

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

Journal Citation Reports
2020 Release (2019 Data)

June 2020

Ever growing scholarly publishing landscape



**3 million papers
per year¹**



**42,500 scholarly
journals¹**



**14,785 open access
journals²**



**13,000 “predatory”
journals³**

¹2018 STM Report

²Listed in DOAJ June 16, 2020

³May 2020 [Economist article](#)

Ever growing scholarly publishing landscape

How do researchers and librarians at your institution assess scholarly journals?



**Find journals
consistent with your
values to showcase
your research**



**Ensure your library
collections support
rigorous research and
teaching**



**Make data-driven
decisions about
your open access
strategy**

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 the sciences and social sciences. 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.



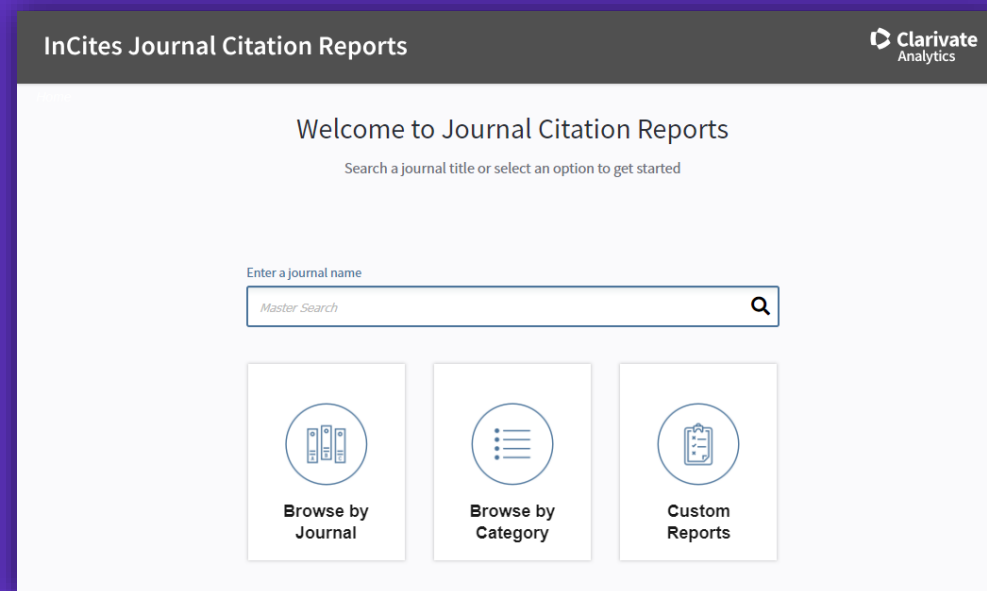
Multiple ways to view impact

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 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 2020 edition reflects citations from literature published in 2019.
- All journals in JCR are sourced from two indexes:
 - Science Citation Index Expanded
 - Social Sciences Citation Index
- Citations are sourced from all indexes in the Web of Science Core Collection.



Learn More about the 2020 edition:
[Product Release Notes](#)

2020 Journal Citation Reports

2019 Data



12,171
journals



236
categories



83
countries



1,658
Gold OA
journals



7,487
Hybrid
journals



351
new journals
added to the
JCR this year



33
journals
suppressed



15
Editorial
Expression of
Concern on 15
additional titles



9.41%
average increase
in Journal Impact
Factor

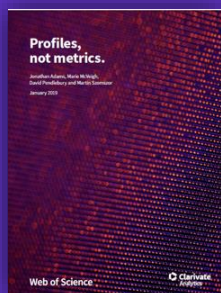
Quickly obtain a concise view of each journal's recent citation impact alongside descriptive statistics on contributing authors and open access

Research Integrity

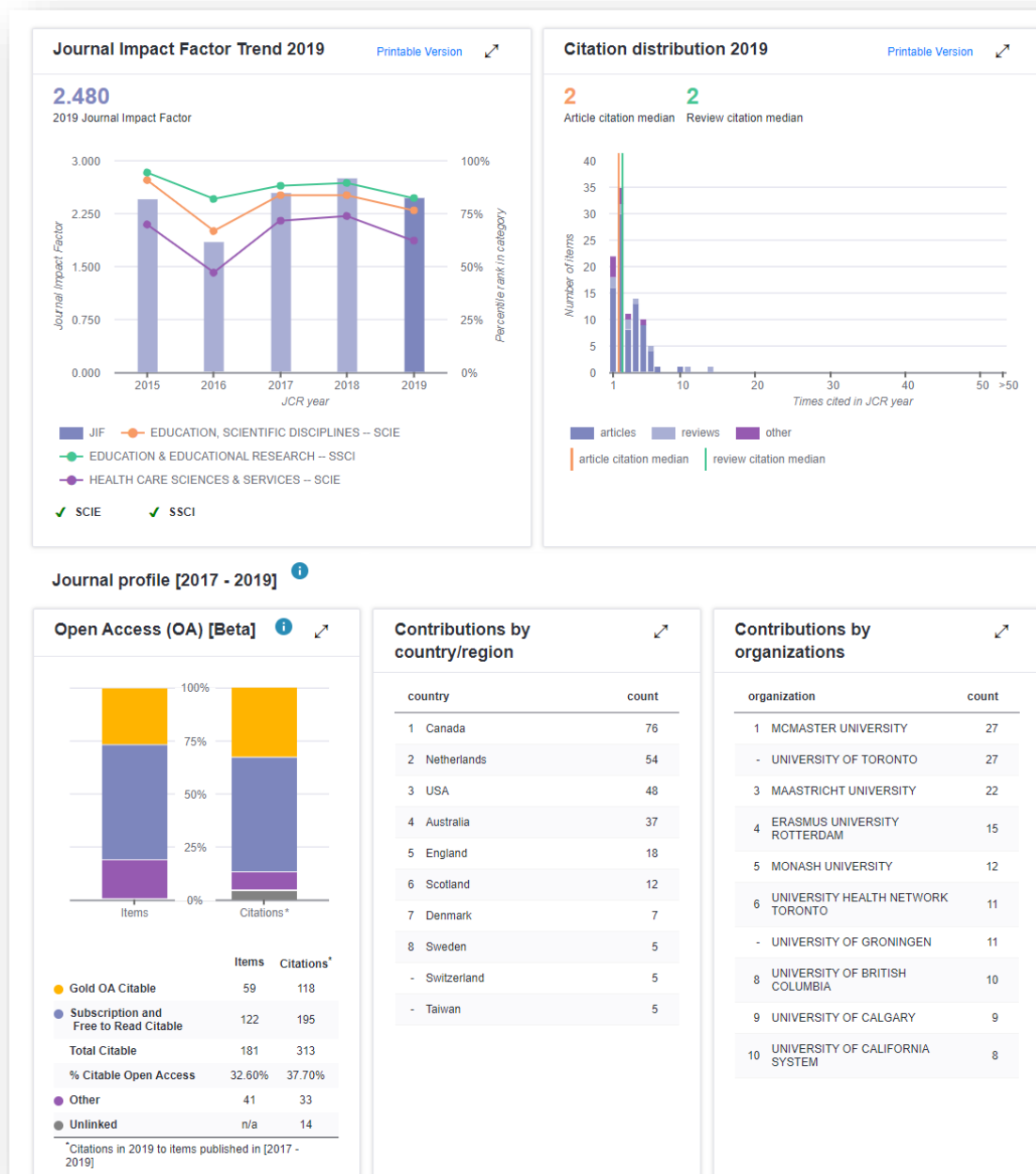
Follow best practices for research evaluation with multidimensional journal profiles

✓ Assess journals with multiple indicators and visualizations that provide you with context for the numbers

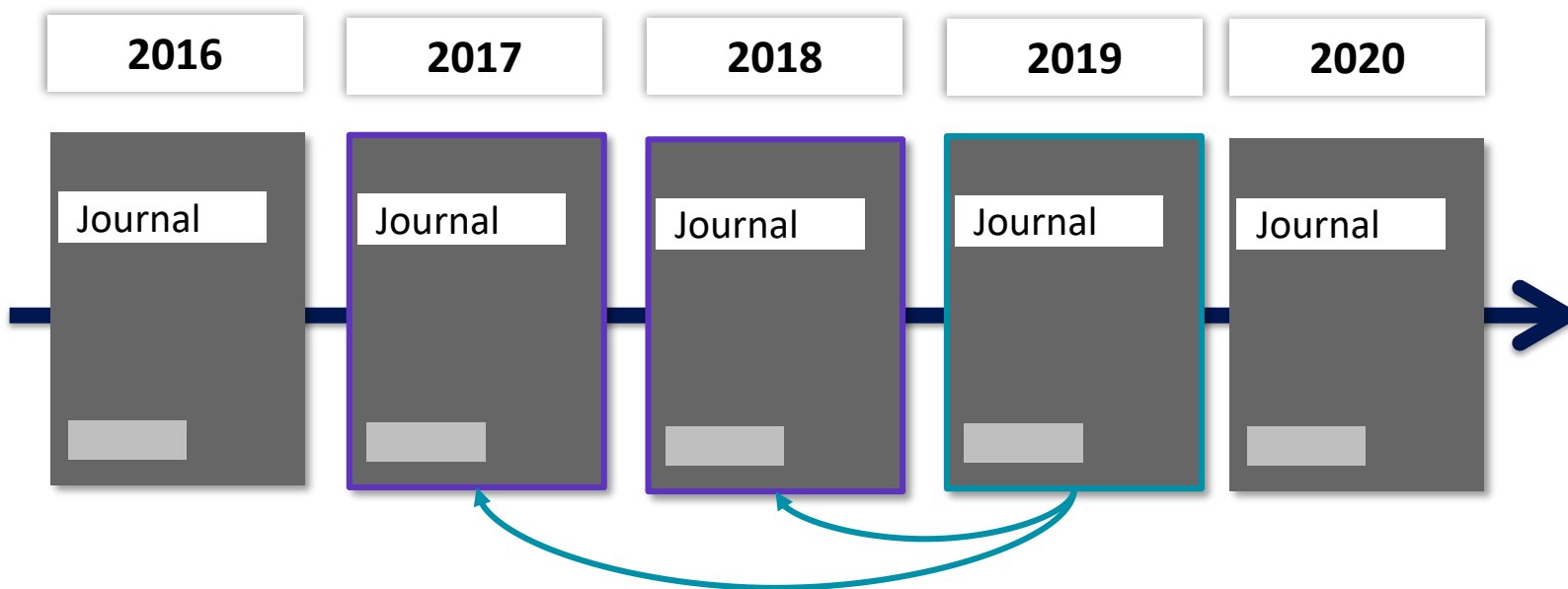
✓ Quickly and easily distinguish the difference between article versus journal metrics



For more information, see ISI's [Profiles, not Metrics Report](#)



Journal Impact Factor reflects a JOURNAL's overall performance



Learn more: [JCR Best Practices](#)

2019 Journal Impact Factor

Ratio of citations from 2019 to papers published in 2017 and 2018 to papers published in 2017 and 2018

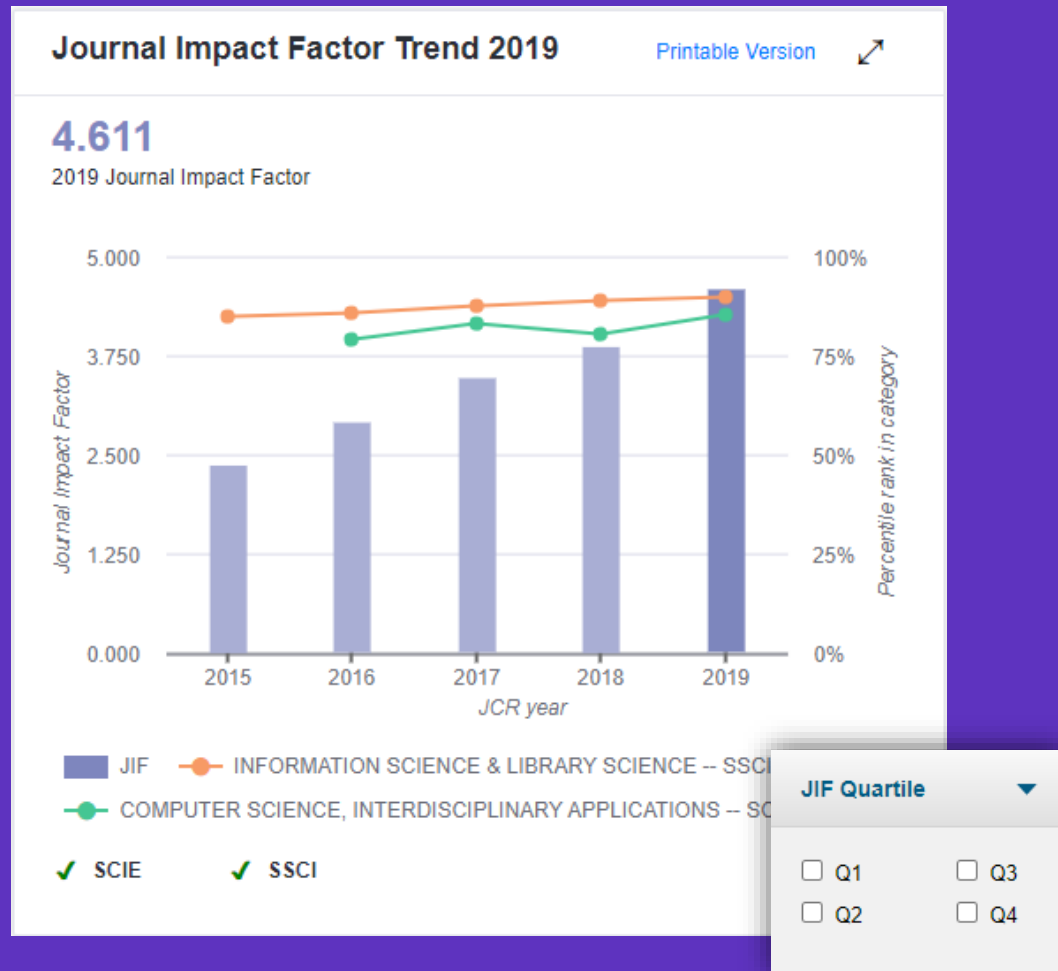
Journal Impact Factor Calculation

$$\text{2019 Journal Impact Factor} = \frac{496}{14} = 35.429$$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2019 to items published in 2017 (163) + 2018 (333)}}{\text{Number of citable items in 2017 (6) + 2018 (8)}} = \frac{496}{14}$$

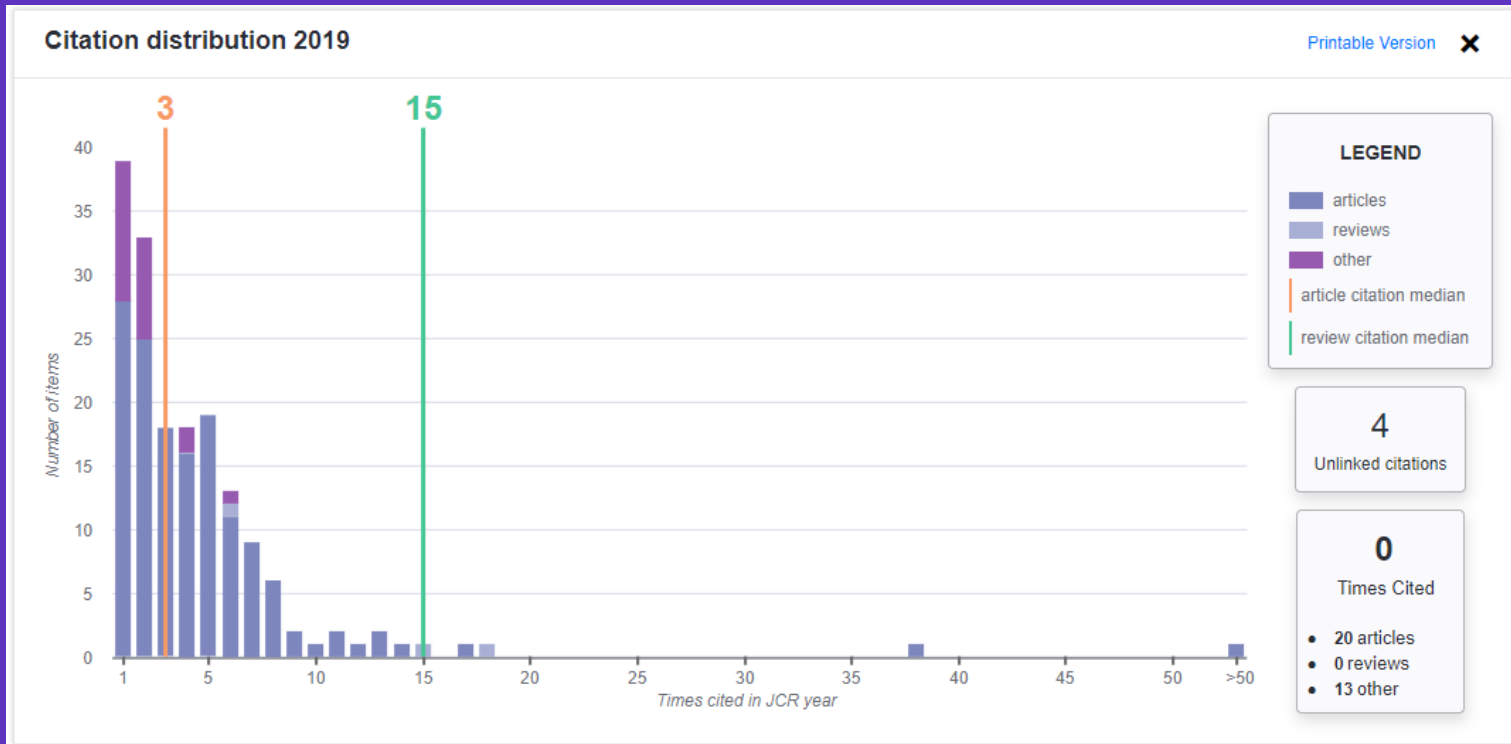
Help your researchers draw better informed conclusions about journal impact



Assess journal performance in context with ready-made visualizations that show a journal's rank and performance over time:

- See whether a journal's JIF is growing or declining
- Determine how the journal's JIF ranks it in comparison to other journals in its subject category or categories



Help your institution conduct research evaluation more responsibly



- Recognize the extent to which outlier papers may be driving a journal's JIF
- See the difference between paper versus journal level citations
- Understand how citation rates vary for articles versus reviews

Easily assess a journal's relevance to your research

Showing 167 citable items in 2018 and 2017 [View in Web of Science](#) [Export](#) ✕

TITLE	CITATIONS COUNTED TOWARDS JIF
Skewness of citation impact data and covariates of citation distributions: A large-scale empirical analysis based on Web of Science data By: Bornmann, Lutz; Leydesdorff, Loet Volume: 11 Page: 164-175 Accession number: WOS:000396614600013 Document Type: Article	8
Three practical field normalised alternative indicator formulae for research evaluation By: Thelwall, Mike Volume: 11 Page: 128-151 Accession number: WOS:000396614600011 Document Type: Article	8
Detecting rising stars in dynamic collaborative networks By: Panagopoulos, George; Tsatsaronis, George; Varlamis, Iraklis Volume: 11 Page: 198-222 Accession number: WOS:000396614600015 Document Type: Article	8
Quantifying and suppressing ranking bias in a large citation network By: Vaccario, Giacomo; Medo, Matus; Wider, Nicolas; Mariani, Manuel Sebastian Volume: 11 Page: 766-782 Accession number: WOS:000410528900016 Document Type: Article	8
What drives university research performance? An analysis using the CWTS Leiden Ranking data By: Frenken, Koen; Heimeriks, Gaston J.; Hoekman, Jarno Volume: 11 Page: 859-872 Accession number: WOS:000410528900026 Document Type: Article	7 
The memory of science: Inflation, myopia, and the knowledge network By: Pan, Raj K.; Petersen, Alexander M.; Pammolli, Fabio; Fortunato, Santo Volume: 12 Page: 656-678 Accession number: WOS:000442670600008 Document Type: Article	7 
Improving fitness: Mapping research priorities against societal needs on obesity By: Cassi, Lorenzo; Lahatte, Agenor; Rafols, Ismael; Sautier, Pierre; de Turckheim, Elisabeth Volume: 11 Page: 1095-1113 Accession number: WOS:000418020600013 Document Type: Article	7
Understanding the topic evolution in a scientific domain: An exploratory study for the field of information retrieval By: Chen, Baitong; Tsutsui, Satoshi; Ding, Ying; Ma, Feicheng Volume: 11 Page: 1175-1189 Accession number: WOS:000418020600018 Document Type: Article	7

- ✓ Determine whether your manuscript is a good topical fit for a journal
- ✓ Quickly identify your institution's contribution to a journal's JIF by clicking through to analyze its citable items in the Web of Science Core Collection

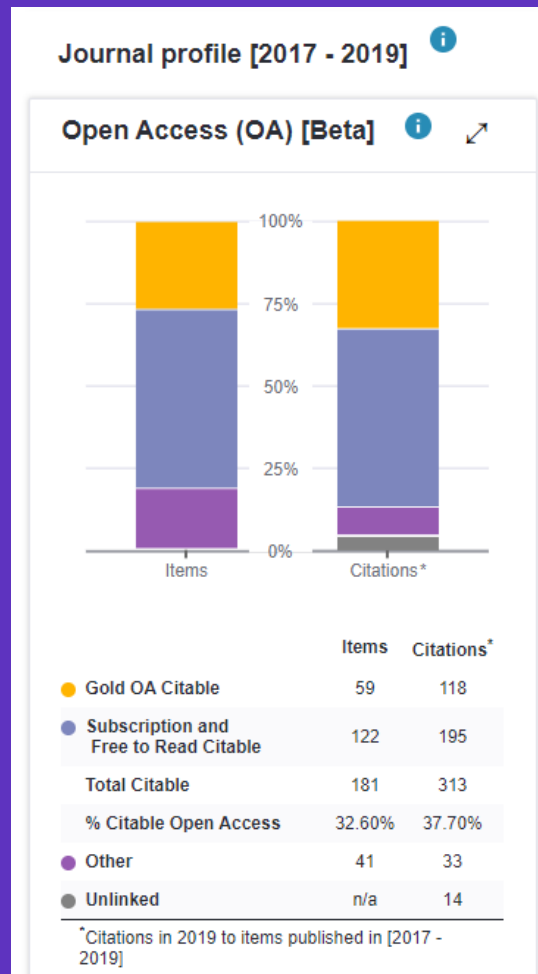
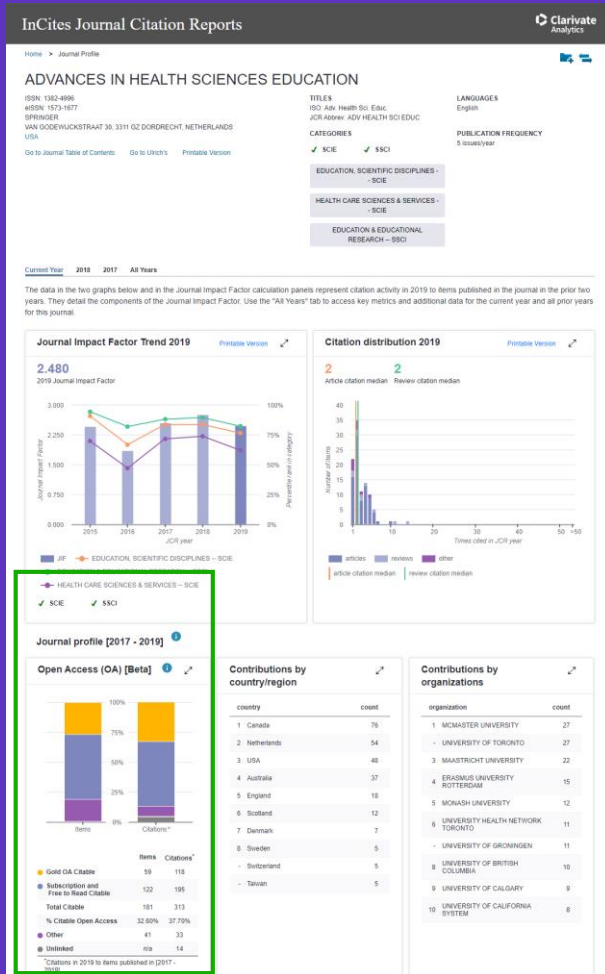
Easily assess a journal's relevance to your research

Contributions by country/region ↗		Contributions by organizations ↗	
country	count	organization	count
1 CHINA MAINLAND	65	1 UNIVERSITY OF WROCLAW	7
2 Poland	17	2 HARBIN MEDICAL UNIVERSITY	4
3 USA	9	- MEDICAL UNIVERSITY GDANSK	4
4 Iran	7	4 HUZHOU UNIVERSITY	3
5 Japan	5	- ISLAMIC AZAD UNIVERSITY	3
6 India	4	- JAGIELLONIAN UNIVERSITY	3
7 GERMANY (FED REP GER)	3	- MASHHAD UNIVERSITY MEDICAL SCIENCE	3
8 Italy	2	- SHANDONG UNIVERSITY	3
- South Africa	2	- SHANGHAI JIAO TONG UNIVERSITY	3
- South Korea	2	- SOUTHERN MEDICAL UNIVERSITY - CHINA	3
- Spain	2	- UNIVERSITY OF ALABAMA SYSTEM	3
- Turkey	2	- WUHAN UNIVERSITY	3

- Understand a journal's audience by viewing the affiliations and countries of contributing authors

Make confident decisions about your open access strategy

Transparent open access data in the JCR



- ✓ 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

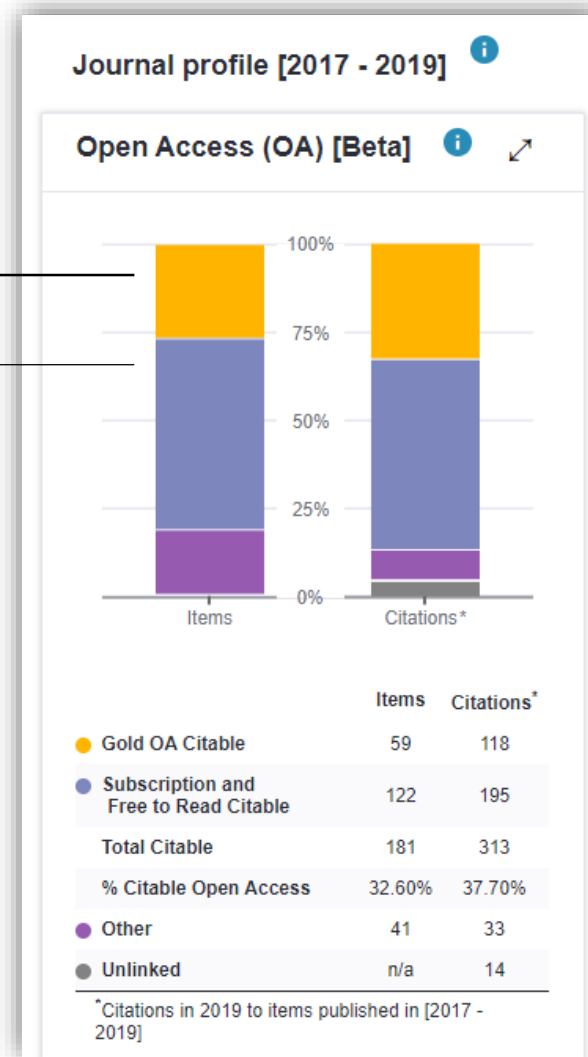
How is open access content displayed in Journal Citation Reports?

Gold OA Citable*

Papers tagged as either **DOAJ Gold** or **Other Gold** in Web of Science are counted as Gold OA Citable in JCR.

Subscription and free to read

Papers identified as **Bronze**, **Green Published** and **Green Accepted** in Web of Science are counted as part of the Subscription and Free to Read Citable content in JCR.



Citable items

All materials indexed as articles or reviews in Web of Science and counted as Citable Items in the denominator of the JIF.

Other

Incidental items, such as editorial material, correspondence, news, meeting abstracts, that are not counted in the JIF denominator.

Unlinked

Citations to a journal that have incomplete data at the paper level, but are still included in the JIF calculation.

*The data are current as of the time of JCR extraction from the Web of Science.

Make confident collections management decisions

Easily understand how open access articles contribute to hybrid journals

Journal Impact Factor Calculation

2018 Journal Impact Factor = $\frac{534}{24} = 22.250$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2018 to items published in 2016 (288) + 2017 (246)}{534}}{\text{Number of citable items in 2016 (12) + 2017 (12)}{24}} = \frac{534}{24}$$

Journal Impact Factor contributing items

[Show all](#)

Citable items in 2017 and 2016 (24) Citations in 2018 (534)

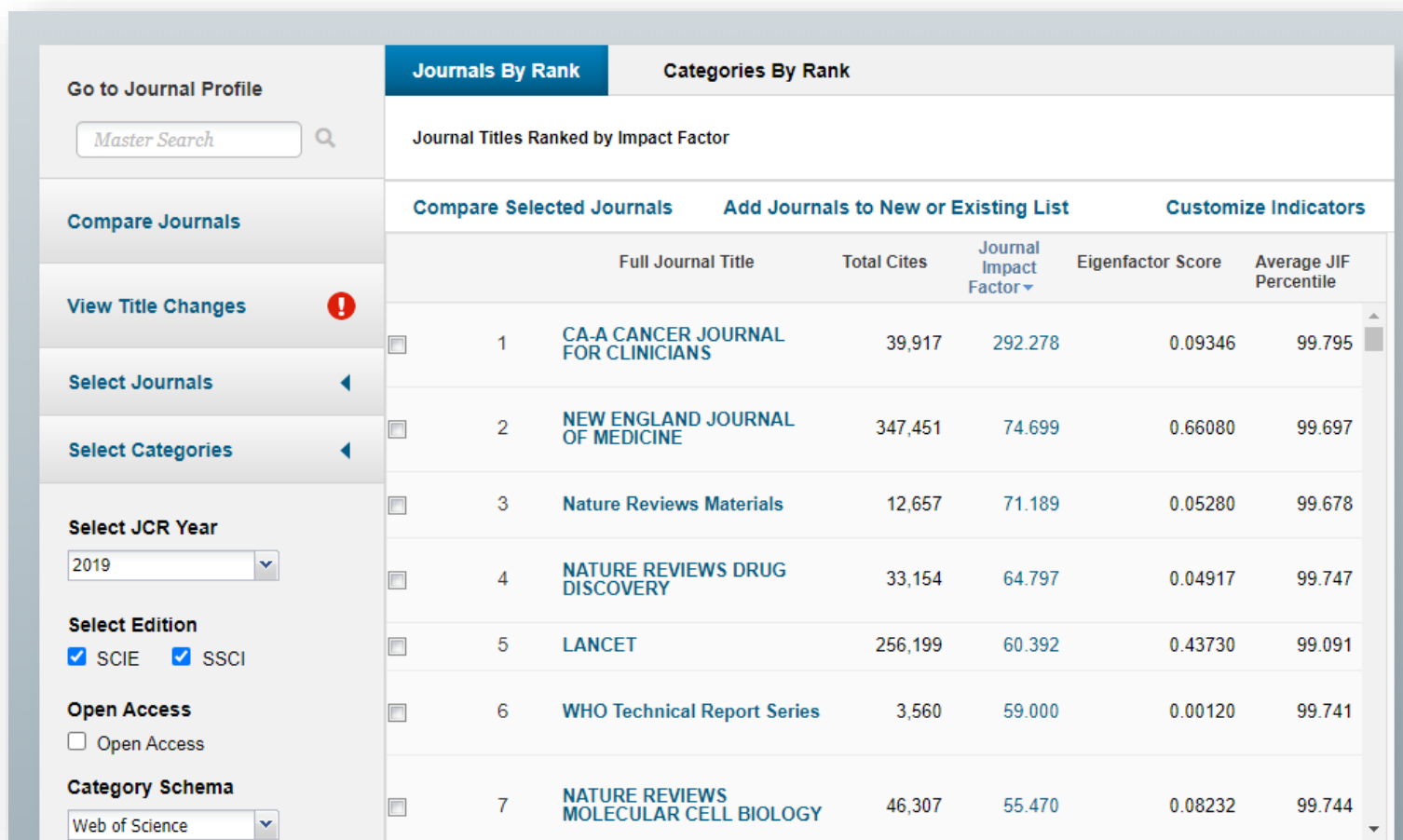
TITLE	CITATIONS COUNTED TOWARDS JIF
<p>Metallic glass matrix composites</p> <p>By: Qiao, Junwei; Jia, Haoling; Liaw, Peter K. Volume: 100 Page: 1-69 Accession number: WOS:000370994800001 Document Type: Review</p>	68
<p>Recent advances in wearable tactile sensors: Materials, sensing mechanisms, and device performance</p> <p>By: Yang, Tingting; Xie, Dan; Li, Zhihong; Zhu, Hongwei Volume: 115 Page: 1-37 Accession number: WOS:000398223000001 Document Type: Review</p>	62
<p>Microneedle arrays as transdermal and intradermal drug delivery systems: Materials science, manufacture and commercial development</p> <p>By: Larraneta, Eneko; Lutton, Rebecca E. M.; Woolfson, A. David; Donnelly, Ryan F. Volume: 104 Page: 1-32 Accession number: WOS:000377731300001 Document Type: Review</p>	44
<p>Graphene-based materials with tailored nanostructures for energy conversion and storage</p> <p>By: Yang, Yingkui; Han, Cuiping; Jiang, Beibei; Iocozzia, James; He, Chengen et al. Volume: 102 Page: 1-72 Accession number: WOS:000374359900001 Document Type: Review</p>	34
<p>Recent advances in white organic light-emitting diodes</p> <p>By: Wu, Zhongbin; Ma, Dongge Volume: 107 Page: 1-42 Accession number: WOS:000383822600001 Document Type: Review</p>	31
<p>Sol-gel metal oxide dielectrics for all-solution-processed electronics</p> <p>By: Park, Sungjun; Kim, Chang-Hyun; Lee, Won-June; Sung, Sujin; Yoon, Myung-Han Volume: 114 Page: 1-22 Accession number: WOS:000397368200001 Document Type: Review</p>	25
<p>Graphene-based flexible electronic devices</p> <p>By: Han, Tae-hee; Kim, Hobeom; Kwon, Sung-Joo; Lee, Tae-Woo Volume: 118 Page: 1-43 Accession number: WOS:000405046200001 Document Type: Review</p>	23

J	K	L	M
Document Type	Number of Citations	OA DOAJ Gold	OA Other Gold
Review	68		Other Gold
Review	62		
Review	44		Other Gold
Review	34		
Review	31		



View OA status at the article level for the full list of citable items, and export the data as a CSV file to use in your analytics projects

Make confident collections management decisions



The screenshot displays the 'Journals By Rank' section of the Clarivate JournalRank tool. The interface includes a sidebar with navigation options like 'Go to Journal Profile', 'Compare Journals', and 'View Title Changes'. The main content area shows a table of journals ranked by impact factor, with columns for 'Full Journal Title', 'Total Cites', 'Journal Impact Factor', 'Eigenfactor Score', and 'Average JIF Percentile'. The table lists seven journals, with 'CA-A CANCER JOURNAL FOR CLINICIANS' at the top.

	Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score	Average JIF Percentile
<input type="checkbox"/>	1 CA-A CANCER JOURNAL FOR CLINICIANS	39,917	292.278	0.09346	99.795
<input type="checkbox"/>	2 NEW ENGLAND JOURNAL OF MEDICINE	347,451	74.699	0.66080	99.697
<input type="checkbox"/>	3 Nature Reviews Materials	12,657	71.189	0.05280	99.678
<input type="checkbox"/>	4 NATURE REVIEWS DRUG DISCOVERY	33,154	64.797	0.04917	99.747
<input type="checkbox"/>	5 LANCET	256,199	60.392	0.43730	99.091
<input type="checkbox"/>	6 WHO Technical Report Series	3,560	59.000	0.00120	99.741
<input type="checkbox"/>	7 NATURE REVIEWS MOLECULAR CELL BIOLOGY	46,307	55.470	0.08232	99.744

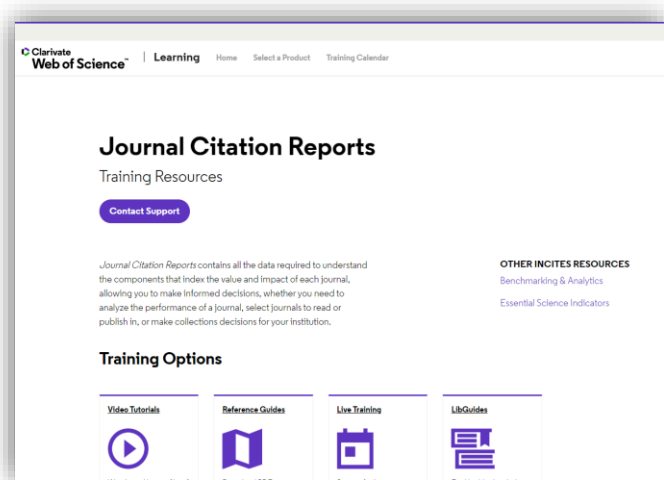
Quickly identify which journals in the sciences and social sciences are cited most often by scholars in over 200 disciplines

Resources for teaching and learning

Stay up to date on product developments, and provide on-demand support for students and faculty

JCR Learning Page

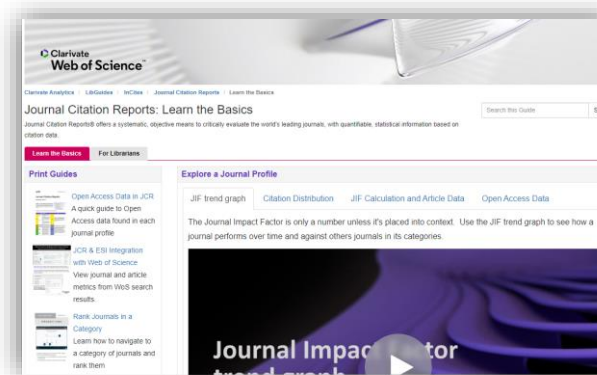
Point students and faculty to “how to” content available 24/7.



[JCR Learning Page](#)

LibGuides

Save time updating your LibGuides by reusing pages from ours.



<http://clarivate.libguides.com/jcr>

Rely on Journal Citation Reports to identify the right journals for your institution



Conduct research evaluation more responsibly with multidimensional journal indicators and context for the numbers



Find the best-fit journals for your manuscript using with a tool that helps you consider audience, topical relevance, open access and citation impact



Ensure that your library collections support rigorous research and teaching using publisher-neutral data produced by objective experts



Obtain the transparency you need to make data-driven decisions about your open access strategy with ease and speed using an intuitive tool