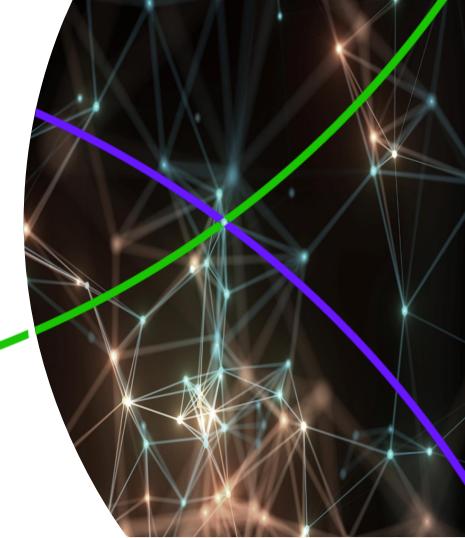
Journal Citation Reports

Your gateway to find the most relevant and impactful journals

Subhasree A. Nag, PhD Solution consultant







Speaker Profile

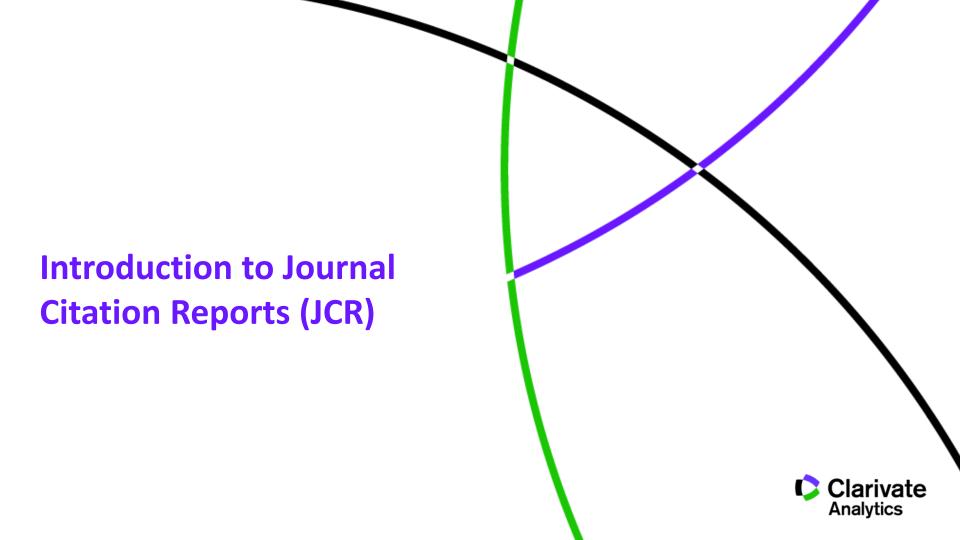
Dr. Subhasree Nag is a solution consultant for the scientific and scholarly research division at Clarivate Analytics. She completed her PhD from Texas Tech University Health Sciences Center, USA and her post-doctoral training from Pacific Northwest National Laboratory, USA where she worked on anticancer drug discovery and pharmacokinetic modeling. She has 25 peer reviewed publications and more than 450 citations. As part of Clarivate Analytics, she is instrumental in carrying out author workshops and designing research capacity building solutions in different institutions all over the country. Her other interests include scientometrics and bibliometric evaluation



Agenda

- Introduction to Journal Citation Reports (JCR)
- Different User Persona
- Journal Evaluation using JCR
 - -Impact Factor
 - -Additional Evaluation Metrics
- Understanding Citation Patterns
- Using JCR-Best Practices
 - -Informed Library Purchase Decisions
 - -Selecting Right Journal for Publications
- The JCR Journal Selection Process
- Conclusion





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.
- All journals in JCR are sourced from two indexes:
 - Science Citation Index Expanded
 - Social Sciences Citation

 Index
 - Data goes back to 1997
- Citations are sourced from all indexes in the Core Collection
- Data represents a snapshot in time-Metrics in 2018 are sourced from data published in 2017



2018 JCR



additional titles

Journal Intelligence

The JCR is more than just the Impact Factor. New descriptive and contextual information helps you gain a comprehensive picture of a journal's role in the network of scholarly communication.

Transparency

- With new article-level data, you have a clearer understanding of the quality of the articles included in the journal as well as the relationship between the article and the journal.
- You can see *through* the data to a more nuanced consideration of journal value.

Editorial Expression of Concern

Evolution of JCR

1975 JCR is launched with SCI

1978 SSCI edition added to JCR 1979 A&H *citations* added 2008
Proceedings
indices
citations added

2016 ESCI *citations* added 2018 BKCI *citations* added

The JCR Story

Journal Intelligence

 Journal metrics and indicators (Journal Impact Factor) with descriptive and contextual information.

Transparency

- See through the data to a more nuanced consideration of journal value.
- Granular article-level data that explains quality of the articles included in the journal

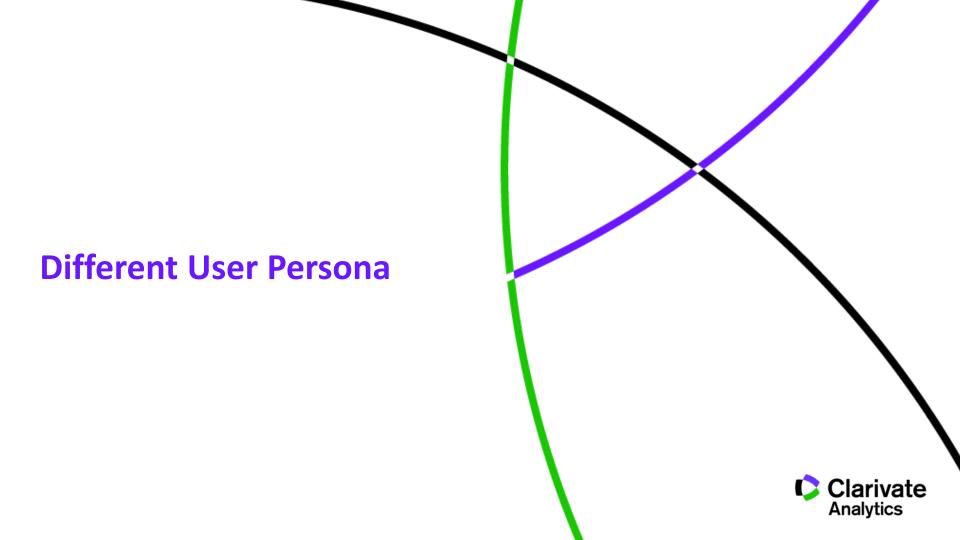
Exhibits Journal value

• See the reciprocal relationship between the quality of a journal *and* the quality of its content. Good articles make for a good journal, and a good journal enhances a good article.

Clarivate Analytics is publisher-neutral- No conflict of Interest







JCR and its role in Scientific Research



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

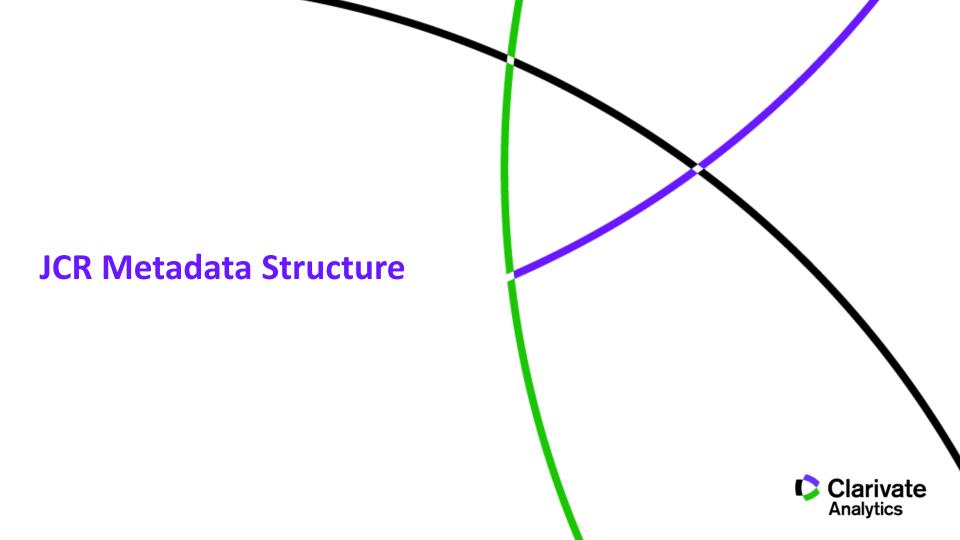
 Dive deeper into the JCR data with our downloadable cited and citing data tables, as well as the full data and metrics files, to understand how disciplines interconnect in the citation network.



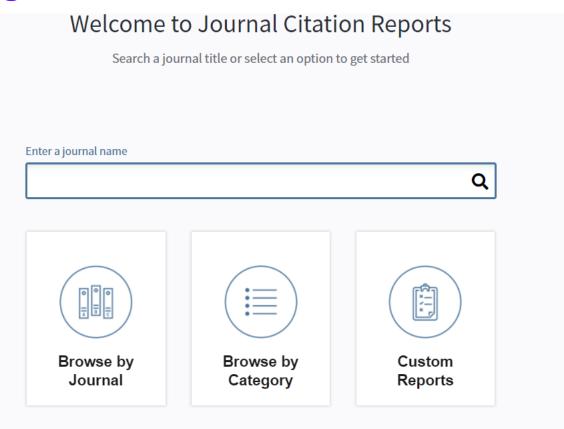
Researchers

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





Landing Page





Journal Profile Page

Journal information

JIF context

Citation impact profile

JIF calculation details

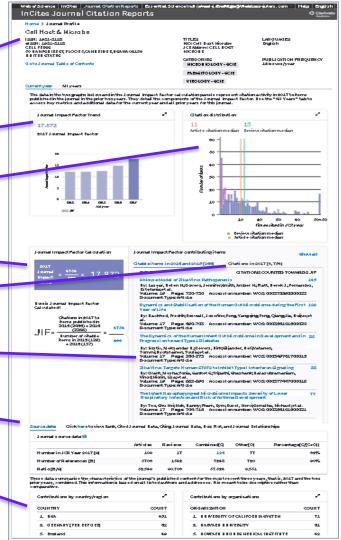
Fully transparent article data

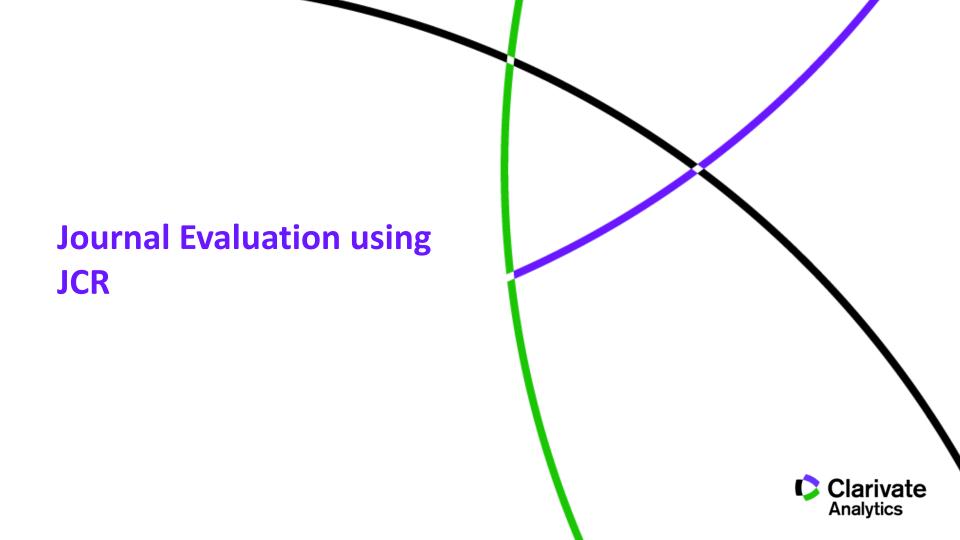
Top-cited items in JIF

Current year information

Journal descriptor (3 years)

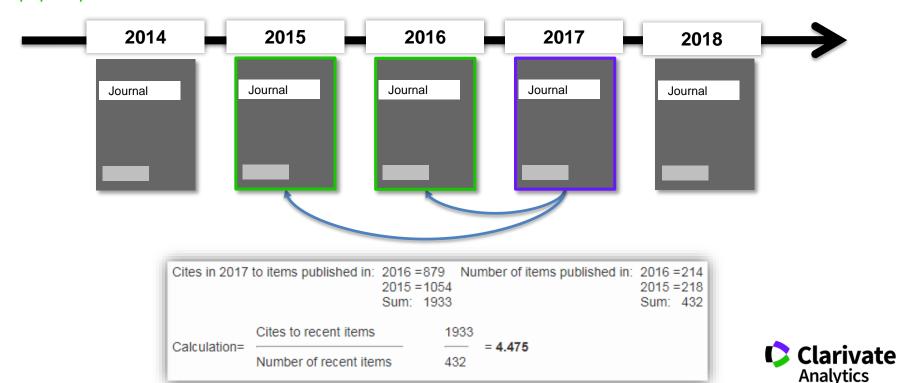
Web of Science
Trust the difference



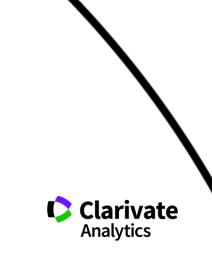


Journal Impact Factor reflects a JOURNAL's overall performance

2017 Impact Factor: Ratio of citations from 2017 to papers published in 2015 and 2016 to papers published in 2015 and 2016



Using Journal Impact Factor scores as a measure (or proxy) of performance for individual papers or authors represents IMPROPER USE of the metric in research evaluation.



Impact Factor Transparency

See a three-dimensional view of a journal by drilling down into the underlying data behind an Impact Factor.

Energy & Environmental Science

ISSN: 1754-5692
eISSN: 1754-5692
ROYAL SOC CHEMISTRY
THOMAS GRAHAM HOUSE, SCIENCE PARK, MILTON RD, CAMBRIDGE CB4
OWF, ENGLAND, CAMBS
ENGLAND

Go to Journal Table of Contents

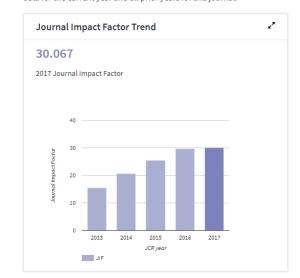
All years

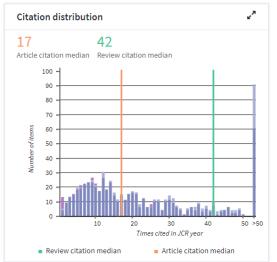


ENVIRONMENTAL SCIENCES - SCIE

Current year

The data in the two graphs below and in the Journal Impact Factor calculation panels represent citation activity in 2017 to items published in the journal in the prior two years. They detail the components of the Journal Impact Factor. Use the "All Years" tab to access key metrics and additional data for the current year and all prior years for this journal.

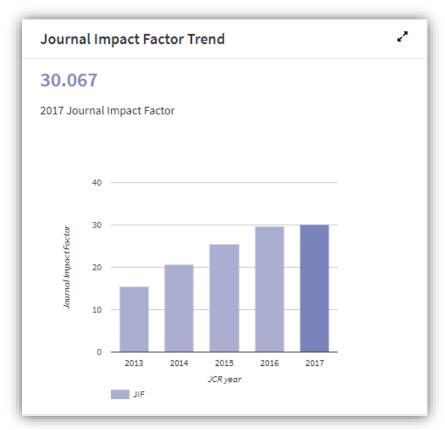




Journal Impact Factor Calculation

Journal Impact Factor contributing items

Impact Factor Trend Graph



Viewing a journal's Impact Factor for the current year in the context of its performance over time helps you understand whether a journal's influence in the literature is growing or declining.

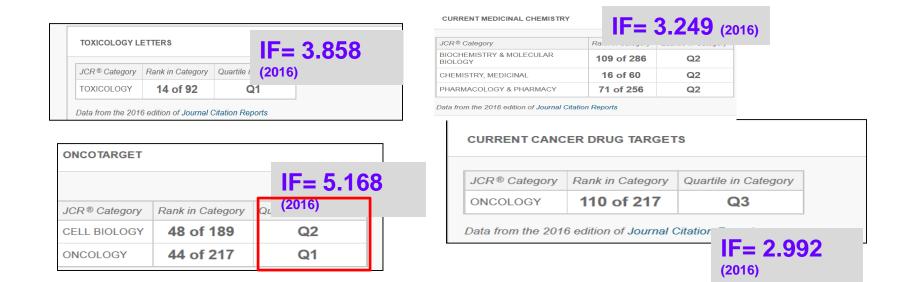
The example at left, for *Energy & Environmental Science*, shows that this journal has been steadily growing in influence over the past 5 years.





Impact factor vs Rank in Category

- •The impact factor is just an absolute number calculated using a simple mathematical formula based on the ratio of the number of citations of the journal's articles on the number of total citable articles published by that journal.
- •One particular limitation is that certain fields are very specialized and may not receive that many citations. Thus, an absolute number may not be the best metric to gauge the importance of that journal in a particular field.
- •On the other hand, <u>JCR rankings</u> in a category tell researchers the impact of the journal in that research category.
- •Each journal can have <u>different ranks in different categories</u>. Based on the target audience and focus of the paper, researchers can decide in which journal to publish.



JCR Metrics-Much more than Impact Factor How guickly articles in a

How quickly articles in a journal are cited???

Measure of "cutting-edge"-ness

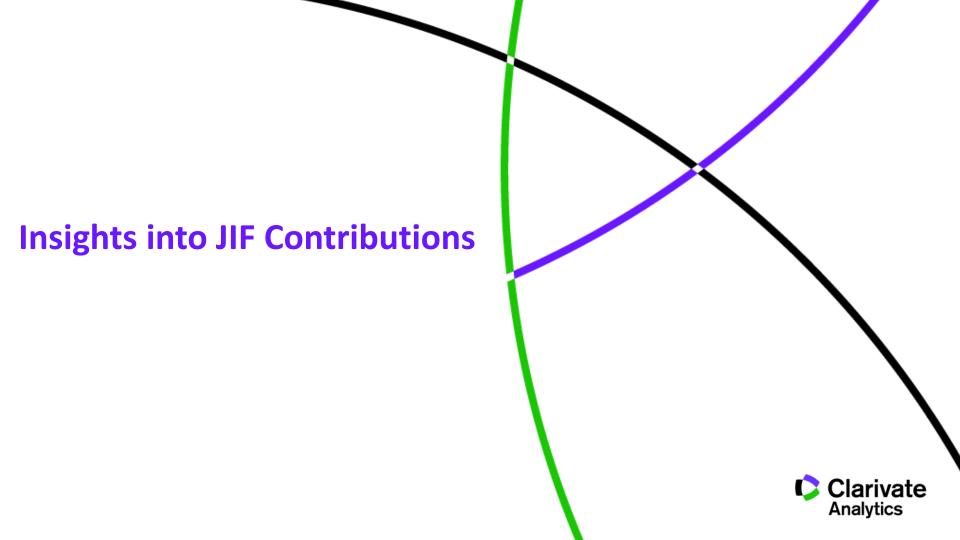
How influential is the journal?

More higher impact journals cite
its articles, more is the

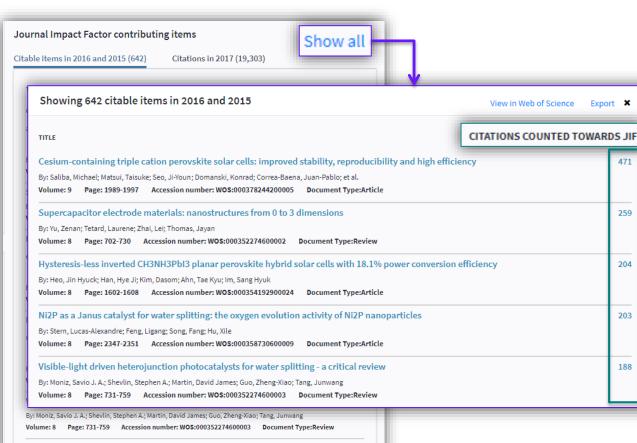
Eigenfactor

16 1	P. 4												
Key Inc	dicators												
Year ▼	Total Cites <u>Graph</u>	Journal Impact Factor <u>Graph</u>	Impact Factor Without Journal Self Cites	5 Year Impact Factor Graph	Immediacy Index <u>Graph</u>	Citable Items Graph	Cited Half- Life Graph	Citing Half- Life <u>Graph</u>	Eigenfacto Score <u>Graph</u>	Article Influence Score Graph	% Articles in Citable Items Graph	Normalized Eigenfacto <u>Graph</u>	
			Graph										
2016	84,383	7.504	6.753	7.823	1.146	4,057	2.6	4.8	0.21632	1.581	99.53	24.80	89.48
2015	54,997	7.145	6.377	7.332	1.180	3,350	2.4	4.8	0.14766	1.462	99.37	16.83	87.34
2014	32,234	6.723	5.867	6.813	0.991	2,762	2.3	4.9	0.09406	1.373	99.64	10.53	88.48
2013	16,373	5.900	5.180	5.908	0.768	1,781	2.4	4.9	0.05402	1.279	99.38	5.95363	84.30
2012	8,635	5.008	4.539	5.040	0.683	953	2.3	5.2	0.03651	1.321	99.90	Not A	82.02
2011	4,646	4.525	4.097	4.540	0.713	666	1.9	5.4	0.02145	1.277	100.00	Not A	81.03
2010	1,482	2.925	2.492	2.925	0.597	516	1.4	5.5	0.00684	0.881	99.81	Not A	73.30
2009	191	Not A	Not A	Not A	0.455	400	0.5	5.5	0.00001	Not A	98.25	Not A	0.7





Citable Items in 2015 and 2016



View a complete list of all citable items in the Impact Factor denominator.

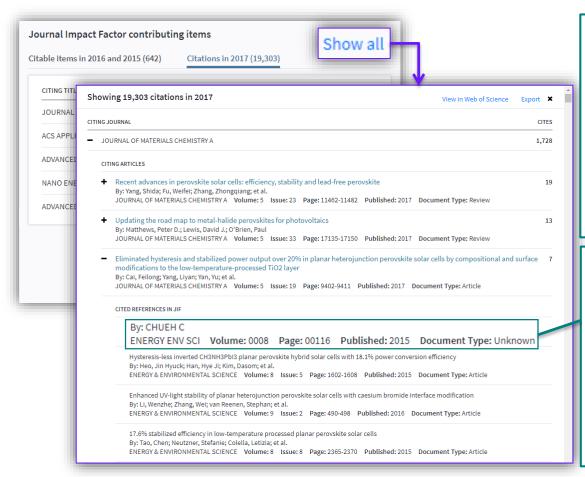


Citation counts for citable items reflect the number of times each item was cited by papers published in 2017 at the time of ICR data extraction.

When you click out to view papers in the Web of Science, citation counts will be higher, reflecting current counts of citations from all years.



Citations in 2017



View a complete list of all 2017 papers that have cited this journal, contributing to the Impact Factor numerator.

Use the + and – signs to navigate.

For each citing paper, you can examine the cited references. Each cited reference counts as 1 in the JCR numerator.

What is "Document Type: Unknown"?

A small number of citations can be attributed to the journal, but contain incomplete or incorrect bibliographic data— the exact article being cited is ambiguous.

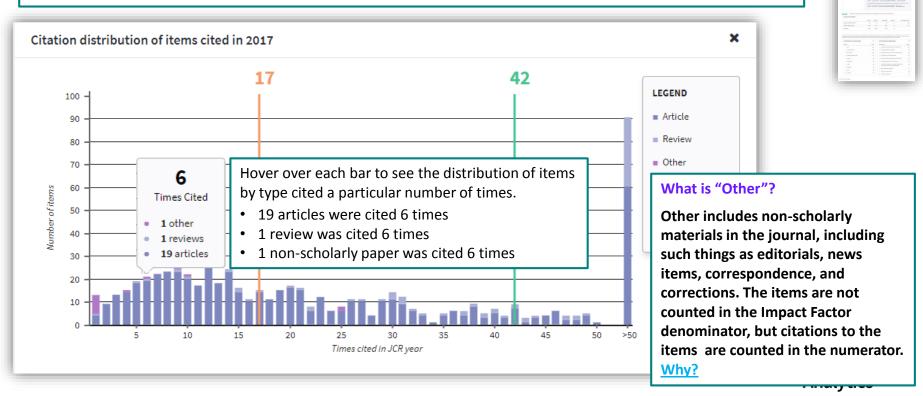
Such citations are designated "unknown": unlinked to a specific article in the Core Collection.



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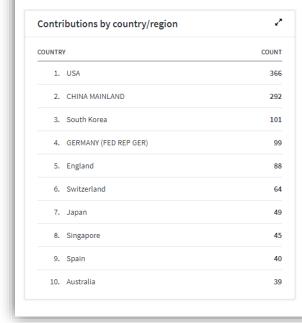
Histogram: Overview

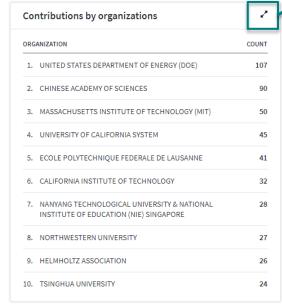
Each bar on the graph represents the number of citable items in the journal that have accrued a particular number of citations in 2017. All graphs display 1-50 citations, plus one bar for papers with more than 50 citations.



Contributions by Country & Region

These data summarize the characteristics of the journal's published content for the most recent three years, that is, 2017 and the two prior years, combined. This information is based on all listed authors and addresses. It is meant to be descriptive rather than comparative.

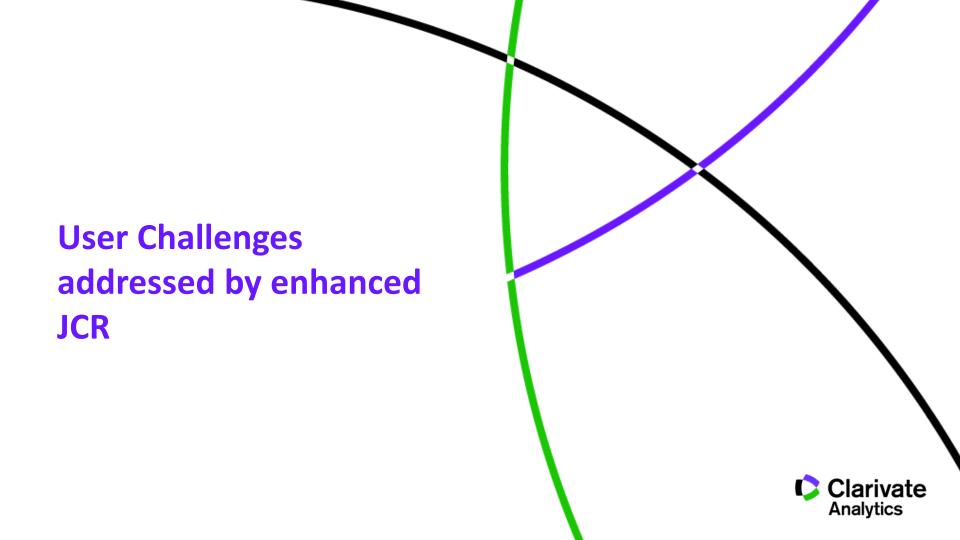




Expand each list to see the top 50 countries or institutions contributing to this journal in the past 3 years.







Informed Library Purchase Decisions



Librarian Challenge: : I need to understand what journals are the most important to our researchers' success.

- •See *detailed data on the content, regions, and institutions* that create that impact, including your articles, your authors
- •Understand citation half lives to decide number of years of backfiles needed

Librarian Challenge: Select the best collection of relevant journals given budget constraints

•Do an evidence based appraisal of journal titles using JCR metrics to decide **best fit journals for your institution**

Librarian Challenge: I need to help my researchers and my institution highlight their impact in the research community.

JCR lets you see the impact your researchers had ON that journal.



Journal Selection and Increasing Research Visibility



Researcher Challenge: I need to find the best fit journal for my manuscript.

- •See if your article's content aligns with the content and audience of the journal
- See most-cited articles
- •Understand *community of researchers* that build the impact of each journal
- •Contributions by country/region gives you a view of the national or international range of the authors.

Researcher Challenge: I need to show my contributions to my research field.

- <u>See Top-cited articles in the JIF</u> (JIF denominator)
- •Understand contribution of <u>Top-cited articles</u> through the <u>citation distribution graph</u>.
- Individual articles can be compared to the median to see if you are well-placed in the journal.





Journal Selection Process and Editorial Board

Journal Publishing Standards

- Timeliness of publication
- Ethics

- Editorial
- Is this subject already well covered?
- Will this journal enrich WoS with novel content?

Internation al Diversity

Content

 Does this journal target an international audience or specifically a regional audience?

Citation Analysis

- Total citations
- Recent citation activity

- Around 150 years of experience in their roles
- 12 master's degrees
- Full time positions



No conflicts of interest

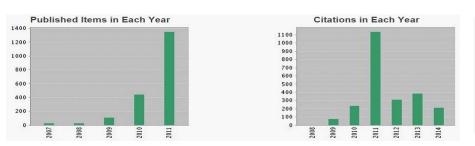


Web of Science: Quality Checks Galore

Web of Science Core Collection:

- •Biweekly meetings (They discuss their findings and opinions about the journals they assessed)
- •10-12% Acceptance Rate

We pay particular attention to existing content and constantly monitor our indexed journals. This actually gets bigger and bigger. It is not uncommon that journals that were once promising and strong lose quality and timeliness, or even morph into predatory practices.



Example:

"African Journal Of Business Management" Added in 2007, monitored, then removed in 2011



Conclusion

- Streamline your library purchase and inventory by making evidence based decisions using JCR metrics
- Understand citation relationships between journals
- Educate researchers on appropriate journals for publishing
- Highlight research impact of your organization
- Avoid reputational risk of publishing in predatory journals
- Increase research visibility

