

2020 JOURNAL CITATION REPORTS

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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.

2020 Journal Citation Reports

Follow best practices for research evaluation with multidimensional journal profiles

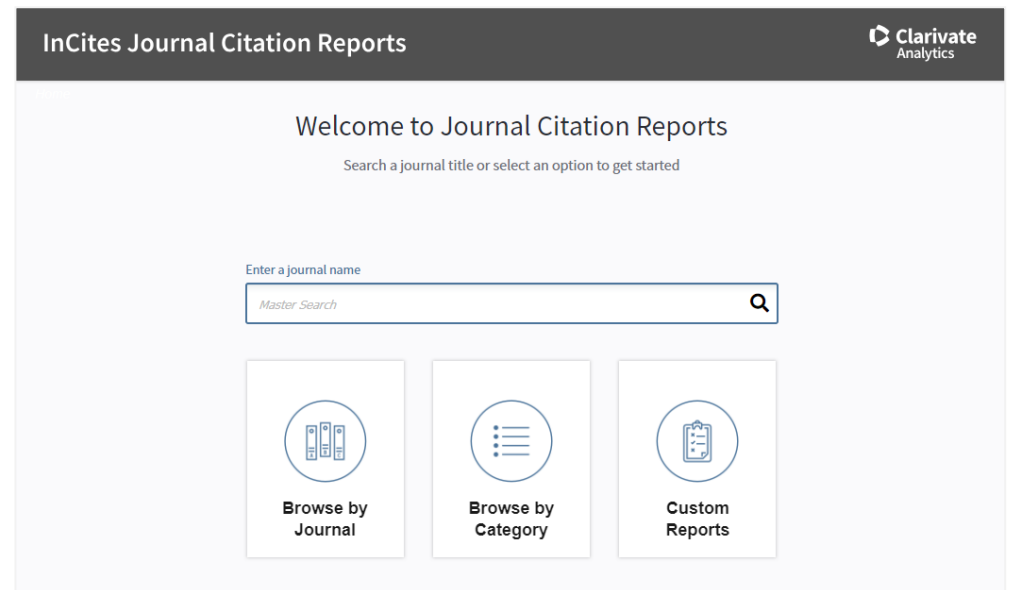


What is the JCR?

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.

AHCI and ESCI journals are not included in the JCR



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

What is the JCR?

Data as of March 23

This date reflects the extraction of data from Web of Science production files. Creating this snapshot allows us to provide full transparency onto the data of the JCR metrics.

Corrections

Please submit correction requests through Customer Care for your region:

<https://support.clarivate.com/s/>. Every request is investigated; if there are updates or corrections needed, these will be reflected in the Autumn update of the JCR. After the update, no further changes can be made.

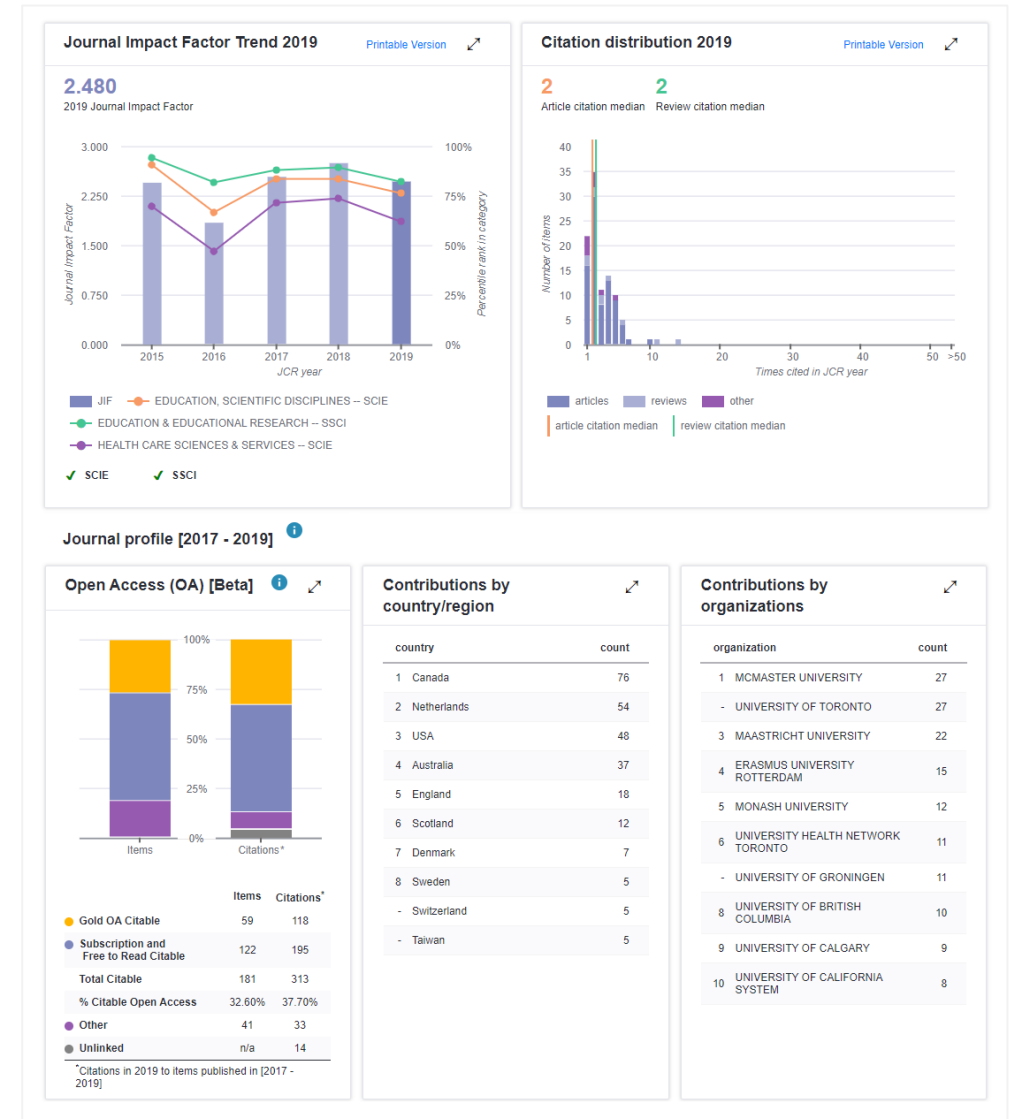
Research Integrity

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

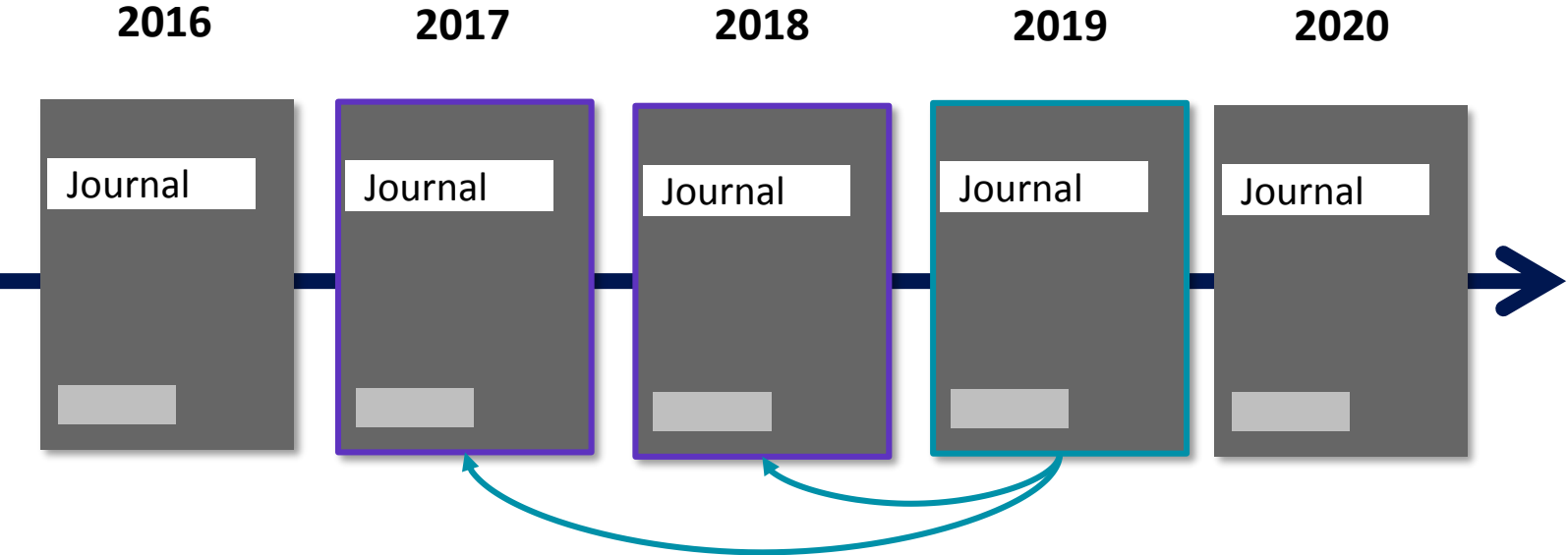
- ✓ Assess journals with multiple indicators and visualizations that provide you with context for the numbers
- ✓ Quickly and easily distinguish the difference between article versus journal metrics.



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



Journal Impact Factor



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?

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

Learn more: [JCR Best Practices](#)

What is the JCR?

NUMERATOR

Citations are drawn only from the Web of Science Core Collection:

- ✓ Science Citation Index Expanded (SCIE)
- ✓ Social Sciences Citation Index (SSCI)
- ✓ Arts & Humanities Citation Index (AHCI)
- ✓ Emerging Sources Citation Index (ESCI)
- ✓ Conference Proceedings Citation Index (CPCI)
 - Science edition
 - Social Sciences and Humanities edition
- ✓ Book Citation Index
 - Science edition
 - Social Sciences and Humanities edition

Citations are NOT drawn from any other Web of Science platform database (e.g. Biosis Citation Index, SciELO, etc.)

DENOMINATOR

COUNTED – Citable Items:

- Original research articles
- Review articles
- Proceedings papers
- Technical notes
- Supplements: full articles will count

NOT COUNTED:

- Editorials
- Discussions
- Meeting abstracts
- Book reviews
- News items
- Letters or Commentaries, unless they function as articles, such as the letters in Physical Review Letters.

Journal Impact Factor

Help your researchers draw better informed conclusions about journal impact

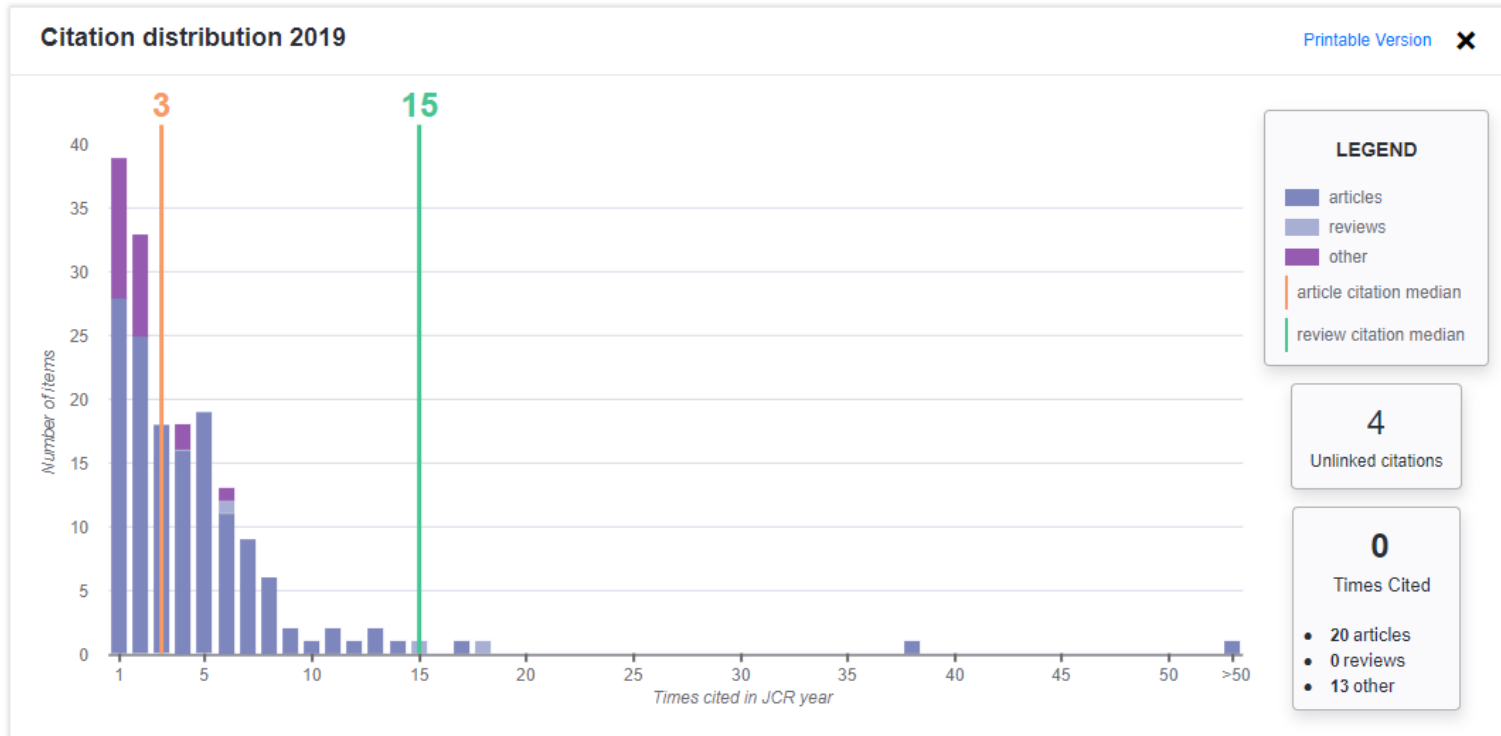


Assess journal performance in context with ready-made visualizations that show a journal's rank and performance over time:

- 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.

Journal Impact Factor

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.

Journal Impact Factor

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.

Journal Impact Factor

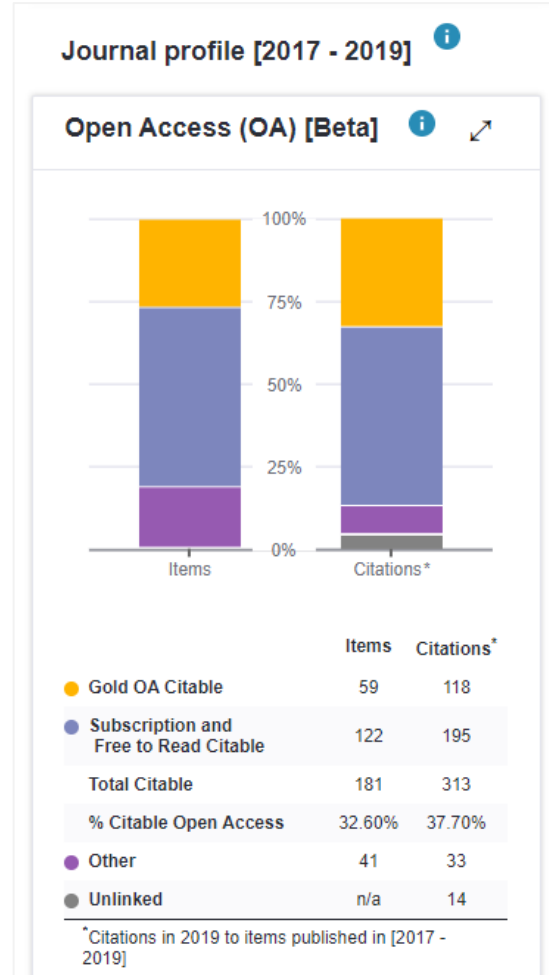
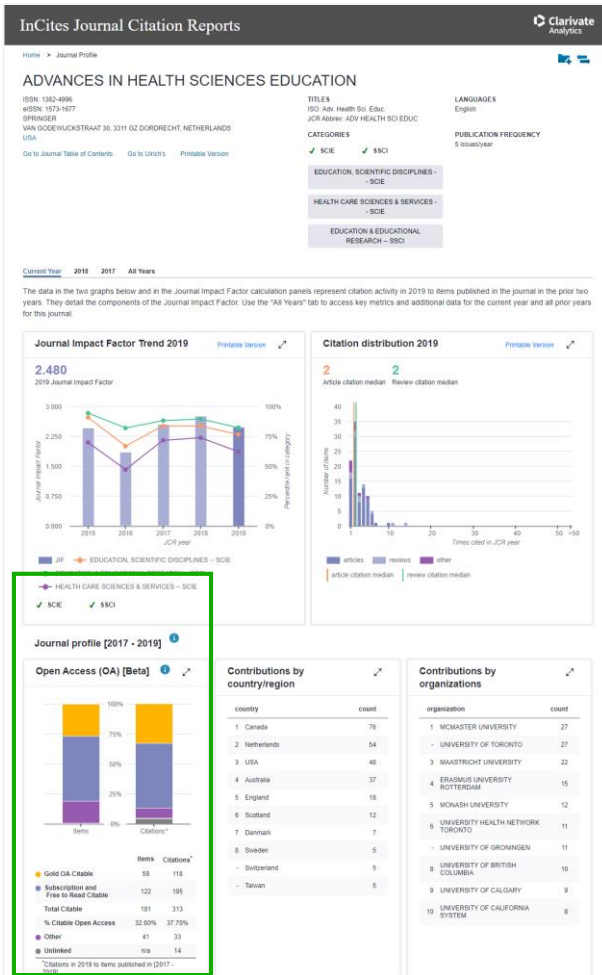
Easily assess a journal's relevance to your research

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 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.

Make confident collections management decisions

Easily understand how open access articles contribute to hybrid journals

Journal Impact Factor Calculation

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

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

Citable items in 2017 and 2016 (24) Citations in 2018 (534) [Show all](#)

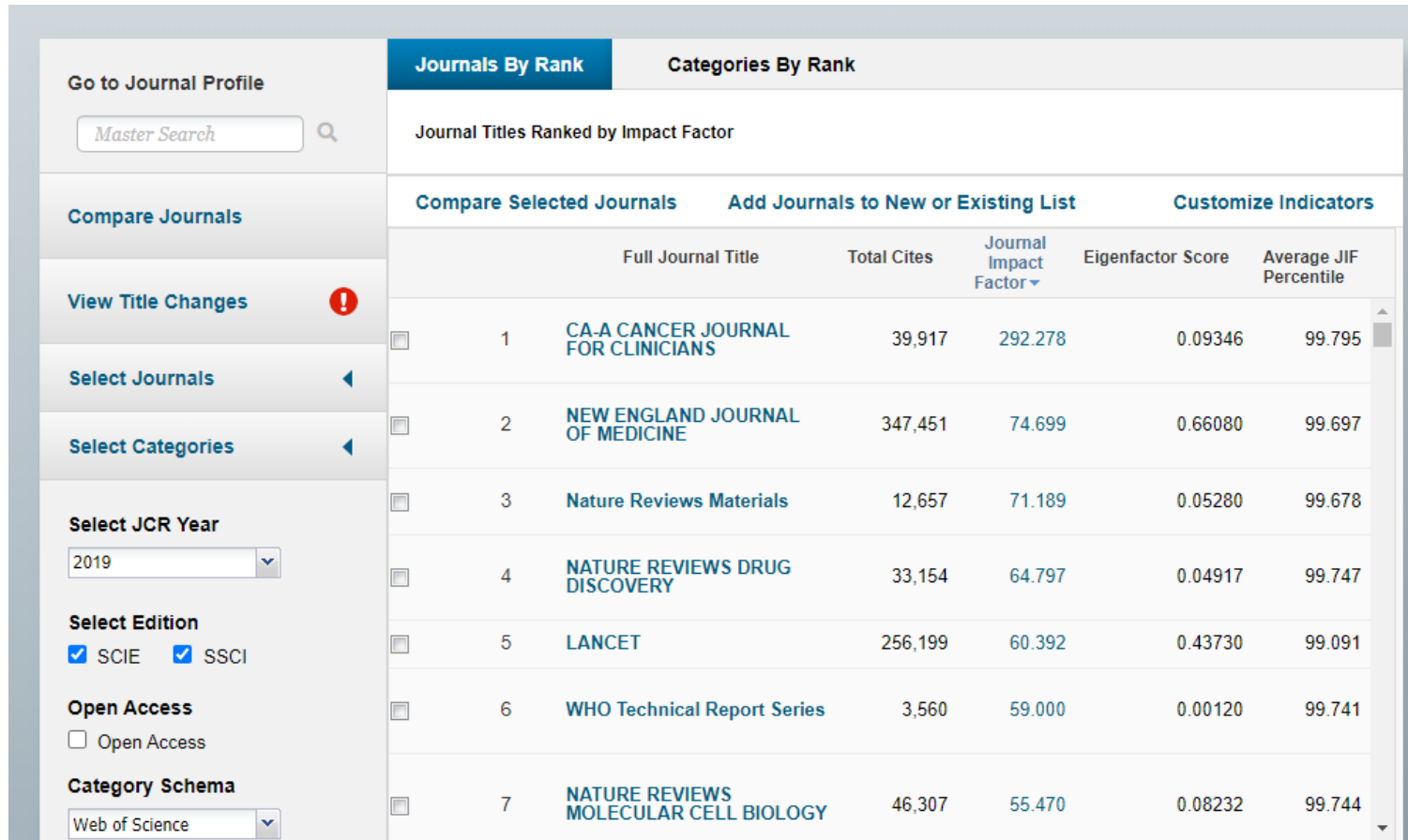
TITLE	CITATIONS COUNTED TOWARDS JIF	OA Status
<p>Metallic glass matrix composites</p> <p>By: Qiao, Junwei; Jia, Haoling; Liaw, Peter K. Volume: 100 Page: 1-69 Accession number: WOS:000370994800001 Document Type: Review</p>	68	OA DOAJ Gold
<p>Recent advances in wearable tactile sensors: Materials, sensing 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	Other Gold
<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	Other Gold
<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 interface. It features a sidebar on the left with navigation options like 'Go to Journal Profile', 'Compare Journals', and 'View Title Changes'. The main 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 top journal is 'CA-A CANCER JOURNAL FOR CLINICIANS' with 39,917 total cites and a JIF of 292.278.

	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.

Rely on Journal Citation Reports to identify the right journals



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

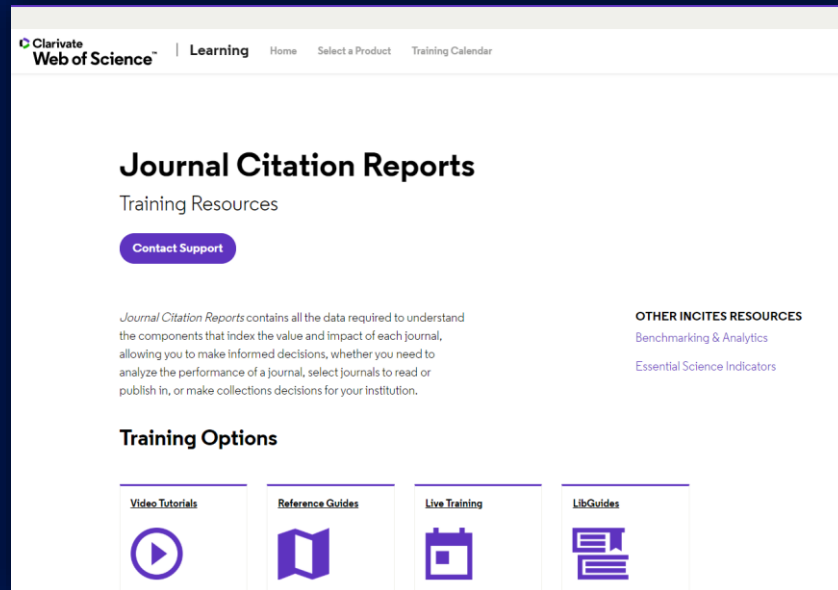


Obtain the transparency you need to make data-driven decisions about your open access strategy with ease and speed using an intuitive tool

Training resources

JCR Learning Page

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

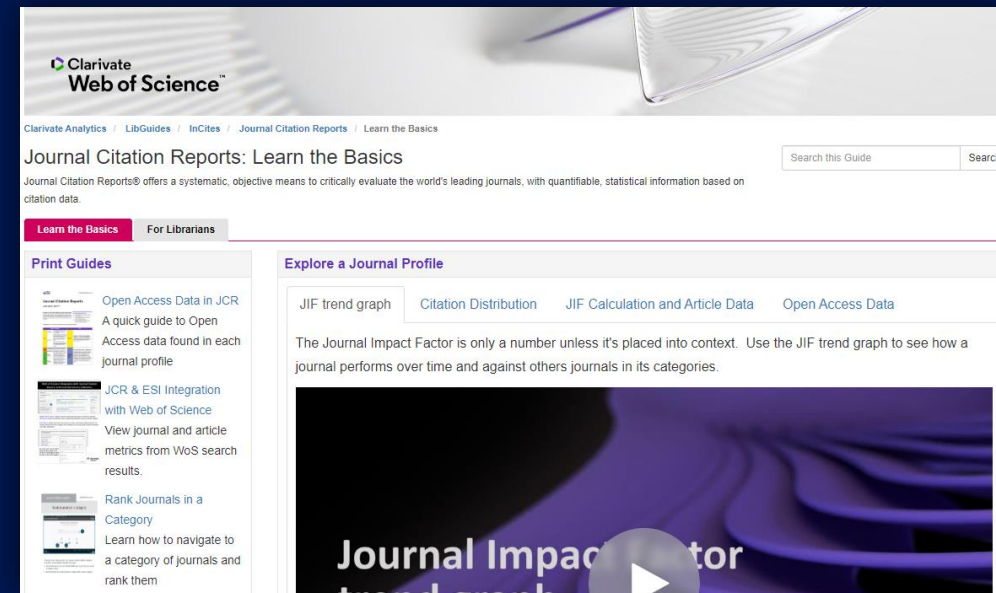


The screenshot shows the 'Journal Citation Reports' training resources page. It features a 'Contact Support' button, a description of JCR, and a section for 'Training Options' with icons for Video Tutorials, Reference Guides, Live Training, and LibGuides. There are also links for 'OTHER INCITES RESOURCES' such as Benchmarking & Analytics and Essential Science Indicators.

[JCR Learning Page](#)

LibGuides

Save time updating your LibGuides by reusing pages from ours.



The screenshot shows a LibGuide page titled 'Journal Citation Reports: Learn the Basics'. It includes a search bar, navigation tabs for 'Learn the Basics' and 'For Librarians', and sections for 'Print Guides' and 'Explore a Journal Profile'. The 'Explore a Journal Profile' section features a 'JIF trend graph' and a video player with the title 'Journal Impact Factor trend graph'.

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

Cursuri Online | Iulie 2020

CUM SE REALIZEAZĂ O REVIZUIRE A LITERATURII

Marți 7 iulie, ora 16.00-17.00

Indiferent dacă scrii un articol sau o disertație, procesul de revizuire a literaturii poate fi descurajant.

Nu ești sigur de unde să începi? Acest webinar te va pune pe drumul cel bun!

Vom prezenta cum se folosește rețeaua de citare pentru a finaliza o căutare completă, salvarea datelor, citarea corectă, și multe altele.

[INREGISTRARE](#)

PERSONALIZEAZĂ EXPERIENȚA WEB OF SCIENCE

Marți 14 iulie, ora 16.00-17.00

Dorești să accesezi Web of Science de oriunde în orice moment, să salvezi căutări, să configurezi alerte sau să conectezi alte aplicații (EndNote, Publons)?

Acest lucru este posibil cu un cont personal Web of Science! Află cum poți personaliza platforma Web of Science în funcție de preferințele tale și cum poți obține accesul la multe funcții utile.

[INREGISTRARE](#)



Vă mulțumesc!

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