Clarivate

Journal Citation Reports 2021 Release (2020 Data)

Make confident, data-driven decisions about collections management and manuscript submissions

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Regional Solution Consultant, Govt & Academia

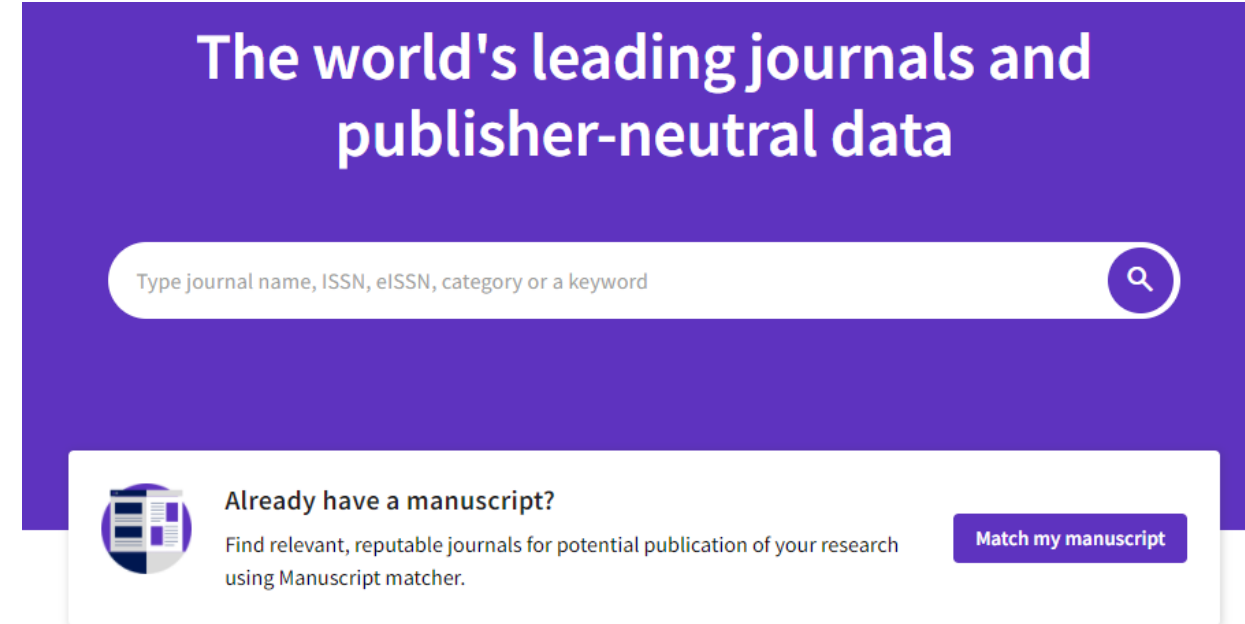July 2021

Our panelist for today

Dr. Subhasree Nag

Dr. Subhasree Nag is a regional solution consultant for the life sciences and scholarly research division at Clarivate Analytics. She completed her PhD from Texas Tech University Health Sciences Center, USA and her post-doctoral training from Pacific Northwest National Laboratory, USA. A pharmacologist and toxicologist by training, she has more than 8 years of research experience in anticancer drug discovery and pharmacokinetics areas with 25 peer reviewed publications and more than 1100 citations. At Clarivate, she is involved in user engagement, conducting author workshops, and creating strategy for research capacity building. Her other interests include community outreach in science education, scientific writing, and bibliometric evaluation.

What is the JCR?

The JCR is an annual report that distills citation trend data from the Web of Science Core Collection to help you understand journal performance.

- View Journal Impact Factor and other metrics.

- Data represents a snapshot in time: the 2021 edition reflects citations from literature published in 2020.

- All journals in JCR are sourced from these indexes:
  - **Science Citation Index Expanded**
  - **Social Sciences Citation Index**
  - **Arts & Humanities Citation Index**
  - **Emerging Sources Citation Index**

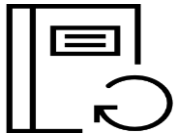- Citations are sourced from all indexes in the Core Collection.

The world's leading journals and publisher-neutral data

Type journal name, ISSN, eISSN, category or a keyword

Already have a manuscript?
Find relevant, reputable journals for potential publication of your research using Manuscript matcher.

Match my manuscript

Why use the JCR?

Publishers/Editors
- Compare your journals directly against peers and competitors.
- Understand the citation profile of the documents in your journals.
- Track your publications' performance by building a custom journal list.

Librarians
- Find quantitative data to justify your collection development decisions.
- Evaluate your collections with custom journal lists.
- Track your faculty/institution's contributions to journal performance.

Data Scientists
- Dive deeper into the JCR data with our downloadable cited and citing data tables
- Dive into full data and metrics files, to understand how disciplines interconnect
- in the citation network.

Researchers
- Evaluate journals for your submissions.
- Focus on publishing trends like Open Access
- Determine your articles' contributions to journal performance.

Web of Science Journal Citation Reports (JCR)

Make confident decisions with objective, unbiased journal statistics from publisher-neutral experts

Selectivity

Quickly find a list of the most influential journals in all disciplines. Each journal profiled in JCR has met the **rigorous quality and impact standards** documented in the Web of Science Core Collection editorial selection process.

Quality control

Work with credible metrics derived from accurate and complete data. Journals displaying evidence of **excessive self-citation and citation stacking are suppressed** from Journal Citation Reports to support research integrity in scholarly publishing.

Transparency

Easily uncover the **relationship between article and journal citations** to better understand a journal's role in the network of scholarly communications. Access to article data helps you follow best practices for research evaluation.

Multiple ways to view impact

Evaluate journals with a multidimensional view of a journal's impact and influence. View citation metrics alongside **descriptive open access statistics and contributor information** that provide a holistic picture of each journal.

What sets Journal Citation Reports Apart?

"Clarivate Analytics is neutral: we are not a publisher and we have no plans to become one."

What this means:
Clarivate doesn't own journals, they are an information company. This makes JCR rankings objective and unbiased.

"We carefully weed out any predatory and non-peer-reviewed journals, so you can be confident that only the best journals are eligible to be given a JIF score."

What this means:
Impact Factor is precious and **ONLY THE BEST** journals receive one.

A long tradition of transparency

Since the publication of the first Journal Citation Reports (JCR) in 1976, the Journal Impact Factor (JIF) has become a standard way to measure the citation impact of a journal. The JCR was created to describe and define the network of journals as an aggregate of the article citation network in the Science Citation Index. It was intended to provide an objective measure regarding scholarly use of journals to support both libraries and authors in publication evaluation.

Since the launch of its web format in 1998, JCR has become a canonic tool for publishers, collection development librarians and a reliable discovery informative tool on "Where to publish". Our transparency on the Journal Impact Factor has been important and will remain so for all indicators in JCR, with this release being no exception.

"This book is the product of more than ten years' research"

-Preface to *Journal Citation Reports*, Volume 9 of the 1975 SCI[iii]

Check out our blog for more on the history of JCR

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JCR Formats and Features Timeline

1975

First year for JCR—published as part of the SCI—included JIF and Immediacy Index covering 2,630 journals

1978

First year for **Social Science Citation Index edition** with 1,285 journals. Source data listing also added.

1979

Cited half-life added

1980

Subject category rankings introduced in both editions

1990

JCR available on **microfiche** only

2014

JCR integration on InCites platform, now able to access both Science and Social Sciences in all years

2008

5-year JIF, Eigenfactor, and **Article Influence Score** introduced

2004

Category-level median and **aggregate metrics** introduced

1998

JCR **Web** introduced

1995

JCR **CD-Rom** introduced

2015

% Articles in Citable Items, Journal Impact Factor Percentile, and Normalized Eigenfactor added

2017

11,459 journals In **236** Categories **Percent Citable Items** introduced

2018

Enhanced **Journal Profile Page Full transparency** on **Journal Impact Factor**

2020

Introduced **gold open access data** to show its contribution to journal content and citation

2021

Content expansion with the addition of all **AHCI and ESCI titles** and the new **Journal Citation Indicator (JCI)**

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Journal Citation Reports (JCR) 2021 Update

Over 70% more content

Analyze the full breadth of research covered in Web of Science Core Collection journals, including the Arts & Humanities Citation Index (AHCI) and the Emerging Sources Citation Index (ESCI.

New metric

The **Journal Citation Indicator,** calculated for all journals in the Web of Science Core Collection, provides a single journal-level metric that can be easily interpreted and compared across disciplines.
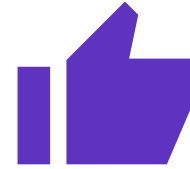
Redesigned UI

Easily and intuitively explore and visualize the layered, rich data of the Journal Citation Reports via a new, user-friendly interface.

The journals covered in AHCI and ESCI have met the same rigorous quality criteria, applied by our expert in-house editors, for coverage as the publications covered in the Science Citation Index and the Social Sciences Citation Index. Therefore, AHCI and ESCI – and their content from trustworthy, Web of Science-selected journals – merit complete coverage in the JCR.

AHCI and ESCI journals *will not* be awarded a Journal Impact Factor, but a new metric, the **Journal Citation Indicator.**

https://clarivate.com/blog/the-road-to-journal-citation-reports-2021-new-content-and-a-new-metric/

- Make confident collections management and publishing decisions
- Quickly identify which journals are cited most often by scholars in over *250 disciplines*

Introducing the new Journal Citation Indicator

Assess journal performance with additional context

The Journal Citation Indicator harnesses another Clarivate measure: **Category Normalized Citation Impact (CNCI),** a metric found in InCites. The value of the Journal Citation Indicator is the mean CNCI for all articles and reviews published in a journal in the preceding three years.

Journal Citation Indicator (JCI)

⬇ Export

0.74

The Journal Citation Indicator (JCI) provides a single journal-level metric where global average in a category is 1. Documents with a JCI of 1.5 have 50% more citation impact than the average in that category. Learn more
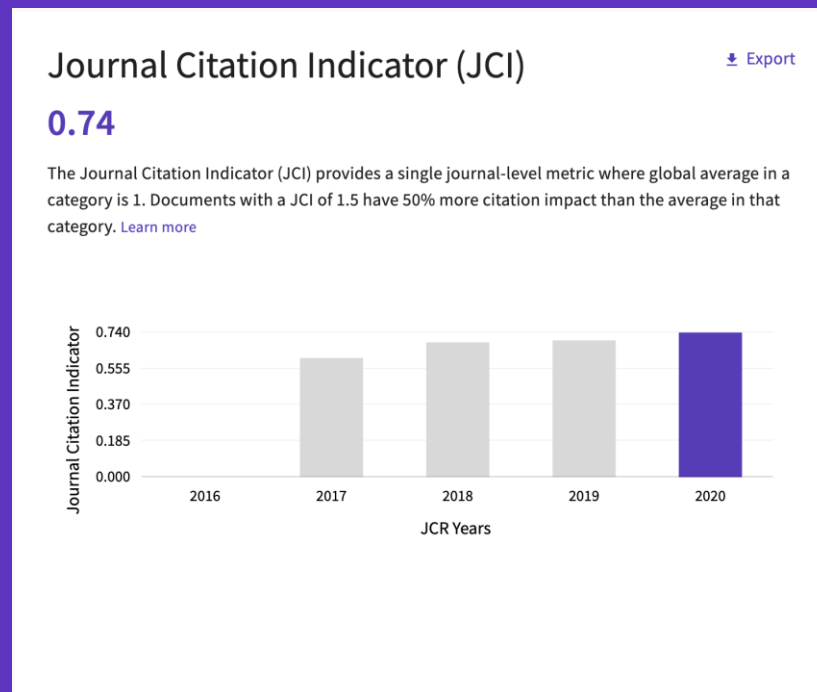
- Help your researchers draw better informed conclusions about journal impact

How is the Journal Citation Indicator calculated

The Journal Citation Indicator is available to all active journals in the following editions:

- Science Citation Index Expanded
- Social Science Citation Index
- Arts & Humanities Citation Index
- Emerging Sources Citation Index

More Information:

Introduction to the Journal Citation Indicator
Category Normalized Citation Impact

The **Journal Citation Indicator (JCI)**, a field-normalized metric, represents the average category-normalized citation impact for papers published in the prior three-year period.

For example, the 2020 Journal Citation Indicator will be calculated for journals that published citable items (i.e., articles or reviews) in 2017, 2018 and 2019, counting all citations they received from any document indexed between 2017 and 2020.

The value of the Journal Citation Indicator is the mean Category Normalized Citation Impact (CNCI) for all articles and reviews published in the most recent three years (e.g., between 2017 and 2019 for the 2020 indicator value).

Journals in SCIE, SSCI, AHCI and ESCI

All journals, books and conference proceedings in the Core Collection

2017-2019

2017-2020

Articles & Reviews

All Document Types
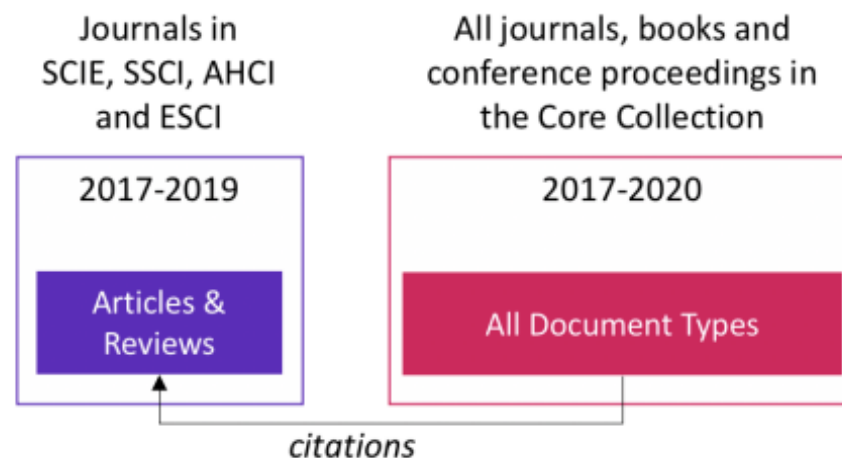
citations

The Journal Impact Factor

JIF metrics are available to all active journals in the following editions:

- Science Citation Index Expanded
- Social Science Citation Index

The JIF is defined as citations to the journal in the JCR year to items published in the previous two years, divided by the total number of scholarly items, also known as citable items, (these comprise articles and reviews) published in the journal in the previous two years.

The JCR year is the last complete year within that year's JCR data set. For example, the JCR year for the 2021 release is 2020.

Source paper published in 2020

Cited reference published in 2018 or 2019

< 2018   2018   2019   2020   2021
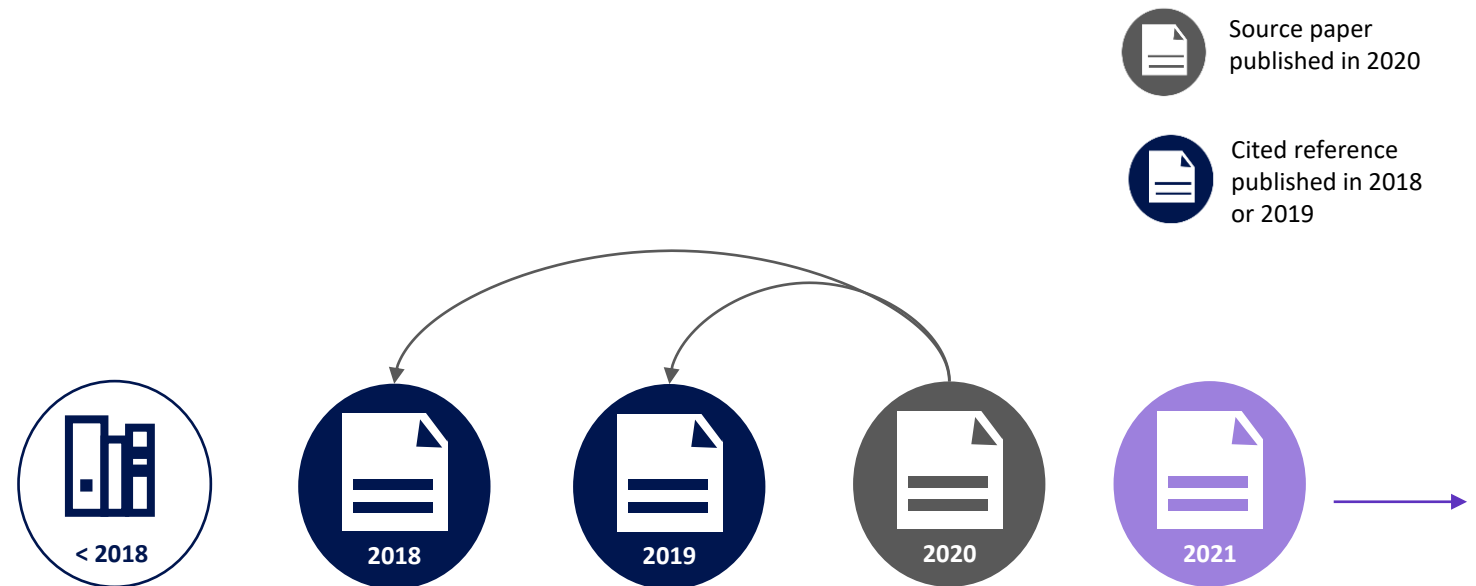
Journal Citation Indicator & Journal Impact Factor

The **Journal Citation Indicator** (JCI) is designed to *complement* the Journal Impact Factor™ (JIF) – the original and longstanding metric for journal evaluation – and other metrics currently used in the research community. In addition to the use of **normalization**, there are several key differences between the JCI and the JIF, shown in this table:

Feature	Journal Impact Factor	Journal Citation Indicator
All Web of Science Core Collection journals	N	Y
Field-normalized citation metric	N	Y
Fixed dataset	Y	Y
Counts citations from the entire Core Collection	Y	Y
Counts citations from the current year only	Y	N
Includes Early Access (EA) content from 2020 onward	Y	Y
Includes unlinked citations	Y	N
Fractional counting	N	N

Table 1 – Comparison of Journal Citation Indicator to JIF

Also, the JIF calculation is based on citations made in the current year, while the JCI **counts citations from any time period following publication**, up to the end of the current year.

The JCI will bring citation impact metrics and providing this information will increase exposure to journals from all disciplines, helping users to understand how they compare to more established sources of scholarly content.

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The **Journal Citation Indicator** (JCI) is designed to *complement* the **Journal Impact Factor** (JIF) and other metrics currently used in the research community.

Explore several angles of a journal's development with the wide range of metrics in Journal Citation Reports.

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- Most indexed Early Access items have an early access date and a final publication date in the same calendar year. The new JCR policy will not change how these items are counted.

- For indexed Early Access items where the early access date is in a different calendar year than the final publication date, we will use only the early access data. This will only affect items indexed with an early access date of 2020 or later.

Early Access 2020 example with 2021 planned publication

JOURNAL OF
DOI:
Early Access: SEP 2020
Document Type: Article; Early Access
120
CitedReferences

2020 citations to 2019 (7) or 2018 (16)
Contribution to 2020 JIF: 25

2021 citations to 2020 (0) or 2019 (7)
Contribution to 2021 JIF: 7
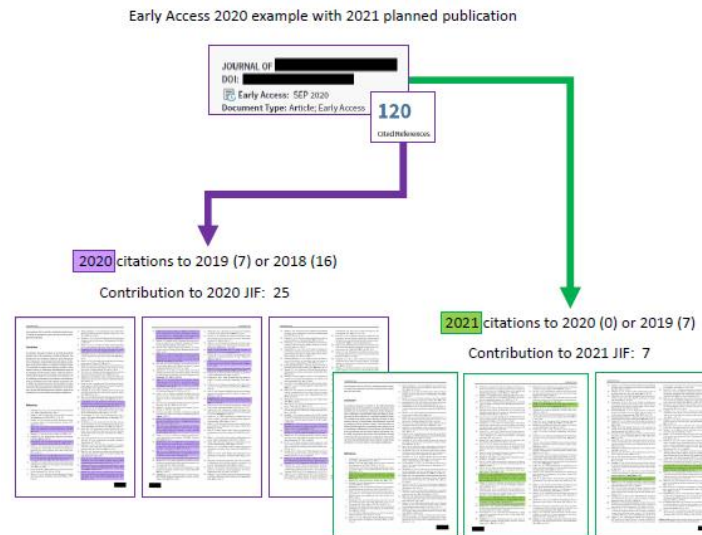
Early Access

The expanded coverage in the 2021 JCR release will introduce **Early Access** articles, reflecting the earliest availability of new research as it appears in the "version of record" prior to official publication.

New User Experience

Dual Access from launch to the remainder of 2021

New Modernized interface

Customize your experience and save indicator selections for quicker assessments.

Interactive Charts
Assess data in the most convenient format

Citation distribution

↓ Export

The Citation Distribution shows the frequency with which items published in the year or two years prior were cited in the JCR data year (i.e., the component of the calculation of the JIF). The graph has similar functionality as the JIF Trend graph, including hover-over data for each data point, and an intractive legend where hovering over a data element's legend highlights that element in the body of the graph. You can view Articles, Reviews, or Non-Citable (other) items to the JIF numerator. Learn more
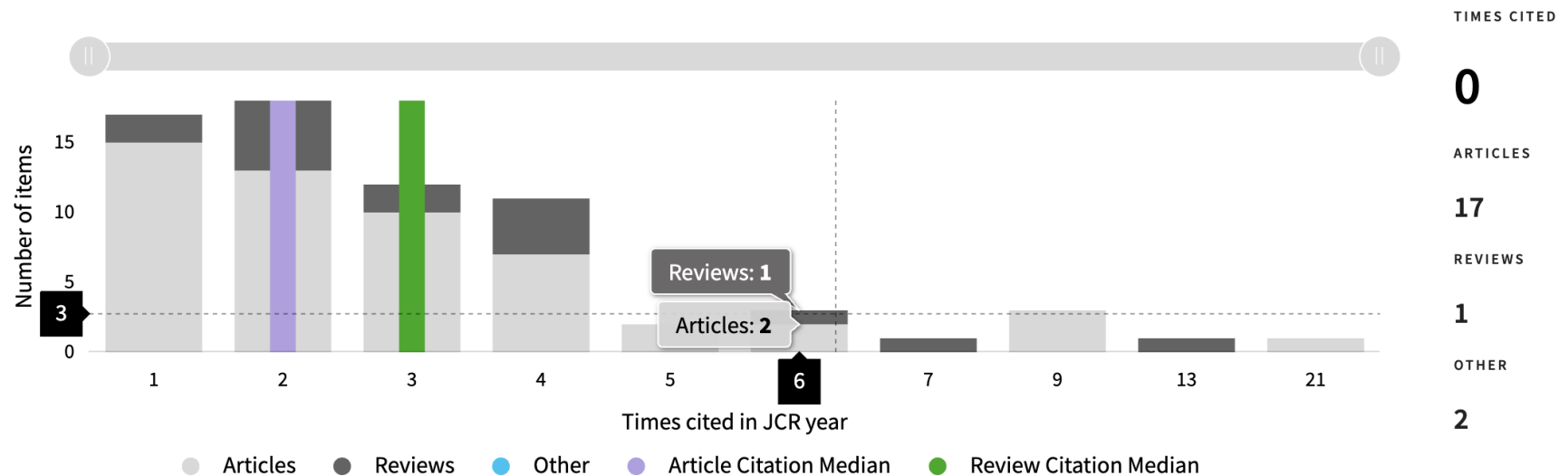
Intuitive ranking
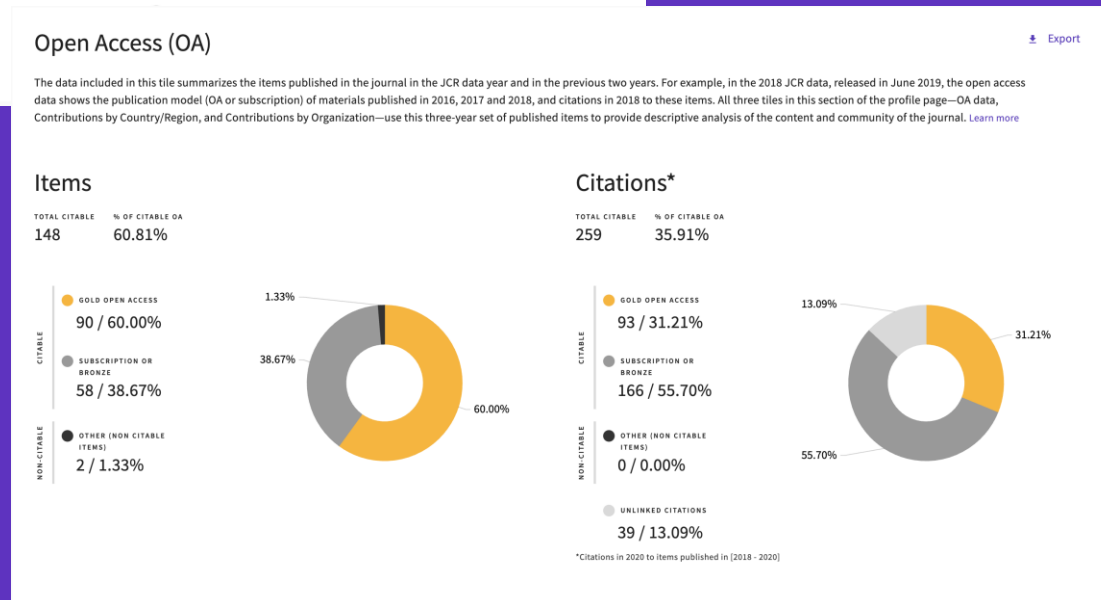Compare JIFs in all categories, side by side

Make confident decisions about your open access strategy
Transparent open access data in the JCR
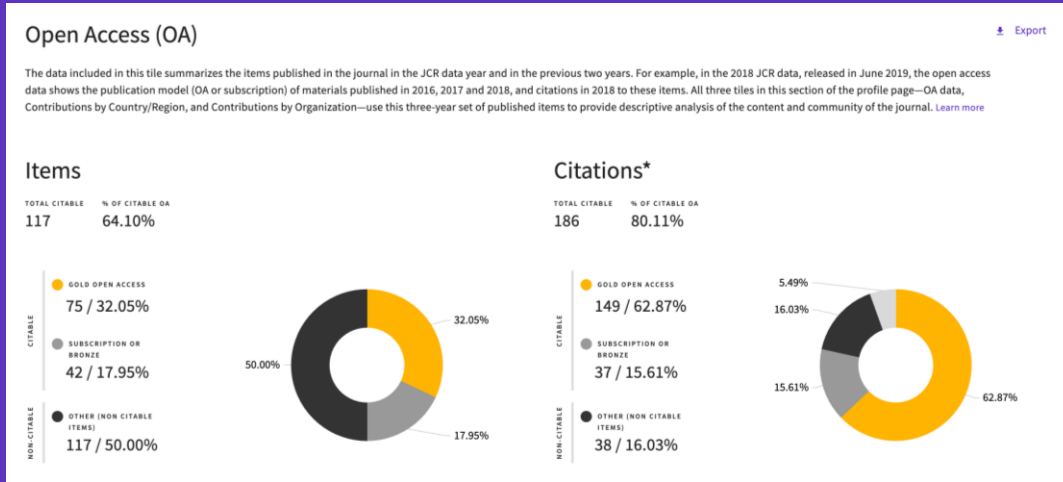
Example 1: 32% OA publications get 63% of the citations

Example 2: 60% OA publications get 31% of the citations

- Identify reputable journals that can make your article available as open access at the time of publication

- Understand how journals' access models impact the scholarly discourse within your community

- Make data driven decisions about your organization's open access policies

Journal profile
In a single page – Ongoing transparency

Other Metrics on the Journal Citation Reports

Immediacy Index

Eigen Factor
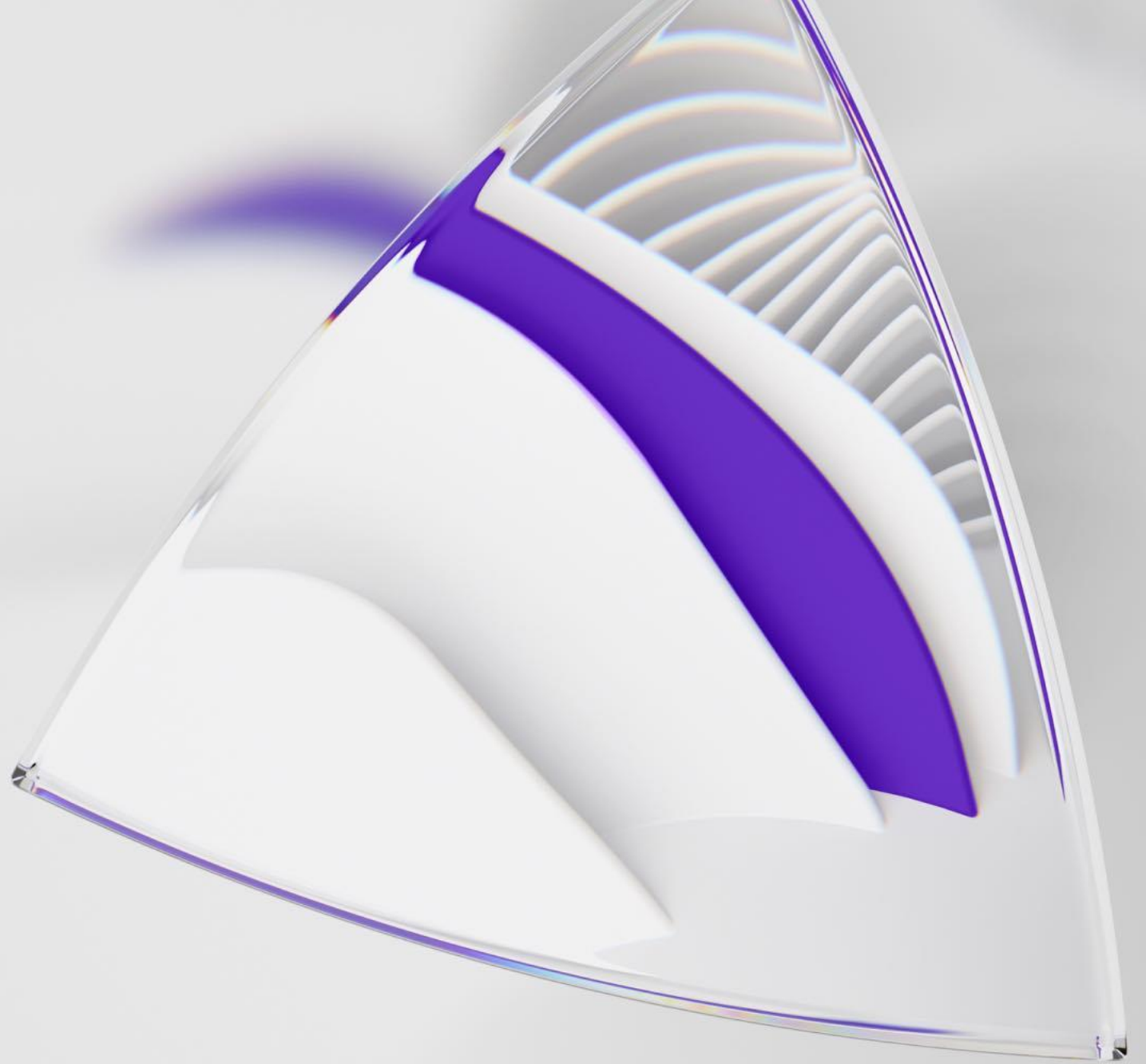
Normalized Eigen Factor

Article Influence score

Cited Half Life

Citing Half Life

Thank you

Leverage Journal Citation Reports data outside of the platform.

We now offer a new **Journals API** that provides journal metadata and metrics, including Journal Impact Factor and the new Journal Citation Indicator.

*For journals covered on our Web of Science Core Collection - via our Developer Portal.

InCites Benchmarking & Analytics™ | Journal Citation Reports™

New Web of Science™ Journals API

May 2021

The new Journals API will complement our suite of RESTful Web of Science APIs to provide complete journal metadata and metrics from the Journal Citation Reports

Publication metadata

Web of Science API Lite
Support search and data integration using limited Web of Science data returned as JSON or XML

Web of Science API Expanded
Support search and data integration using full Web of Science data returned as JSON or XML

Publication metrics

InCites API
Support bibliometric analysis and integration of document-level metrics

Journal metadata and metrics

Web of Science Journals API
Support bibliometric analysis and integration of journal-level metrics

Coverage

21,000 +
journals covered*
Includes the sciences (SCIE), social sciences (SSCI), and now both the arts & humanities (AHCI) and emerging sources (ESCI)

*From July 2021

All Web of Science Core Collection™ Journals

12,000 +
have a Journal Impact Factor™ (JIF)
SCIE and SSCI

A new normalized journal metric*

Journal Citation Indicator
calculated for all Web of Science Core Collection journals, along with:

- Journal name & ISSN/eISSN
- Category and rank
- Total cites
- Immediacy Index
- Journal Impact Factor™
- 5-year JIF
- JIF quartile

- Average JIF percentile
- Eigenfactor and Article Influence Score
- Cited/citing half-life
- Citable items
- Open access
- Source data counts

Example use cases

Integrate with internal systems
For example, to pass Journal Impact Factors (JIFs) and Journal Citation Indicators (JCIs) to journal web pages

Bibliometric studies
Access and retrieve core journal metrics for entire categories of groups and journal to include in analyses

API usage

Journal
- Query for all journals or by journal ID
- Get cited and citing journals
- Get journal metrics

Category
- Query for all categories or by category ID
- Get cited and citing categories
- Get category metrics

Queries
Boolean AND/+, OR and NOT operators are supported, along with '*' wildcards. Queries can be filtered by values and ranges

See https://developer.clarivate.com/apis/wos-journals for more information

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