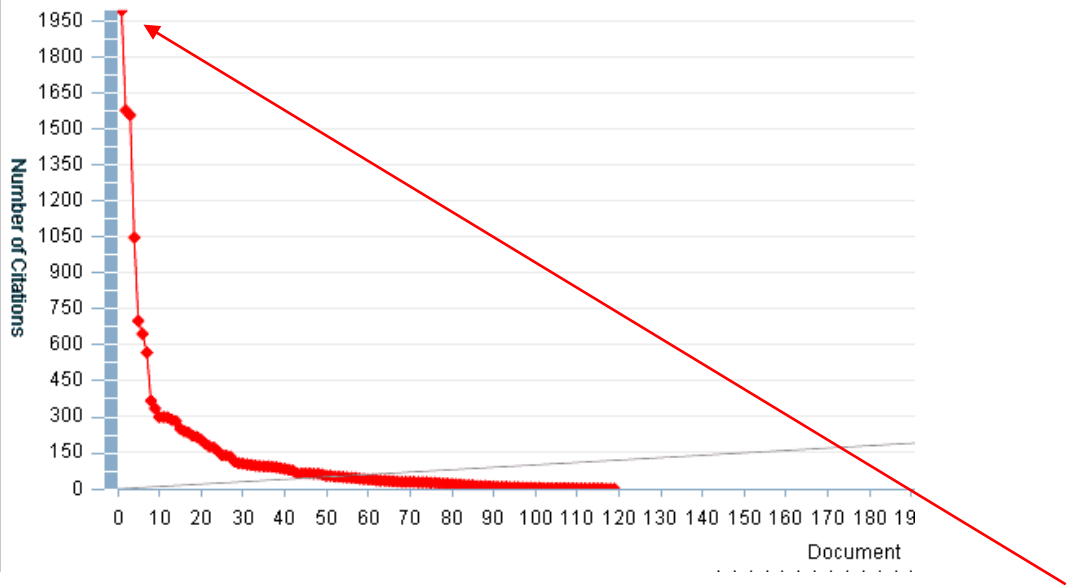
Documents	365	Autl
References	1883	
Citations	14450	View
h Index	51	View

Documents (365) | **h Index (51)** | Citations (15869)

h Graph | Document List

h Index = 51 The h Index is based upon the number of documents and number of citations.

Analyze documents published between 1996 and 2012 Exclude self-citations



1	**Infliximab and methotrexate in the treatment of rheumatoid arthritis**	Lipsky, P.E., Van Der Heijde, D.M.F.M., St. Clair, E.W., Furst, D.E., Breedveld, F.C., Kalden, J.R., Smolen, J.S., (...), Maini, R.N.	2000	*New England Journal of Medicine* 343 (22) , pp. 1594-1602	1994
	View at publisher | Show abstract | Related documents				
2	**Infliximab (chimeric anti-tumour necrosis factor α monoclonal antibody) versus placebo in rheumatoid arthritis patients receiving concomitant methotrexate: A randomised phase III trial**	Maini, R., St Clair, E.W., Breedveld, F., Furst, D., Kalden, J., Weisman, M., Smolen, J., (...), Lipsky, P.	1999	*Lancet* 354 (9194) , pp. 1932-1939	1577
	View at publisher | Full Text | Show abstract | Related documents				

Rezaieyazdi, Zahra

Personal

Name	Rezaiey
Other formats	Rezaiey Rezaiey Rezaie-Y
Author ID	121443
E-mail	rezaiey
Affiliation	Ghaem Mashad Iran

Research

Documents	33
References	585
Citations	71
h Index	6
Co-authors	81

1	Haemorrhagic symptoms VIII deficiency in north-ea View at publisher | S	2004	*Haemophilia* 10 (3) , pp. 271-275	18
2	Pycnogenol supplementat improves physical functio View at publisher |	2007	*Nutrition Research* 27 (11) , pp. 692-697	12
3	Correlation between seru View at publisher | S	2006	*Rheumatology International* 26 (11) , pp. 1036-1039	8
4	Lack of association of vit polymorphisms in patient View at publisher | S	2010	*Rheumatology International* 30 (11) , pp. 1537-1539	7
5	Tumour necrosis factor a with rheumatoid arthritis View at publisher | S	2007	*Rheumatology International* 28 (2) , pp. 189-191	7
6	Are individuals with seve density? View at publisher | S	2008	*Rheumatology International* 28 (11) , pp. 1079-1083	6
7	Combined factor V and VII haemorrhagic manifestati	2006	*Haemophilia* 12 (2) , pp. 169-171	5

Braunwald, Eugene W.

Personal

Name	Braunwald, Eugene W.
Other formats	Braunwald, Eugune BRAUNWALD, E. Braunwald, Eugene
Author ID	35375508300
E-mail	timi@bwh.harvard.edu
Affiliation	Brigham and Women's Hospital Boston United States

Research

Documents	1140 Author Evaluator
References	5818
Citations	[too many documents to calcula
h Index	105 View h-Graph
Co-authors	150 (maximum 150 co-authors can

Ridker, Paul M.

Personal

Name	Ridker, Paul M.
Other formats	Ridker, P. M. Ridker, Paul Ridker, P.
Author ID	36039269800
E-mail	pridker@partners.org
Affiliation	Harvard Medical School, Boston United States

Research

Documents	647 Author Ev
References	8754
Citations	[too many documents to
h Index	111 View h-Gra
Co-authors	150 (maximum 150 co-auth

Garfield, Eugene

Personal

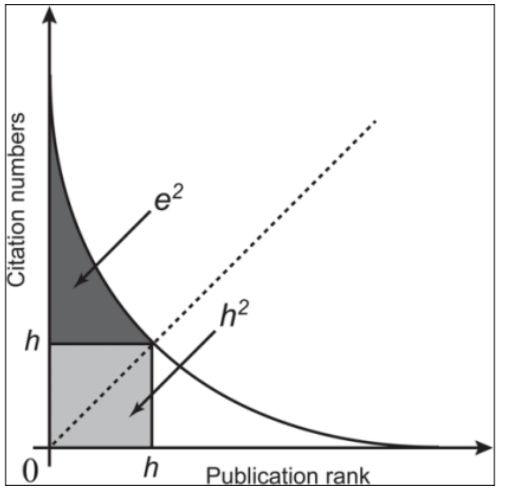
Name	Garfield, Eugene
Other formats	Garfield, E. GARFIELD, E.
Author ID	7005088140
E-mail	garfield@codex.cis.up
Affiliation	Thomson Reuters, Ins New York United States

Research

Documents	208 Author
References	643
Citations	2183 View cit
h Index	15 View h-(
Co-authors	58

e-index

- ✓ Overcome some limitations of H index
- ✓ Suitable for comparing performance in cases with similar values of H index but differing N of highly cited articles



No.	C_{total}	h	e^2	f	e	a	R
1	3568	51	967	0.37	31.10	69.96	59.73
2	5596	51	2995	1.15	54.73	109.73	74.81
3	15496	50	12996	5.20	114.00	309.92	124.48

[a]Note that C_{total} is the total citations received by all papers in the h-core, and $f=(e/h)^2$, $e=\sqrt{C_{total}-h^2}$, $a=C_{total}/h$ and $R=\sqrt{C_{total}}$.

Zhang CT. The e-index, complementing the h-index for excess citations. PLoS One. 2009;4(5):e5429.

	All	Since 2007
Citations	256851	32031
h-index	78	23
i10-index	211	60

Select: All, None Export Show: 20 **1-20** Next >

Title / Author	Cited by	Year
PROTEIN MEASUREMENT WITH THE FOLIN PHENOL REAGENT OH Lowry, NJ Rosbrough, AL Farr, R RJ The Journal of Biological Chemistry 193 (1), 265-275	228662	1951
A flexible system of enzymatic analysis OH Lowry, JV Passonneau Academic Press	3172	1972

PROTEIN MEASUREMENT WITH THE FOLIN PHENOL REAGENT*

By OLIVER H. LOWRY, NIRA J. ROSEBROUGH, A. LEWIS FARR, AND ROSE J. RANDALL

(*From the Department of Pharmacology, Washington University School of Medicine, St. Louis, Missouri*)

(Received for publication, May 28, 1951)

SJR SCImago Journal & Country Rank

- **SCImago Journal Rank (SJR) - an alternative to JIF (since 2009)**
- **Accounts for N citations and their "weight"**
- **Based on Google PageRank algorithm**
- **SJR assigns different values to citations depending on the 'importance' of the journals**
- **SJR correlates with JIF**
- **Unlike JIF, SJR values change annually**
- **Limitation - SJR gives too much weight to citations from top journals**

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39

2011 JCR Science Edition

1	INT J ENVIRON SCI TE	1072	3.051
2	HEPAT MON	417	2.190
3	J IRAN CHEM SOC	888	1.689
4	INT J ENVIRON RES	423	1.462
5	IRAN J ENVIRON HEALT	278	1.181
6	INT J PLANT PROD	138	1.100
7	IRAN J FUZZY SYST	132	1.056
8	IRAN J FISH SCI	104	0.984
9	ARCH IRAN MED	589	0.972
10	IRAN POLYM J	703	0.936
11	IRAN J KIDNEY DIS	145	0.870
12	INT J CIV ENG	90	0.695
13	IRAN J PHARM RES	313	0.637
14	DARU	275	0.625
15	UROL J	221	0.577
16	BANACH J MATH ANAL	92	0.561
17	IRAN J ARTHROPOD-BOR	40	0.526
18	IRAN J ALLERGY ASTHM	153	0.508
19	JUNDISHAPUR J MICROB	33	0.474
20	J RES MED SCI	160	0.457
21	INT J FERTIL STERIL	39	0.439
22	J AGR SCI TECH-IRAN	164	0.436
23	IRAN J PARASITOL	82	0.421
24	IRAN J PUBLIC HEALTH	322	0.378
25	IRAN J SCI TECHNOL B	113	0.375
26	IRAN RED CRESCENT ME	104	0.371
27	YAKHTEH	62	0.364
28	SCI IRAN	221	0.348
29	IRAN J BASIC MED SCI	59	0.324
30	B IRAN MATH SOC	56	0.316
31	IRAN J PEDIATR	92	0.292
32	IRAN J VET RES	105	0.281
33	IRAN J RADIAT RES	51	0.262
34	IRAN J REPROD MED	49	0.257
35	IRAN J CHEM CHEM ENG	127	0.250
36	IRAN J OPHTHALMOL	17	0.065
37	IRAN J RADIOL	14	0.053
38	IRAN J SCI TECHNOL A	41	0.029
39	CELL J	1	

2011 JCR Science Edition

Rank	Abbreviated Journal Title (linked to journal information)	ISSN	Total Cites	Impact Factor
1	INT J ENVIRON SCI TE	1735-1472	1072	3.051
2	J IRAN CHEM SOC	1735-207X	888	1.689
3	IRAN POLYM J	1026-1265	703	0.936
4	ARCH IRAN MED	1029-2977	589	0.972
5	INT J ENVIRON RES	1735-6865	423	1.462
6	HEPAT MON	1735-143X	417	2.190
7	IRAN J PUBLIC HEALTH	2251-6085	322	0.378
8	IRAN J PHARM RES	1735-0328	313	0.637
9	IRAN J ENVIRON HEALT	1735-1979	278	1.181
10	DARU	1560-8115	275	0.625

International Journal of Environmental Science and Technology

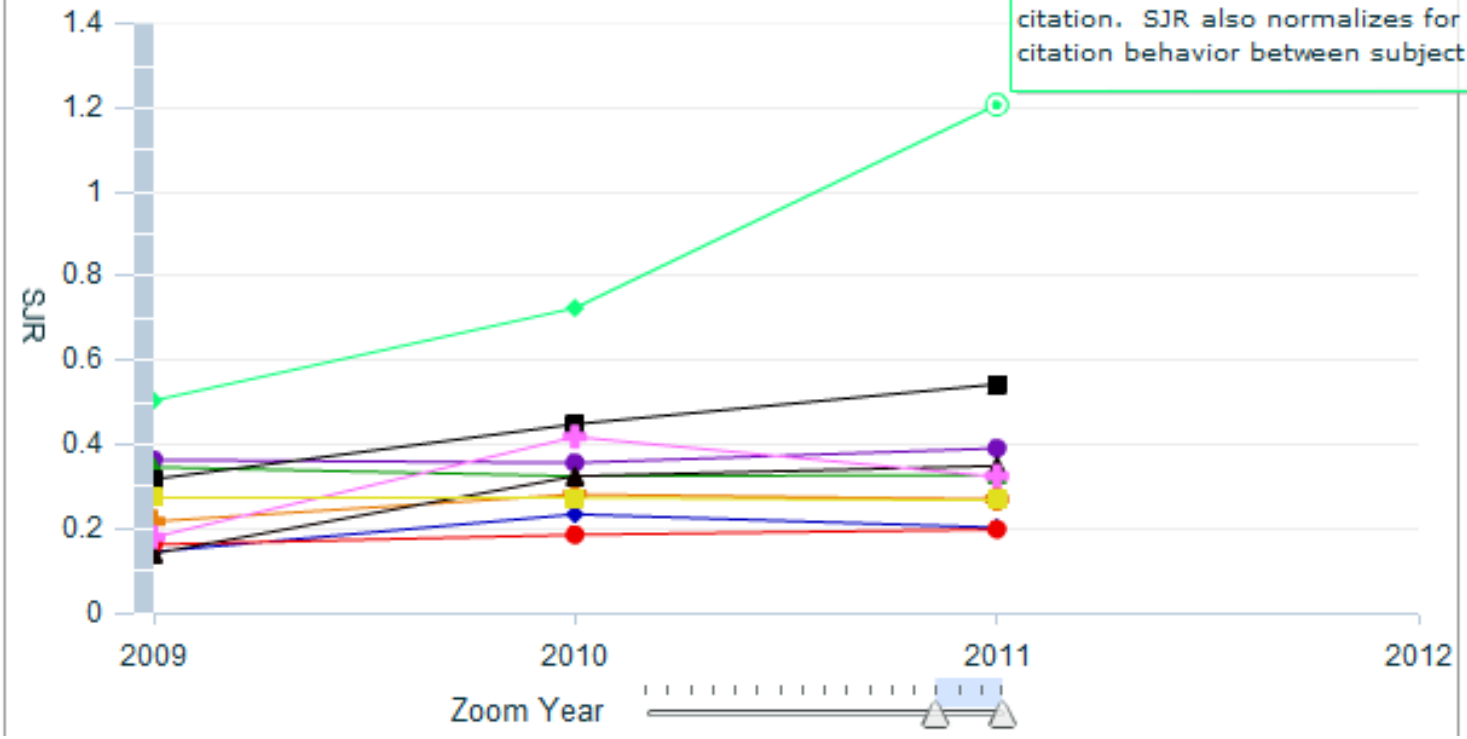
SJR (2011) = **1.207**

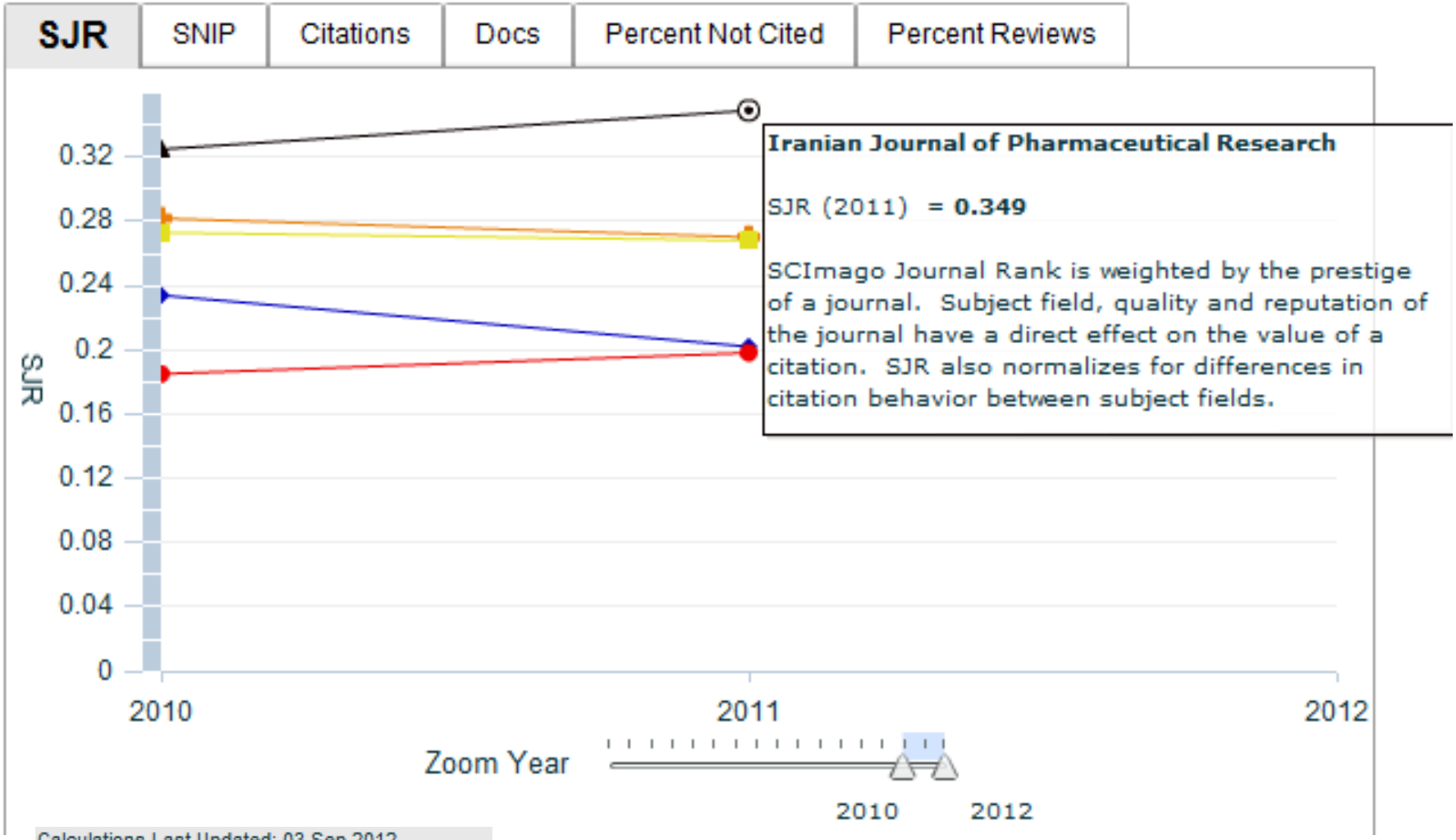
About calculations

SCImago Journal Rank is weighted by the prestige of a journal. Subject field, quality and reputation of the journal have a direct effect on the value of a citation. SJR also normalizes for differences in citation behavior between subject fields.

Show journals in: Line Chart | Table

SJR | SNIP | Citations | Docs | Percent Not Cited | Perce





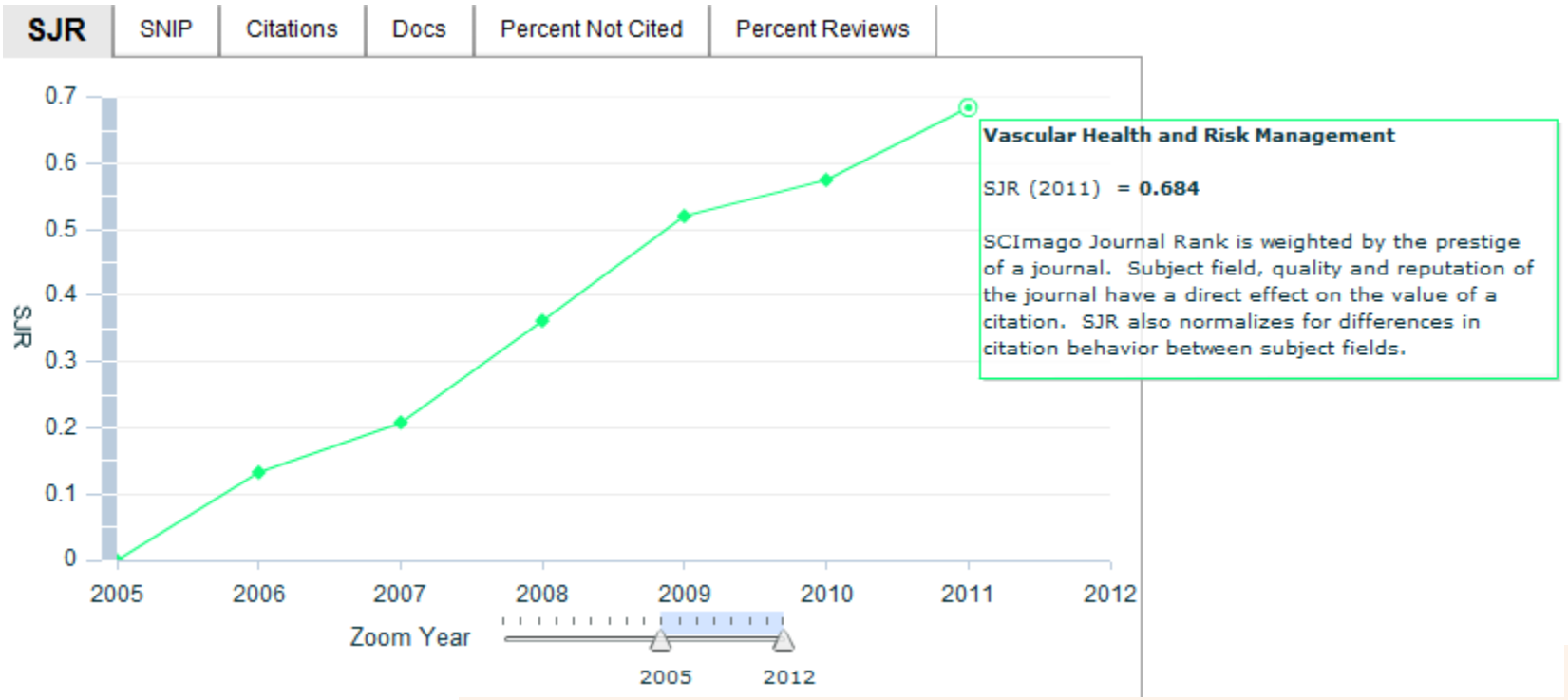
Calculations Last Updated: 03 Sep 2012

- Archives of Iranian Medicine
- Hepatitis Monthly
- Iranian Journal of Public Health
- Iranian Journal of Pharmaceutical Research
- Daru

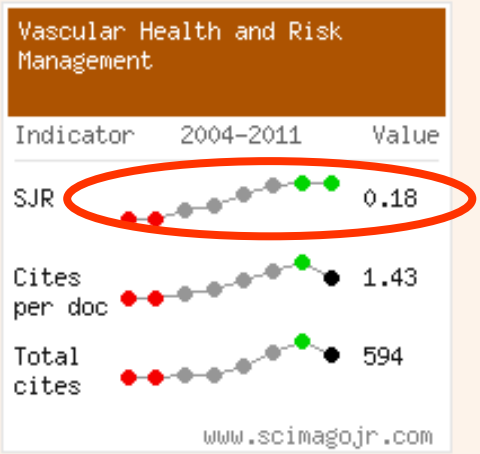
SJR is developed by:
SCIMAGO LAB

Powered by
Scopus

	Title	SJR	H index
1	Archives of Iranian Medicine	0,270	17
2	Daru	0,268	13
3	Hepatitis Monthly	0,202	10
4	Iranian Biomedical Journal	0,207	10
5	Iranian Journal of Public Health	0,198	9
6	Urology Journal	0,260	9
7	Iranian Journal of Immunology	0,279	8
8	Iranian Journal of Allergy, Asthma and Immunology	0,245	7
9	Iranian Journal of Environmental Health Science and Engineering	0,324	7
10	Iranian Journal of Kidney Diseases	0,263	7
11	Iranian Journal of Medical Sciences	0,124	7
12	Iranian Journal of Pharmaceutical Research	0,349	7
13	Acta Medica Iranica	0,137	6
14	Journal of Research in Medical Sciences	0,136	6

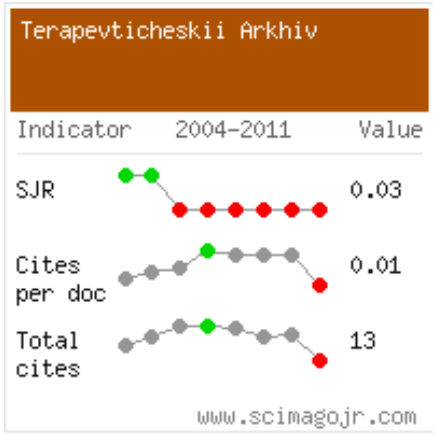


- PubMed (*Vasc Health Risk Manag*)
- MedLine
- American Chemical Society's 'Chemical Abstracts Service' (CAS)
- EMBase, EMCare, Scopus and the Elsevier Bibliographic databases
- ICAAP
- Directory of Open Access Journals (DOAJ)
- Index Copernicus
- OAIster: The Open Access Initiative
- ResearchGATE scientific network



SCOPUS

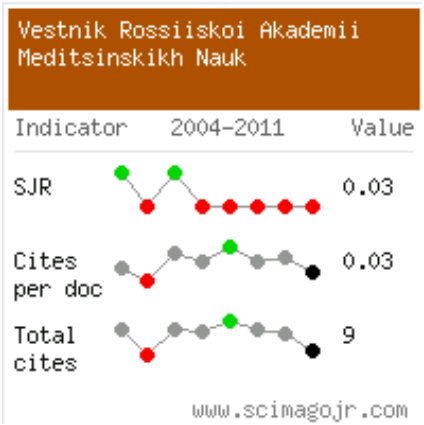
H index **8**



Year	Citations	Docs	% not cited to date	SJR
2007	198	240	80.0	0.106
2008	213	**251**	87.0	0.107
2009	211	220	85.0	0.107
2010	208	199	85.4	0.106
2011	196	196	95.4	0.103

SCOPUS

H index **10**



Year	Citations	Docs	% not cited to date	SJR
2007	116	143	85.3	0.105
2008	128	**151**	81.5	0.104
2009	131	119	92.4	0.105
2010	108	131	97.0	0.103
2011	118	124	96.0	0.107

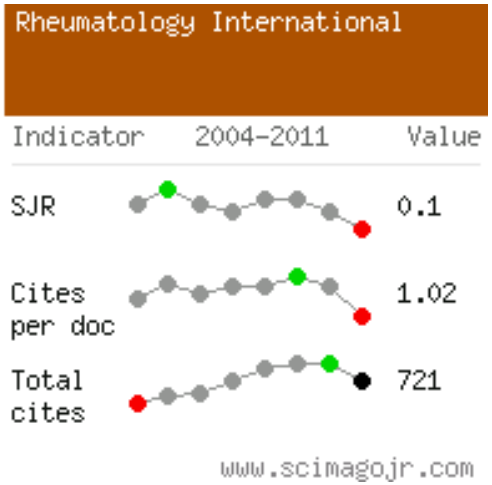
SCOPUS

H index **17**

Year	Citations	Docs	% not cited to date	SJR
2007	116	114	18.4	0.134
2008	266	**135**	20.0	0.191
2009	414	131	32.8	0.217
2010	655	122	37.7	0.282
2011	811	89	73.0	0.270

SCOPUS

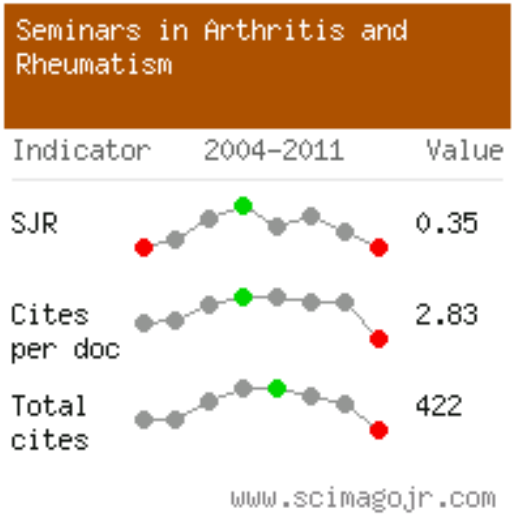
H index **40**

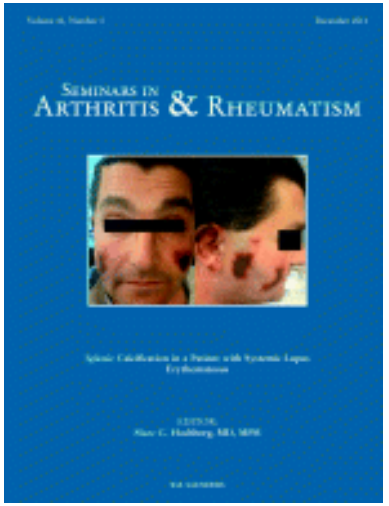


Year	Total citations	Docs	% not cited to date	SJR
2007	1,748	216	9.3	0.397
2008	2,120	249	14.1	0.475
2009	2,510	285	16.5	0.540
2010	2,726	327	32.7	0.461
2011	**3,339**	**640**	65.3	0.495

SCOPUS

H index **70**

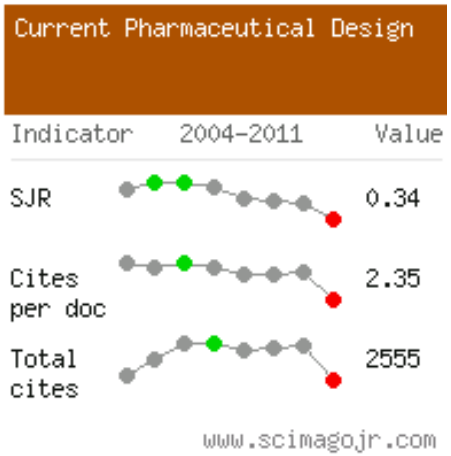


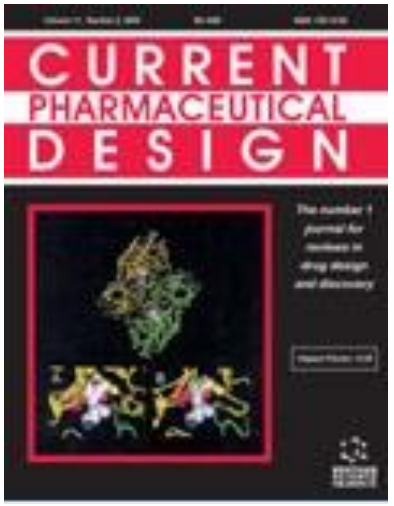


Year	Total citations	Docs	% not cited to date	SJR
2007	3.079	54	11.1	1.249
2008	3,240	55	12.7	1.224
2009	3,446	53	7.5	1.501
2010	3,514	59	11.9	1.343
2011	**3,714**	**105**	28.6	1.687

SCOPUS

H index **89**

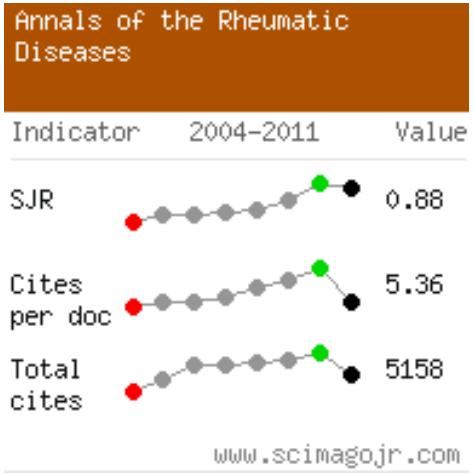


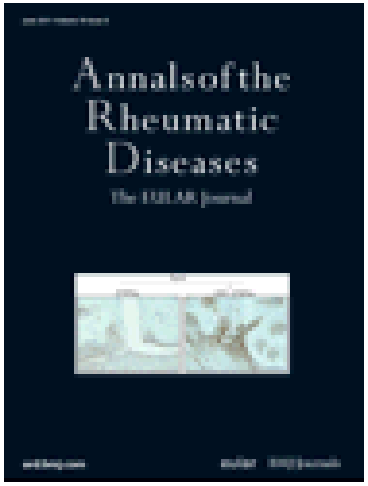


Year	Citations	Docs	% not cited to date	SJR
2007	7,856	337	8.9	1.431
2008	8,462	370	4.6	1.321
2009	9429	350	5.1	1.283
2010	10,716	409	7.8	1.319
2011	11,197	409	22.5	1.123

SCOPUS

H index **124**





Year	Total citations	Docs	% not cited to date	SJR
2007	17,390	391	4.3	1.723
2008	19,059	414	6.3	1.827
2009	21,995	397	6.5	2.620
2010	24,604	460	5.6	3.093
2011	**27,783**	**523**	23.9	3.632

BIASED CITATIONS

- ✓ **Self-citations**
- ✓ **Citations of friendly colleagues**
- ✓ **Citation of papers in mother tongue**
- ✓ **Citation of easily accessible sources**

- ☝ **Only 20% of cited papers are read by the citing authors**
- ☝ **Commonly 20% all citations have errors**

Krell F-T. Should editors influence journal impact factors? Learned Publishing, 23: 59–62 doi:10.1087/20100110

Vestnik Rossiiskoi Akademii Meditsinskikh Nauk
Issue 9, 2010, Pages 23-34

ISSN: 08696047
PubMed ID: 21089445
Document Type: Review
Source Type: Journal

View references (127)

1st Author PubMed | 1st Author SCIrUS |

Prospects for the assessment of cardiac rhythm variability in patients with rheumatoid arthritis and systemic lupus erythematosus

Novikova, D.S., Popkova, T.V., Lisitsyna, T.A., Nasonov, E.L.
Research Institute of Rheumatology, Moscow, Russian Federation

References (127) View in table layout

First 80 references displayed (View all references)

Export | Print | E-mail | Create bibliog

Select: Page

1 Russian source

2 Peters, M.J.L., Symmons, D.P.M., McCarey, D., Dijkm
I.B., (...), Nurmohamed, M.T.
EULAR evidence-based recommendations fo
patients with rheumatoid arthritis and other
(2010) *Annals of the Rheumatic Diseases*, 69 (2), pp
http://ard.bmj.com/content/69/2/325.full.pdf
doi: 10.1136/ard.2009.113696

View at publisher |

3 Meune, C., Touzé, E., Trinquart, L., Allanore, Y.
Trends in cardiovascular mortality in patient
systematic review and meta-analysis of coho
(2009) *Rheumatology (Oxford, England)*, 48 (10), pp

4 Westerweel, P.E., Luyten, R.K.M.A.C., Koomans, H.A
Premature atherosclerotic cardiovascular dis

View at publisher |

10 Cook, S., Togni, M., Schaub, M.C., Wenaweser, P., Hess, O.I
High heart rate: A cardiovascular risk factor?
(2006) *European Heart Journal*, 27 (20), pp. 2387-2393. Cite
doi: 10.1093/eurheartj/ehl259

View at publisher |

11 Kaufman, C.L., Kaiser, D.R., Steinberger, J., Dengel, D
Relationships between heart rate variability, vascul
(2007) *Clinical Autonomic Research*, 17 (3), pp. 165-171. Ci
doi: 10.1007/s10286-007-0411-6

View at publisher |

12 Russian source

13 Russian source

14 **Heart rate variability: Standards of measurement, p
clinical use**
(1996) *Circulation*, 93, p. 10431065. Cited 107 times.

15 Crawford, M.H., Bernstein, S.J., Deedwania, P.C., DiMarco, J
L.A., (...), Smith Jr., S.C.
ACC/AHA guidelines for ambulatory electrocardiogr

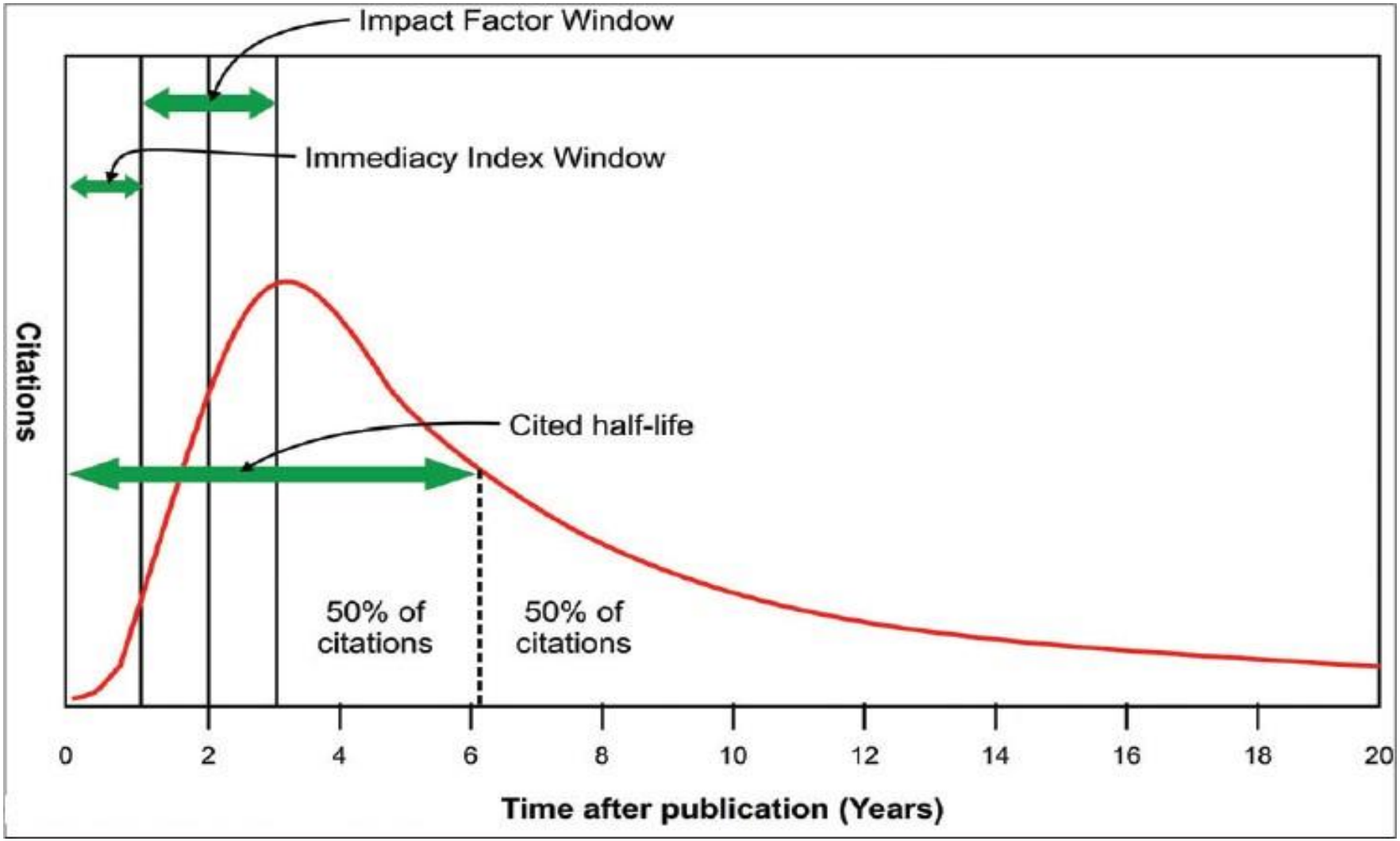
Rapid distribution of information and the impact

- **Sharing info through research networking sites**
- **Epub ahead of print format with citation based on DOI**
- **↑N of issues and switching to online only publication**
- **Launching online journals with publishing volumes instead of issues (*DovePress, BMJ Open, Springer Open*)**

The Immediacy Index

- ✓ **Citations in a given year divided by N of articles**
- ✓ **Articles published early in the year have more chances to be cited in the same year (reviews, original articles go first, case reports last)**
- ✓ **Frequently issued journals have higher values of the index**
- ✓ **Journals with delayed, infrequent publications, full of case reports are disadvantaged**

Timeframe of the Immediacy Index



Amin M, Mabe M. Impact factors use and abuse. Perspectives in publishing N1, 2000, Elsevier

Immediacy index

Journal Citation Reports®

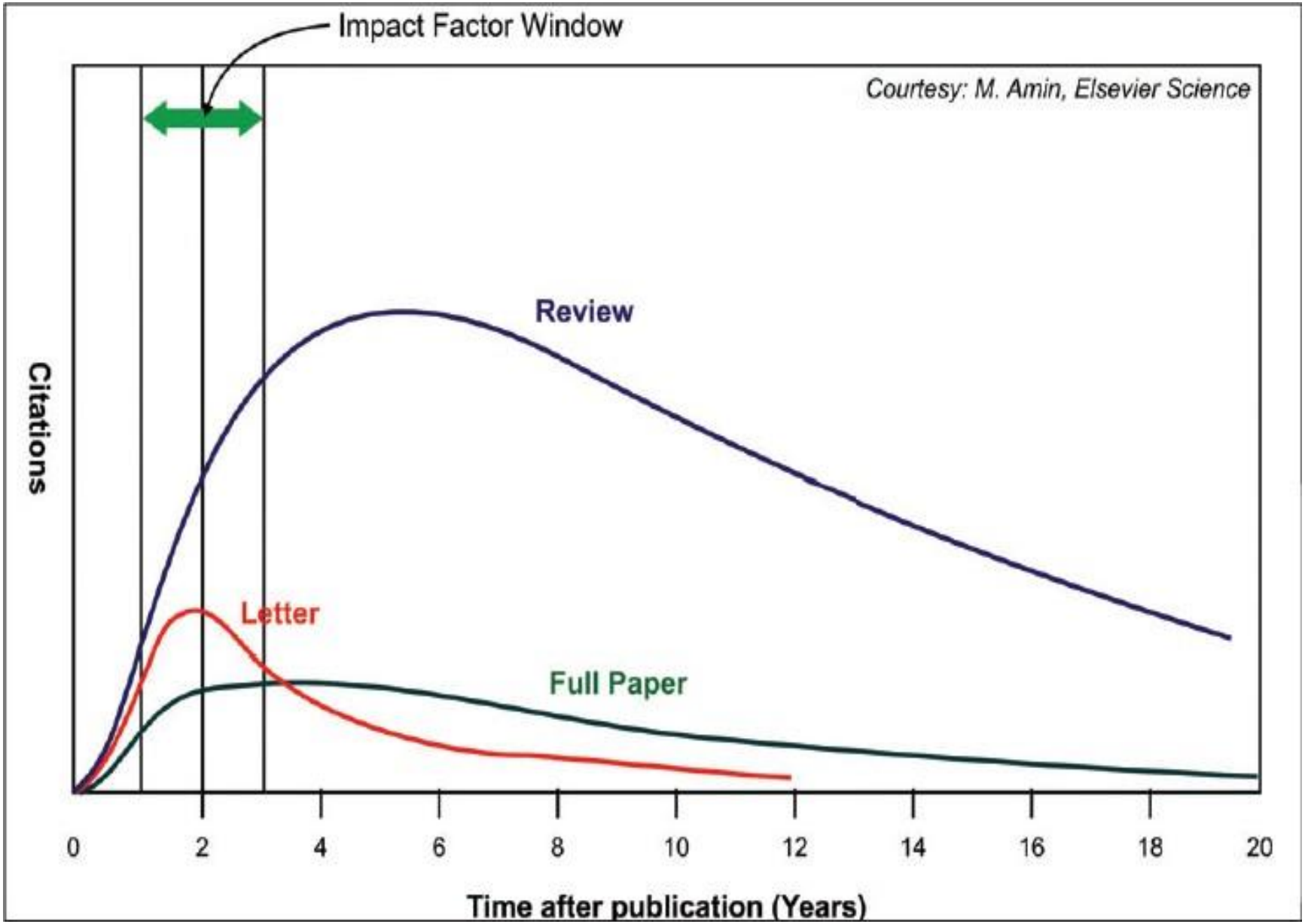
2010 JCR Science Edition

2	LANCET	0140-6736	155736	33.633	32.498	10.852	271	8.7	0.37864	12.715
3	NEW ENGL J MED	0028-4793	227679	53.486	52.363	10.675	345	7.5	0.68835	21.349
1	ANN RHEUM DIS	0003-4967	22172	9.082	7.551	2.176	386	5.3	0.06516	2.171
2	ARTHRITIS RHEUM-US	0004-3591	44602	8.435	8.579	1.419	382	7.1	0.10795	2.656
3	NAT REV RHEUMATOL	1759-4790	468	6.448	6.466	1.268	71	1.4	0.00260	2.315

Theme issues, reviews and the impact

- Goals of theme issues to outline major achievements and unresolved issues
  - to facilitate distribution of ‘processed’ information
- Theme issues rapidly promote newly launched journals
- Publishing reviews in special and regular issues is a boost for journals

Impact of Reviews

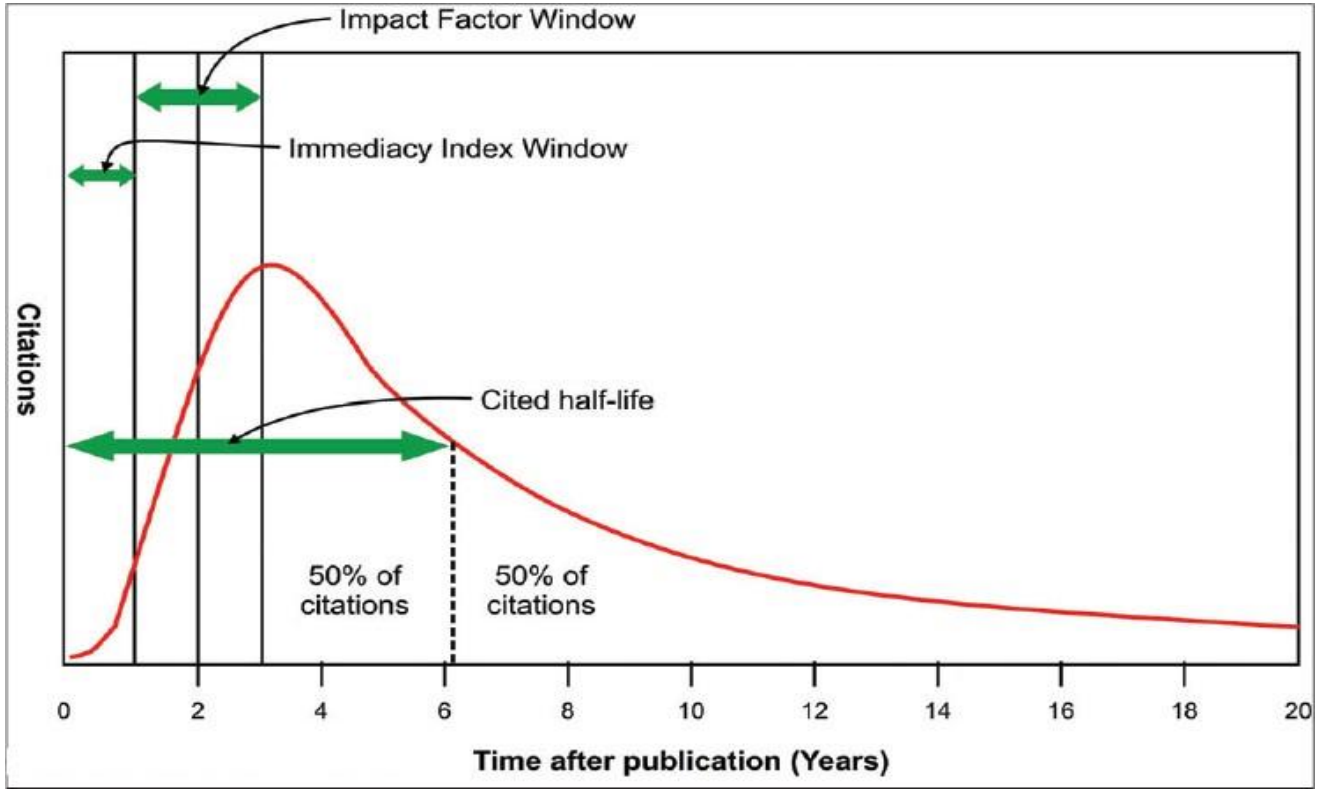


2-year JIF by JCR®

All citations to all journal items in 2010 from nearly 12,000 journals indexed by Web of Science

2010 JIF = ——————————

N of citable items in 2008-2009



Amin M, Mabe M. Impact factors use and abuse. Perspectives in publishing N1, 2000, Elsevier

Items counted as denominator of JIF

- Original papers
- Reviews
- Short communications
- Proceedings papers
- Case reports

Items not counted as denominator of JIF

- Editorials
- Commentaries
- Letters-to-the-editor
- News articles

Journal Citation Reports®

2010 JCR Science Edition

2-y JIF

1 - 20 (of 147)

[1 | 2 | 3 | 4 | 5 | 6

UPDATE MARKED LIST

Ranking is based on your journal

ırk	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR		
				Total Cites	Impact Factor	5-Year Impact Factor
☐	1	RUSS CHEM REV+	0036-021X	3037	2.346	2.827
☐	2	PHYS-USP+	1063-7869	4400	2.245	2.531
☐	3	JETP LETT+	0021-3640	6654	1.557	1.329
☐	4	BIOCHEMISTRY-MOSCOW+	0006-2979	2868	1.402	1.411
☐	5	LASER PHYS	1054-660X	1855	1.319	0.947

91	KARDIOLOGIYA	0022-9040	592	0.342
104	B EXP BIOL MED+	0007-4888	1328	0.279
138	TERAPEVT ARKH	0040-3660	394	0.098
146	RUSS J CARDIOL	1560-4071	1	0.006
147	CARDIOVASC THER PREV	1728-8800	2	0.000

Journal Citation Reports®

2010 JCR Science Edition

2-y JIF

Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data						*Eigenfactor*™ Metrics	
		Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	*Eigenfactor*™ Score	*Article Influence*™ Score
TERAPEVT ARKH	0040-3660	394	0.098	0.119	0.000	156	9.4	0.00030	0.014

Cites in 2010 to items published in: 2009 = 9
2008 = 33
Sum: 42

Number of items published in: 2009 = 205
2008 = 224
Sum: 429

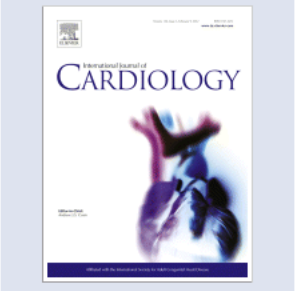
Calculation: $\frac{\text{Cites to recent items}}{\text{Number of recent items}} = \frac{42}{429} = \mathbf{0.098}$

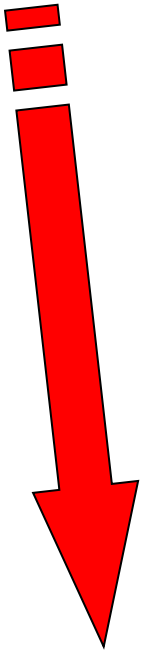
Limitations of 2-Y JIF

- **1 or a few highly cited articles inflate JIF within 2 consecutive years (particularly in small journals)**
- **Self-citations, editorials ↑↑↑ JIF**
- **Journals with high self-citations (>70%) are eliminated from JCR from 2008 onwards**

Unethical boosting of JIF

- Int J Cardiol asks all authors to cite their guidelines
- As a result, self-citations doubled
- JCR 2010 - self cites to years used to calculate 2-y JIF 2010 - 1589 (36% of 4396), for 2-y JIF 2009 - 537 (17% of 3153)
- 2-y JIF 2009 - 3.469, for 2010 - 6.802 (without self cites - 4.342)
- Half of 2581 citations in 2010 to items published in 2009 – self cites





Ethical authorship and publishing Coats, A.J.S. 2009 *International Journal of Cardiology* 131 (2) , pp. 149 -150 1835

International Journal of Cardiology 131 (2009) 149–150

From January 1, 2009 we will be requiring all papers published in the Journal to carry a statement that all authors adhere to our principles of ethical publishing and to cite and agree to the statement of ethical publishing listed below:

Editorial

Ethical authorship and publishing

Andrew J.S. Coats*

University of Sydney, NSW 2006, Australia

Received 17 November 2008; accepted 17 November 2008
Available online 28 November 2008

Principles of Ethical Publishing in the International Journal of Cardiology:

1. That the corresponding author has the approval of all other listed authors for the submission and publication of all versions of the manuscript.
2. That all people who have a right to be recognised as authors have been included on the list of authors and everyone listed as an author has made an independent material contribution to the manuscript
3. That the work submitted in the manuscript is original and has not been published elsewhere and is not presently under consideration of publication by any other journal. The oral or poster presentation of parts of the work and its publishing as a single page abstract does not count as prior publication for this purpose.
4. That the material in the manuscript has been acquired according to modern ethical standards and does not contain material copied from anyone else without their written permission
5. That all material which derives from prior work, including from the same authors, is properly attributed to the prior publication by proper citation
6. That the manuscript will be maintained on the servers of the Journal and held to be a valid publication by the Journal only as long as all statements in these principles remain true
7. That if any of the statements above ceases to be true the authors have a duty to notify the journal as soon as possible so that the manuscript can be withdrawn.

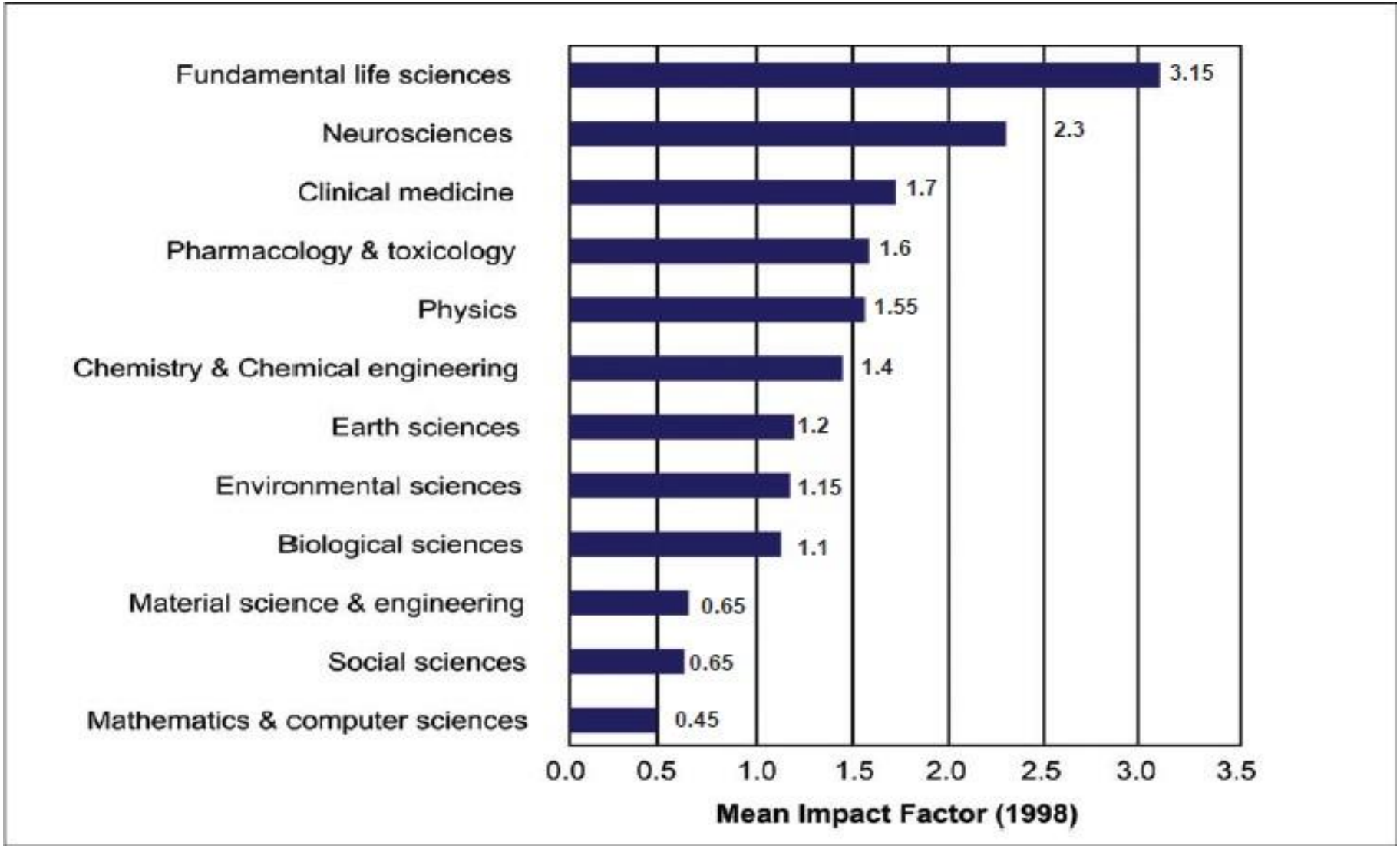
References

[1] Kastor JA. Welcome to the Journal of the American College of Cardiology. Int J Cardiol 1983;2:407–8.
[2] Coats AJS. 25 years at the International Journal of Cardiology — what has changed and what hasn't. Int J Cardiol November 29 2006: e61–2 pmid:17137651.

Limitations of 2-Y JIF

- **Denominator does not include news items and editorials (advantage for *Lancet*, *BMJ*, *JACC*)**
- **Limited N of journals are in Web of Science (especially in highly specialized fields)**
- **Most non-English medical journals are not covered**
- **Reflects the impact over short period of time (2 years)**
- **N of citations, N of highly-cited papers are ignored**

Specialty and the 2-y JIF



Amin M, Mabe M. Impact factors use and abuse. Perspectives in publishing N1, 2000, Elsevier

eigenFACTOR.org™
RANKING AND MAPPING SCIENTIFIC KNOWLEDGE

- **Citations from highly-cited journals weigh more**
- **Calculated using a similar to the Google's PageRank algorithm**
- **An advantage over JIF – EF is not an average estimation of the impact**
- **Article Influence Scores = Eigenfactor scores divided by citable items and normalized against the mean Article Influence score of 1.00**
- **Both metrics are based on a 5-year frame and do not take into account self-citations**

Eigenfactor

Journal Citation Reports®

2010 JCR Science Edition

10	NEW ENGL J MED	0028-4793	227679	53.486	52.363	10.675	345	7.5	0.68835	21.349
18	LANCET	0140-6736	155736	33.633	32.498	10.852	271	8.7	0.37864	12.715

1	ARTHRITIS RHEUM-US	0004-3591	44602	8.435	8.579	1.419	382	7.1	0.10795	2.656
2	ANN RHEUM DIS	0003-4967	22172	9.082	7.551	2.176	386	5.3	0.06516	2.171
3	J RHEUMATOL	0315-162X	20578	3.551	3.573	0.782	321	8.9	0.03729	1.043

Arthritis and Rheumatism

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Rank	1	1	1/21/Q1	1/22/Q1	1/22/Q1	1/23/Q1	1/21/Q1	2/22/Q1		2/29/Q1
2-y JIF	7.389	7.379	7.190	7.414	7.421	7.751	7.677	6.787	7.332	8.435
5-JIF							7.417	7.423	8.136	8.579
Total cites	23,973	26,215	28,886	32,827	36,352	38,124	40,724	44,251	41,156	44,602
Self cites	2,039 (8%)	2,338 (8%)	3,487 (12%)	4,011 (12%)	3,225 (8%)	3,773 (9%)	4,203 (10%)	4,169 (9%)	1036 (2%)	2410 (5%)
ImmedInd	0.705	1.090	1.012	1.040	1.386	1.204	1.035	1.016	1.123	1.419
Citable items	346	478	513	597	505	559	626	640	400	382
Reviews	13	29	30	26	16	20	20	25	6	9

Rheumatol int

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Rank	13	14	14/21/Q3	14/23/Q3	14/22/Q3	17/23/Q3	18/21/Q4	19-22/Q4	19/26/Q3	21/29/Q3
2-y JIF	0.893	1.000	1.013	1.038	1.477	1.070	1.270	1.327	1.493	1.431
5-JIF							1.417	1.551	1.512	1.473
Total cites	561	701	745	783	1,006	1,080	1,444	1,831	2,154	2,386
Self cites	14 (2%)	29 (4%)	23 (3%)	21 (2%)	62 (6%)	65 (6%)	84 (5%)	117 (6%)	119 (5%)	94 (3%)
ImmedInd	0.028	0.105	0.143	0.139	0.135	0.199	0.198	0.238	0.198	0.337
Citable items	71	86	70	79	163	211	187	227	262	243
Reviews	2	0	2	3	7	12	7	9	21	14

Cited Half-Life

- **Years («age») required to reach 50% of the total citations a journal**
- **The period for which articles in a journal continue to attract citations (how long articles are used and continue impacting science (“ageing”)**

Faculty 1000

- Since 2002 with 1000 experts (now 10,000)
- Does not based on citation metrics
- Post-publication evaluation by peers in biology, medicine etc.
- Rankings: “Recommended”, “Must read”, “Exceptional”
- ~100,000 evaluations of papers from ~3000 journals
- F1000 Biology Reports and F1000 Medicine Reports open journals include comments on recent publications

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US National Library of Medicine
National Institutes of Health

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FREE full text article
in PubMed Central
EVALUATED BY
F1000 MEDICINE

BMJ. 2010 May 20;340:c2197. doi: 10.1136/bmj.c2197.

Unintended effects of statins in men and women in England and Wales: population based cohort study using the QResearch database.

Hippisley-Cox J, Coupland C.

Division of Primary Care, University Park, Nottingham NG2 7RD. julia.hippisley-cox@ntlworld.com

Abstract

OBJECTIVE: To quantify the unintended effects of statins according to type, dose, and duration of use.

DESIGN: Prospective open cohort study using routinely collected data.

Related citations

Individualising th ks of statins and women in nd and [Hea

Final Report arcinogens Ba Docum [Rep inog Backgr D

Final Repor Carcinogens Ba

F1000 FACULTY of 1000
POST-PUBLICATION PEER REVIEW

Evaluated Articles | Rankings | Reports | Faculty | Naturally Selected

How editors increase the impact

- ✓ **Soliciting papers of relevance to the scope**
- ✓ **Analyzing submissions, writing editorials**
- ✓ **Actively looking for, inviting and providing incentives for reviewers**

It is the duty of a responsible editor to increase not only the quality of his/her journal, but also raise the awareness of and the interest in the journal. It would be unfair to authors and disloyal to publishers if an editor did not act in this direction.

Krell F-T. Learned Publishing, 23: 59–62 doi:10.1087/20100110

How reviewers increase the impact

- **Timely responding to invitations and commenting (the shorter the peer review the faster distribution of information and higher the *immediacy index*)**
- **Reviewers comment on novelty and scientific merits, influence the decision-making, and reduce burden of redundant and 'non-citable' publications (reviewers are gatekeepers)**

Conclusions

- **There are traditional and alternative impact factors. Journals' rank should be evaluated based on both**
- **Authors submitting articles to journal should have knowledge on impact factors**


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