

Unveiling the mystery behind academic publishing: ranking and its insights



Presenter

[Dr. Mohamed Uvaze Ahamed](#)

Department of Computer Science

Cihan University - Erbil



SCImago
Journal & Country
Rank

Contents



○ Journal Impact Factors:

- *Why?*
- *Where?*
- *What?*
- Other Journal Ranking Factors

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*http://www.scienceclub.listbb.ru/knowledge/kb_show.php?id=48

**<http://portal3.ipb.pt/index.php/en/bibliotecas/the-documentation-services-and-libraries>



Journal Impact Factors: *Why?* Where? What?



Why?

- Evaluate the scholarly worth of a journal
- Rank journals within a discipline
- Help you decide where to publish your article for maximum impact
- Evaluation for promotion / tenure / grants, or in some countries, even government funding of an institution



Journal Impact Factors: Why? *Where?* What?



Where do we find Impact Factors?

Impact factors are listed in *Journal Citation Reports JCR*)

The screenshot shows the Thomson Reuters Web of Science interface. The top navigation bar includes links for 'Web of Science™', 'InCites™', 'Journal Citation Reports®', 'Essential Science Indicators™', and 'EndNote®'. The 'Journal Citation Reports®' link is highlighted with a blue circle. Below the navigation bar is a search section with a search bar containing the example text 'Example: oil spill* mediterranean', a 'Topic' dropdown menu, and a 'Search' button. Below the search bar are 'TIMESPAN' options: 'All years' (selected), 'From 1980 to 2015', and a 'MORE SETTINGS' link.



Journal Impact Factors: Why? *Where?* What?

admin-apps.webofknowledge.com

Web of Science [v.5.16.1] - All Databases Home

JCR-Web 4.5 Welcome

ISI Web of KnowledgeSM

Journal Citation Reports[®]


[Information for New Users](#)

Select a JCR edition and year:	Select an option:
<input checked="" type="radio"/> JCR Science Edition 2013	<input checked="" type="radio"/> View a group of journals by Subject Category
<input type="radio"/> JCR Social Sciences Edition 2013	<input type="radio"/> Search for a specific journal
	<input type="radio"/> View all journals
<input type="button" value="SUBMIT"/>	

This product is best viewed in 800x600 or higher resolution

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Journal Impact Factors: Why? *Where?* What?

Web of Science [v.5.16.1] - All Databases Home | JCR-Web 4.5 Journal Summary List

ISI Web of KnowledgeSM

Journal Citation Reports[®]

WELCOME | HELP

2013 JCR Science Edition

Journal Title Changes

Journal Summary List

Journals from: All Journals

Sorted by: Journal Title [v] SORT AGAIN

Journals 1 - 20 (of 8539)

MARK ALL | UPDATE MARKED LIST

Page 1 of 427

Ranking is based on your journal and sort selections.

Mark	Rank	Abbreviated Journal Title (linked to journal information)	ISSN	JCR Data ⁱ						Eigenfactor [®] Metrics ⁱ	
				Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor [®] Score	Article Influence [®] Score
<input type="checkbox"/>	1	4OR-Q J OPER RES	1619-4500	364	0.918	1.181	0.294	17	6.2	0.00189	0.823
<input type="checkbox"/>	2	AAOHN J	0891-0162	399	0.608	0.623		0	7.9	0.00060	0.164
<input type="checkbox"/>	3	AAPG BULL	0149-1423	7282	1.832	2.235	0.590	83	>10.0	0.00489	0.791
<input type="checkbox"/>	4	AAPS J	1550-7416	3075	3.905	4.970	0.678	118	4.9	0.00798	1.327
<input type="checkbox"/>	5	AAPS PHARMSCITECH	1530-9932	3291	1.776	2.213	0.186	145	5.3	0.00671	0.467
<input type="checkbox"/>	6	AATCC REV	1532-8813	215	0.254	0.321	0.034	29	8.9	0.00020	0.065
<input type="checkbox"/>	7	ABDOM IMAGING	0942-8925	2414	1.730	1.748	0.426	148	6.9	0.00462	0.489
<input type="checkbox"/>	8	ABH MATH SEM HAMBURG	0025-5858	392	0.222	0.386	0.077	13	>10.0	0.00074	0.638
<input type="checkbox"/>	9	ABSTR APPL ANAL	1085-3375	2479	1.274	1.288	0.298	1338	1.8	0.00696	0.300
<input type="checkbox"/>	10	ACAD EMERG MED	1069-6563	6284	2.198	2.481	0.420	174	7.3	0.01529	0.908
<input type="checkbox"/>	11	ACAD MED	1040-2446	9372	3.468	3.654	1.059	238	7.4	0.02252	1.347



Web of Science®

Thomson Reuters (formerly ISI) has one, huge database, Web of Science, that...

- **Indexes selected journals**
 - > 8,000 science; > 3,000 social science journals;
 - > 1,800 Arts & Humanities
- **Activity: Search for an article in your field that has been highly cited.**





Journal Impact Factors: Why? Where? *What?*

- What is the Journal Impact Factor?
- How is it calculated?

E.g.,

Calculating the 2009 Journal Impact factor for the journal *Cell*

$$\frac{\text{Number of times articles or other items published in } \textit{Cell} \text{ during} \\ \text{2007 2008 were cited in indexed journals during 2009}}{\text{Number of "citable" articles published in } \textit{Cell} \text{ in 2007 \& 2008}}$$



*Only references in articles within the ~13,000 journals indexed in *Web of Science* are counted; does not include citations that may cite the articles in *Cell* from book chapters, proceedings, or other journals that are not indexed in *Web of Science*

** Citable articles are just research articles and reviews – not news articles, commentary, etc.



Journal Impact Factors:

Why? Where? *What?*

Number of times articles or other items published in *Cell* during
2007 2008 were cited in indexed journals during 2009

Number of “citable” articles published in *Cell* in 2007 & 2008

That is:

$$\text{Cites in 2009 to items published in 2008 + 2007} = 9533 + \boxed{12554} = \boxed{22087}$$

$$\text{Number of items published in } \textit{Cell} \text{ in 2008 + 2007} = 343 + \boxed{366} = \boxed{709}$$

$$\text{Impact Factor} = \frac{22087}{709} = \boxed{31.152}$$

- **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
- *Limitation - SJR gives too much weight to citations from top journals*

SCImago Journal Rank (SJR)

- The citation PageRank of a journal calculated on the basis of the *Scopus* citation data divided by the number of articles published by the journal over 3 years.
- Similar to Eigenfactor methods, but based on citations in *Scopus* instead of *Web of Science*.
 - Freely available at scimagojr.com
 - Covers more journals (~20,000) than JCR because *Scopus* covers more journals than *Web of Science*
 - More international diversity
 - 3 years of citations; no self-citations

SCImago Journal Rank (SJR)

also developed by scimago: SCIMAGO INSTITUTIONS RANKINGS

SJR Scimago Journal & Country Rank

Home Journal Rankings Country Rankings Viz Tools Help About Us

All subject areas All subject categories All regions / countries All types 2018

Only Open Access Journals Only SciELO Journals Only WoS Journals [?] Display journals with at least 0 Citable Docs. (3years)

1 - 50 of 31971 < >

Title	Type	↓ SJR	H index	Total Docs. (2018)	Total Docs. (3years)	Total Refs. (2018)	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc. (2018)	
1 CA - A Cancer Journal for Clinicians	journal	72.576 	144	45	127	3078	20088	103	206.85	68.40	
2 MMWR. Recommendations and reports : Morbidity and mortality weekly report. Recommendations and reports / Centers for Disease Control	journal	48.894 	134	3	12	559	1043	12	86.00	186.33	
3 Nature Reviews Materials	journal	34.171 	61	99	195	8124	7297	104	70.16	82.06	
4 Quarterly Journal of Economics	journal	30.490 	228	40	124	2498	1495	120	12.81	62.45	

SCImago Journal Rank (SJR)



All subject areas

All subject categories

All regions

1996-2018

Display countries with at least

Documents

	Country	↓ Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	United States	12070144	10701848	297655815	134368758	24.66	2222
2	China	5901404	5785424	48833849	27480980	8.27	794
3	United Kingdom	3449243	2935537	77355297	17558272	22.43	1373
4	Germany	3019959	2787096	61262766	14946684	20.29	1203
5	Japan	2750108	2630141	42767077	11167050	15.55	967
6	France	2120161	1969558	42219660	8847163	19.91	1094
7	Canada	1744508	1569064	39431612	6894236	22.60	1102
8	Italy	1744314	1587823	32252528	7441940	18.49	953
9	India	1670099	1551015	15035059	5135044	9.00	570

SCImago Journal Search

SJR Scimago Journal & Country Rank

Home Journal Rankings Country Rankings Viz Tools Help About Us

Eurasip Journal on Image and Video Processing

33
H Index

Country [Switzerland](#) - [SJR Ranking of Switzerland](#)

Subject Area and Category
[Computer Science](#)
[Information Systems](#)
[Signal Processing](#)

[Engineering](#)
[Electrical and Electronic Engineering](#)

Publisher [Springer International Publishing AG](#)

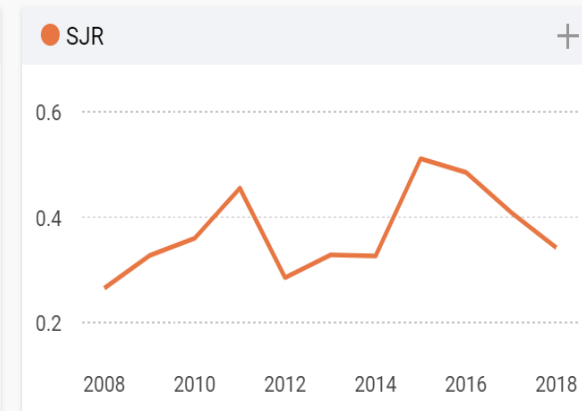
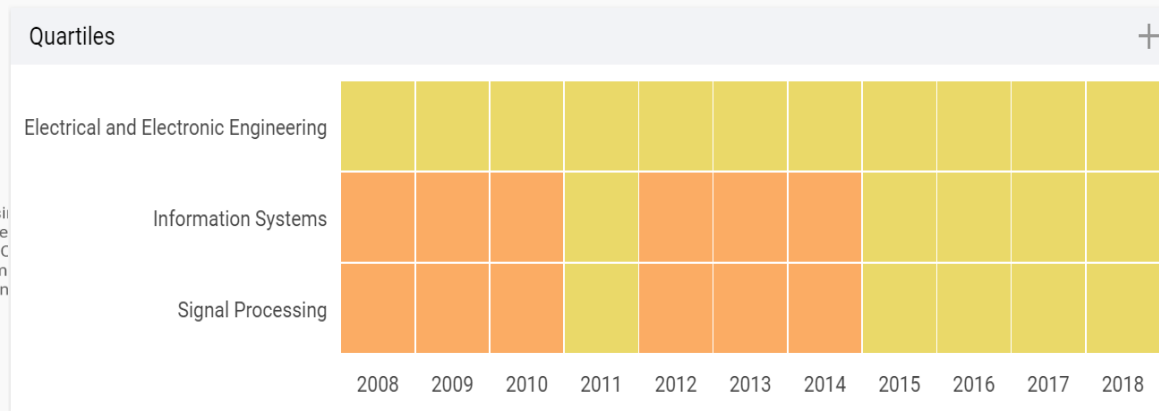
Publication type Journals

ISSN 16875281, 16875176

Coverage 2007-ongoing

Scope EURASIP Journal on Image and Video Processing covers the multidisciplinary field of image and video processing, from basic research to development of application. Current topics include: wavelets, mathematical morphology, Markov models, image protection, recognition, restoration and segmentation.

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Research articles and non-research articles (e.g. Opinion, Review and Commentary articles) must cite appropriate and relevant literature in support of the claims made. Excessive and inappropriate self-citation or coordinated efforts among several authors to collectively self-cite is strongly discouraged.

Authors should consider the following guidelines when preparing their manuscript

- Any statement in the manuscript that relies on external sources of information (ie not the authors own new ideas or findings or general knowledge) should use a citation.
- Authors should avoid citing derivations of original work. For example, they should cite the original work rather than a review article that cites an original work.
- Authors should ensure that their citations are accurate (ie they should ensure the citation supports the statement made in their manuscript and should not misrepresent another work by citing it if it does not support the point the authors wish to make).
- Authors should not cite sources that they have not read.
- Authors should not preferentially cite their own or their friends', peers' or institution's publications.
- Authors should avoid citing work solely from one country.
- Authors should not use an excessive number of citations to support one point.
- Ideally, authors should cite sources that have undergone peer review where possible.
- Authors should not cite advertisements or advertorial material.

BIASED CITATIONS

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

👉 **Only 20% of cited papers are read by the citing authors**

👉 **20% of all citations have errors**

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

Bogus impact factor companies

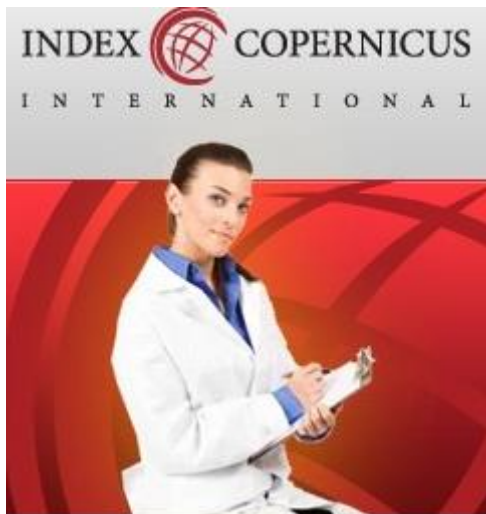


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JOURNAL IMPACT FACTOR (JIF)

GIF
GLOBAL IMPACT FACTOR

Universal Impact Factor

Scientifically derived Journal Impact Factor



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Create ID



RESEARCHER ID



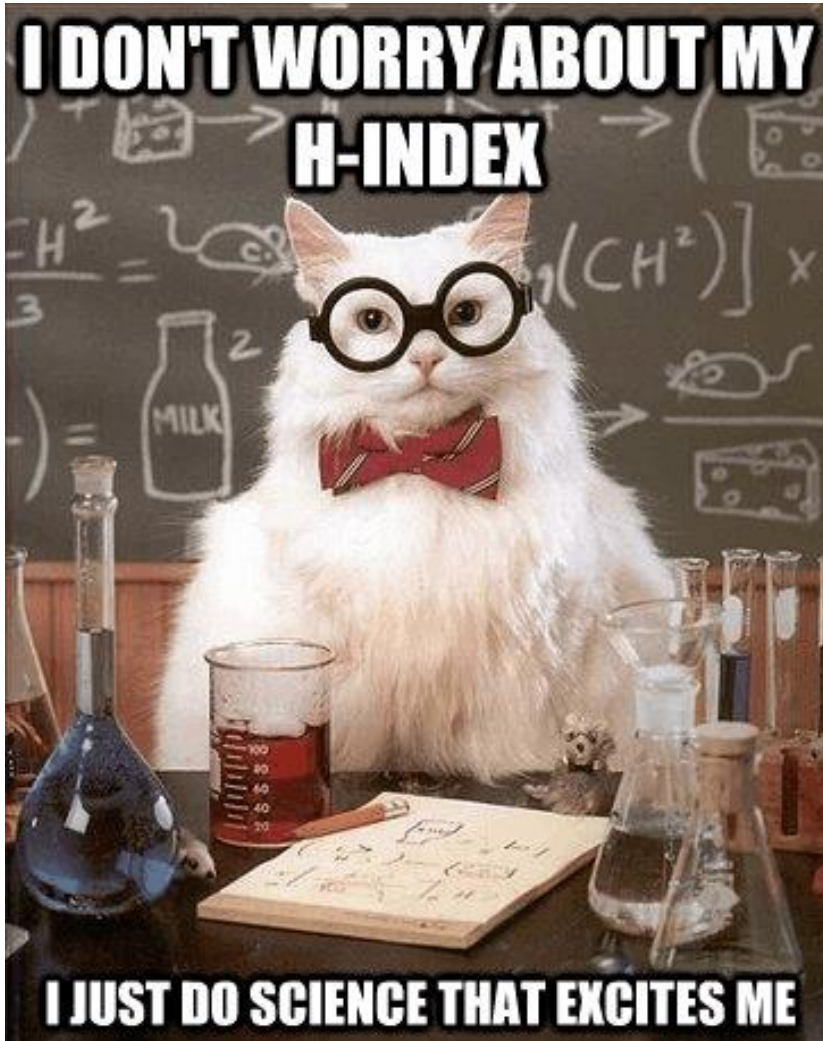
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ORCID

Connecting Research
and Researchers

Thanks for attention!



Q&A

mohamed.uvaze@cihanuniversity
.edu.iq