Clarivate™

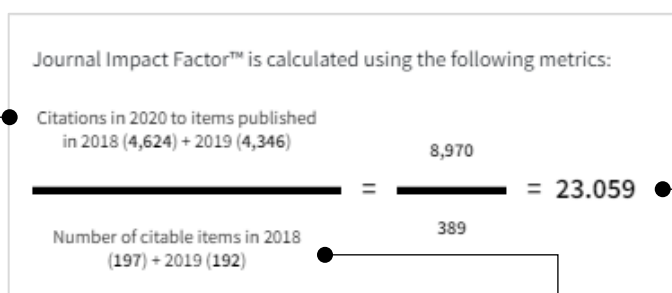# Journal Citation Reports

Journal Impact Factor (JIF)

The Journal Impact Factor (JIF) is a ratio which divides a journal's received citations by a count of its published articles. It's not a mathematical average, but it does provide an approximation of the mean citation rate for a typical article. The detailed explanation below will help you understand exactly what is counted in both the numerator and denominator of this ratio.

The anatomy of the Journal Impact Factor

Journal Impact Factor™ is calculated using the following metrics:

$$\frac{\text{Citations in 2020 to items published in 2018 (4,624) + 2019 (4,346)}}{\text{Number of citable items in 2018 (197) + 2019 (192)}} = \frac{8,970}{389} = 23.059$$

JIF number: A typical article or review from this journal has been cited about 23 times, one or two years after publication.

JIF denominator: The number of citable items this journal published in the prior two years.

Items identified in Web of Science Core Collection as Articles or Reviews are included here as citable items. These represent the size of the scholarly contributions of the journal. Items like editorials, letters, and news items are excluded from the denominator. These serve a different communications role that is not generally reflected through scholarly citation. The contributions of these materials to JIF is visualized in the Citation Distribution graph.

JIF numerator

A subset of all citations to this journal in the calendar year: citations only to items with a publication date from the prior two years.

These citations are sourced from all item types included in Web of Science Core Collection indexes:

- Science Citation Index
- Social Science Citation Index
- Arts & Humanities Citation Index
- Proceedings Citation Indexes
- Book Citation Indexes
- Emerging Sources Citation Indexes

Citations to all document types, even those excluded from the denominator, are included. Visit this site for details on the inclusion of Early Access content.

Why two years?

It takes time for articles to be cited, and these rates vary by field. Articles typically begin to reach a citation peak after two years in many fields. Some fields have a slower velocity and reach their peak over longer periods of time. The Five-year Journal Impact Factor may be a better choice in those categories.
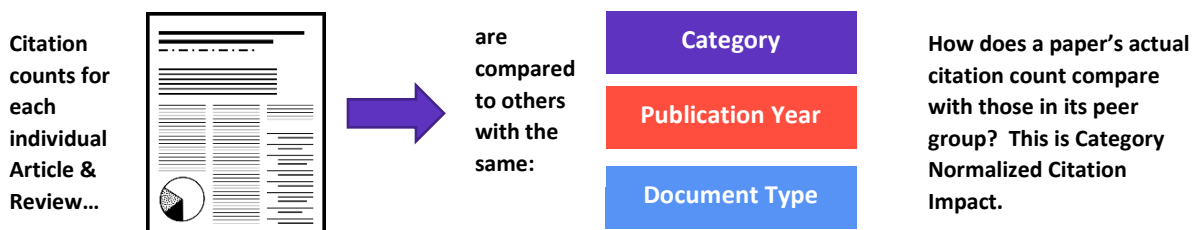
Journal Citation Indicator

Journal Citation Reports

What is the Journal Citation Indicator?

- A category-normalized metric calculated for **all** journals in the Web of Science Core Collection, including the Science Citation Index Expanded, Social Science Citation Index, Arts & Humanities Citation Index, and Emerging Sources Citation Index
- Another impact metric, complementing the Journal Impact Factor, that helps you assess journal performance with added context

What is category normalization?

Citation counts tell an important story, but they can be affected by certain publication characteristics. It's important to view these counts in an appropriate context. Normalization is the process of putting a citation count into context by showing you how a paper or a group of papers performs relative to papers that are similar in age, topic and type. The Journal Citation Indicator normalizes for three variables:

Citation counts for each individual Article & Review…

are compared to others with the same:

| Category |
| Publication Year |
| Document Type |

How does a paper's actual citation count compare with those in its peer group? This is Category Normalized Citation Impact.

Elements of the Journal Citation Indicator

Journal Citation Indicator is

the average of the category-normalized citation impact (CNCI) of the journal's articles & reviews published in the prior three-year period

Articles & Reviews only
- Published in prior three years
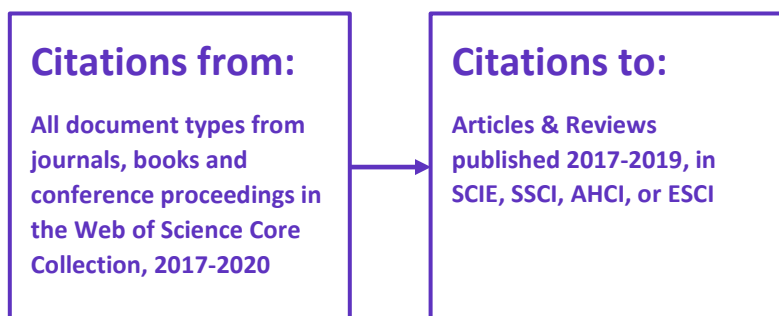- Each article or review receives a CNCI value
- Average CNCI is taken

For each article and review:

Category Normalized Citation Impact (CNCI) = $\dfrac{\text{Actual citations}}{\text{Expected citations}}$

Expected citations = Average cites to items of the same document type, year, and category

Data contributing to the 2020 Journal Citation Indicator:

Like other metrics in the JCR, the Journal Citation Indicator is static for the JCR year. It is created from a snapshot of data at the time the JCR is produced. It includes:

Citations from:	**Citations to:**
All document types from journals, books and conference proceedings in the Web of Science Core Collection, 2017-2020	**Articles & Reviews published 2017-2019, in SCIE, SSCI, AHCI, or ESCI**

Interpretation and considerations for the Journal Citation Indicator value

Journal Citation Indicator = 1.0

Means that published papers, across the journal, received citations equal to the average (mean) for the category.

⬆ **Greater than one is better than expected citation performance in category**

⬇ **Less than one is below expected citation performance in category**

- Journals that produce small numbers of articles and reviews may have less stable JCI values
- JCI values can be compared across categories, but comparisons are best made in adjacent fields that share similar citation patterns (within the Physical Sciences or Arts & Humanities, for example)
- The mean Category Normalized Citation Impact (CNCI) is used when items are assigned to more than one Web of Science Subject Category
- Using multiple indicators to evaluate a journal is always a best practice
- Read more about the Journal Citation Indicator in our discussion paper **available here**

Finding the Journal Citation Indicator in the JCR

Browse Journals: rank journals by Journal Citation Indicator value

Click the column heading to sort the table by the JCI value.

Categories									
Journal name ▾	ISSN	eISSN	Category ▾	Total Citations ▾	2020 JIF ▾	JIF Quartile ▾	2020 JCI ▾	% of OA Gold ▾	Average JIF Percentile ▾
JOURNAL OF ARCHAEOLOGICAL RESEARCH	1059-0161	1573-7756	ANTHROPOLOGY	873	4.364	Q1	3.48	22.50%	97.126
JOURNAL OF PEASANT STUDIES	0306-6150	1743-9361	ANTHROPOLOGY	5,620	6.461	Q1	3.06	10.00%	96.664
JOURNAL OF ARCHAEOLOGICAL METHOD AND THEORY	1072-5369	1573-7764	ANTHROPOLOGY	1,848	3.433	Q1	2.68	26.14%	92.529
EVOLUTIONARY ANTHROPOLOGY	1060-1538	1520-6505	ANTHROPOLOGY	2,210	6.086	Q1	2.50	14.06%	98.276
CURRENT ANTHROPOLOGY	0011-3204	1537-5382	ANTHROPOLOGY	7,130	2.983	Q1	2.44	2.81%	86.782
					3.240	Q1	2.44	52.78%	89.080
					1.250	Q3	2.23	16.55%	66.354
					3.439	Q1	2.13	100.00%	94.828
					1.452	Q2	2.04	0.00%	44.450
					3.216	Q1	1.94	11.67%	74.395
					3.406	Q1	1.92	9.14%	86.957
					2.287	Q1	1.78	7.18%	76.437

Filter panel:

Filter

Journals (26,638)	❯
Categories (229)	❮ ❯
Publishers (8,102)	❯
Country / region (198)	❯
Citation Indexes	❯
JCR Year	❯
Category Schema	❯
Open Access	❯
JIF Quartile	❯
JIF Range	❯
JCI Range	❯

Categories

Search

☐ Select All

☐ Acoustics
☐ Agricultural Economics & Policy
☐ Agricultural Engineering
☐ Agriculture, Dairy & Animal Science
☐ Agriculture, Multidisciplinary
☐ Agronomy
☐ Allergy
☐ Anatomy & Morphology
☐ Andrology
☐ Anesthesiology
☑ Anthropology
☐ Area Studies

☐ Astronomy & Astrophysics
☐ Audiology & Speech-language Pathology
☐ Automation & Control Systems
☐ Behavioral Sciences
☐ Biochemical Research Methods
☐ Biochemistry & Molecular Biology
☐ Biodiversity Conservation
☐ Biology
☐ Biophysics
☐ Biotechnology & Applied Microbiology
☐ Business
☐ Business, Finance

Reset   Apply

Use the filter panel to select journals or categories for ranking in the table.

Journal Profile: see a journal's rank by Journal Citation Indicator

Each journal profile will contain the Journal Citation Indicator trend as well as the rank based on the JCI for that journal.

Journal Citation Indicator (JCI)

⬇ Export

1.66

The Journal Citation Indicator (JCI) is a measure of the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in that category. It is used to help you evaluate journals alongside other journal metrics. Learn more

Journal Citation Indicator axis: 1.660 / 1.245 / 0.830 / 0.415 / 0.000

Rank by JCI includes the rank in category number, as well as the quartile and percentile performance based on the journal's JCI value.

Rank by Journal Citation Indicator (JCI)

Journals of a category are sorted by Journal Citation Indicator (JCI) resulting in the Category Ranking below. This is presented by year in descending order for each category in which the journal is ranked in JCR. The categories considered for JCI are not dependent on the edition. Learn more

CATEGORY
ENVIRONMENTAL SCIENCES
16/313

JCR YEAR	JCI RANK	JCI QUARTILE	JCI PERCENTILE	
2020	16/313	Q1	95.05	
2019	18/309	Q1	94.34	
2018	25/304	Q1	91.94	
2017	23/292	Q1	92.29	