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IF, Metrics

	ation · May 2022	
DOI: 10.1314	40/RG.2.2.36754.32961	
CITATIONS		PEADS
0	1	167
1 author	r:	
	Sourav Mahato	
	Mahatma Gandhi Central University	
	15 PUBLICATIONS 3 CITATIONS	
	SEE PROFILE	

Some of the authors of this publication are also working on these related projects:



Impact Factor of journal as per JCR, SNIP, SJR, IPP, Cite Score Metrics: h-index, g index, i10 index, altmetrics

Paper – EDUC6003 (CC -III)

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OUTLINES

- Impact factor as per JCR
- o IPP
- SNIP
- SJR
- Cite Score
- h-index
- o g index
- o i10 index
- Altmetrics

Journal level

Individual level

JCR

IPP

SNIP

SJR

Cite Score

h-index

g index

i10 index

altmetrics

IMPACT FACTOR OF JOURNAL AS PER JCR

Journal Impact Factor / Impact factor:

Its score.

It measures the average impact of original research articles and review articles appearing in the same journal.

JCR (Journal Citation Report):

JCR is an annual publication by Clarivate Analytics. It is integrated with Web of Science. It provides information about journals including impact factors.

CONT....

Formula to calculate:

$$\text{IF}_y = \frac{\text{Citations}_y}{\text{Publications}_{y-1} + \text{Publications}_{y-2}}$$

For example, *Nature* had an impact factor of 41.577 in 2017:

$$ext{IF}_{2017} = rac{ ext{Citations}_{2017}}{ ext{Publications}_{2016} + ext{Publications}_{2015}} = rac{74090}{880 + 902} = 41.577$$

IPP (IMPACT PER PAPER)

The IPP measures the ratio of citations in a year to scholarly papers published in the <u>three</u> <u>previous years</u> divided by the number of scholarly papers published in those same years.

SNIP (SOURCE NORMALIZED IMPACT PER PAPER)

SNIP is a sophisticated metric that intrinsically accounts for field-specific differences in citation practices.

it is defined as the ratio of a journal's citation count per paper and the citation potential in its subject field.

Past three years are considered to compute.

CONT....

i. Journal's citation count per paper = IPP or RIP

ii. Citation potential in its per paper

(SJR) SCImago Journal Rank

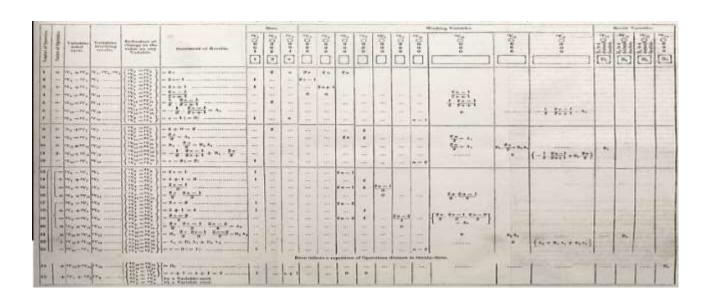
SJR is a numeric value indicating the average number of weighted citations received during a selected year per document published in that journal during the previous three years.

SJR indicator is a measure of the scientific influence of scholarly journals that accounts for both the number of citations received by a journal and <u>the importance or prestige of the journals where the citations come from</u>.

CONT....

Computation:

The SJR indicator computation is carried out using an <u>iterative algorithm</u> that distributes prestige values among the journals until a steady-state solution is reached.



CITE SCORE

Calculating the Cite Score is based on the number of citations to documents by a journal over four years, divided by the number of the same documents types indexed in Scopus and published in those same <u>four years</u>.

For example, the 2020, Cite Score counts the citations received in 2017-2020 to documents published in 2017-2020, and divides this by the number of these documents published in 2017-2020.

Mostly on **Pharmacy field**.

ORGANIZATIONS

- Clarivate Analytics
- ACM Digital Library
- Biomad Central
- EBSCOhost Databases
- IEEE Xplore
- InSPIRE
- PubMed Central
- ScienceDirect
- SciFinder Scholar
- Scitation
- US. Patent & Trademark Office Databases

COUNTERFEIT

- AE Global Index
- Advanced Science Index
- African Quality Centre for Journals
- American Standards for Journals and Research (ASJR)
- Arab Impact Factor
- Cite Factor
- Cosmos Impact Factor
- Global Impact Factor
- Global Science Citation Impact Factor (GSCIF)
- Universal Impact Factor (UIF)

h- index

Based on the set of the scientist's most cited papers and the number of citations that they have received in other publications.

The h-index is defined as the maximum value of h such that the given author has published at least h papers that have each been cited at least h times.

$$h ext{-index }(f) ext{ = }\max\{i\in\mathbb{N}:f(i)\geq i\}$$

g index

The g-index is the unique largest number such that the top g articles received together at least g2 (g square) citations.

Hence, a g-index of 10 indicates that the top 10 publications of an author have been cited at lest 100 times (10 square).

$$g^2 \leq \sum_{i \leq g} c_i$$

$$g \leq rac{1}{g} \sum_{i \leq g} c_i$$

i10-index

The i10-index indicates the number of academic publications an author has written that have been cited by at least 10 sources.

Almetrics

Almetrics are non-traditional bibliometrics proposed as an alternative or complement to more traditional citations impact metrics, and they use public platforms to gather data with open scripts and algorithms.

Categories:

- Viewed HTML views and PDF downloads
- Discussed journal comments, science blogs, Wikipedia,
 Twitter, Facebook and other social media
- Saved Mendeley, CiteULike and other social bookmarks
- Cited citations in the scholarly literature, tracked by Web of Science, Scopus, CrossRef and others
- Recommended for example used by F1000Prime

Cont....

84	Citations	99TH PERCENTILE
15.61	Field-Weighted Citation Impact	
288	Mendeley Readers	99TH PERCENTILE
12	Blog posts	
284	Tweets	99TH PERCENTILE
6	Mass Media stories	
32	Mentions in 4 additional sources	
	15.61 288 12 284 6	15.61 Field-Weighted Citation 288 Mendeley Readers 12 Blog posts 284 Tweets 6 Mass Media stories

OTHERS

- Author-level Eigenfactor
- o *m*-index
- *e*-index
- o c-index
- o o-index
- o 1-index
- RA-index
- o s-index
- w-index
- oh sqare



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THANK YOU