

Develop your Research Strategy with InCites Benchmarking & Analytics and Journal Citation Reports

Ahmed Alaa

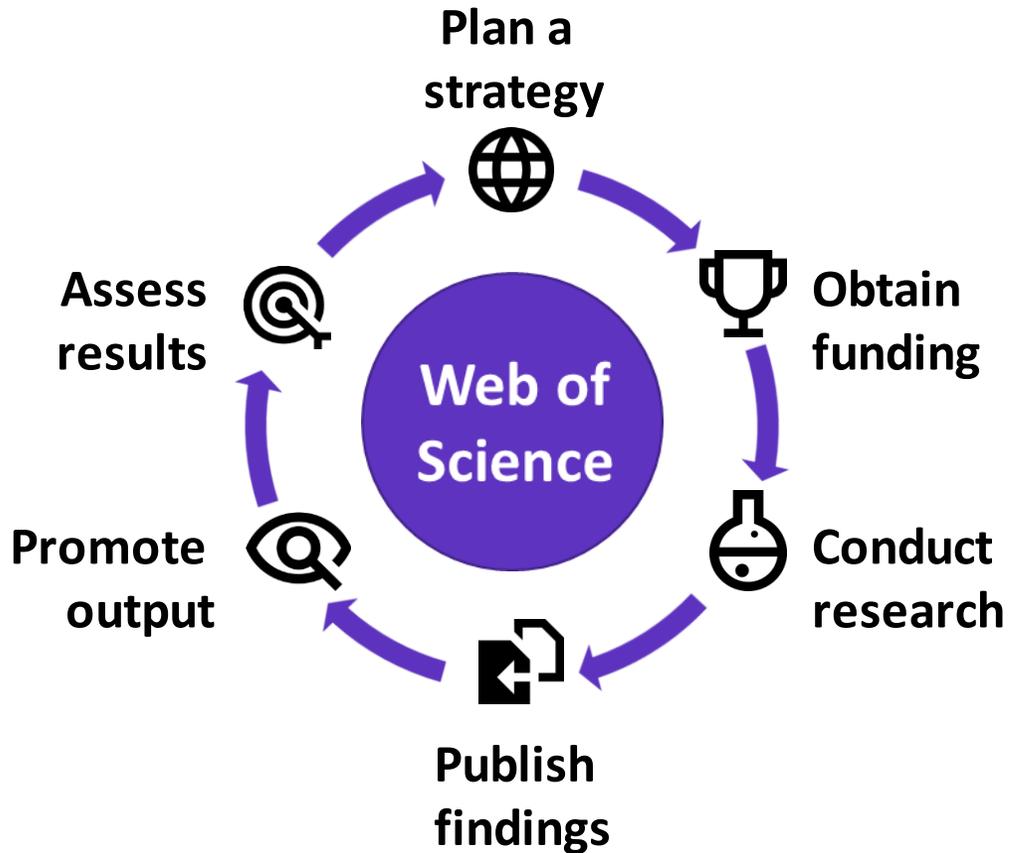


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Managing the research workflow

How is your university achieving its goals?



- How do you know if faculty are pursuing novel topics?
- Is your institution missing opportunities?
- Are students and faculty using the best available research?
- Are your collaborating effectively?
- Are your funding applications as competitive as they could be?
- Is your institution's Open Access policy working?
- Are you well positioned to negotiate transformative agreements with publishers?
- How do you demonstrate your institution's value to stakeholders?
- How well does your institution capitalize on research that has commercial potential?

Few solutions



Web of Science

Discover the latest research and how it fits into the world's network of ideas, people, funders and institutions with a publisher-neutral citation index trusted by leading research institutions around the world for decades.



Publons

Get your research and scholarly contributions noticed by publishers, peers, and the world at large, or learn to peer review.



Journal Citation Reports

Make confident decisions about where to submit your manuscript with the world's most influential and trusted resource for evaluating peer-reviewed journals.



EndNote

Save time authoring papers, even when you're collaborating with a large team.



ESI Research Fronts

Identify the emerging research areas where your institution is well positioned to make the next breakthrough.



InCites Benchmarking & Analytics

Benchmark your institution's research output against peers worldwide, identify collaborators and assess your departments and faculty with field weighted citation metrics.



Essential Science Indicators

Identify emerging science trends as well as influential individuals, institutions, papers, journals, and countries across 22 categories of research.



Kopernio

Quickly access millions of high-quality research papers with a single mouse click.

Using Metrics Wisely

Research evaluation is increasingly being conducted using bibliometric methodology and citation analysis. Because no individual bibliometric indicator can account for all aspects of research performance, it is recommended that selections of bibliometrics indicators are utilized to provide a broader view and to discover any data artifacts.

Clarivate Analytics InCites supports a comprehensive class of advanced bibliometric indicators assessing various aspects of research performance.

See our [Alphabetical List of Indicators](#) for specifics about each InCites metric, including:

- What the indicator measures
- How it is calculated
- What is its value and role in the process of research performance evaluation?
- Guidance for appropriate usage

What is JCR?

- Journal Citation Reports (JCR) is the most powerful product for journal intelligence.
- It provides researchers with a definitive list and guide to discover and select the most appropriate journals to read and publish findings.
- JCR delivers a rich array of publisher-independent data, metrics and analysis throughout tens of thousands of journal profile pages, all of which are powered by the meaningful connections of citations created by the research community.
- This subscription-based product is the most comprehensive and trusted tool that researchers and organizations use to confidently find and assess journals.

The sources of the Journal Impact Factor

Web of Science Core Collection

- Science Citation Index Expanded
- Social Sciences Citation Index

- Arts & Humanities Citation Index
- Emerging Source Citation Index
- Conference Proceedings Citation Index
 - Science
 - Social Science & Humanities
- Book Citation Index
 - Science
 - Social Science & Humanities



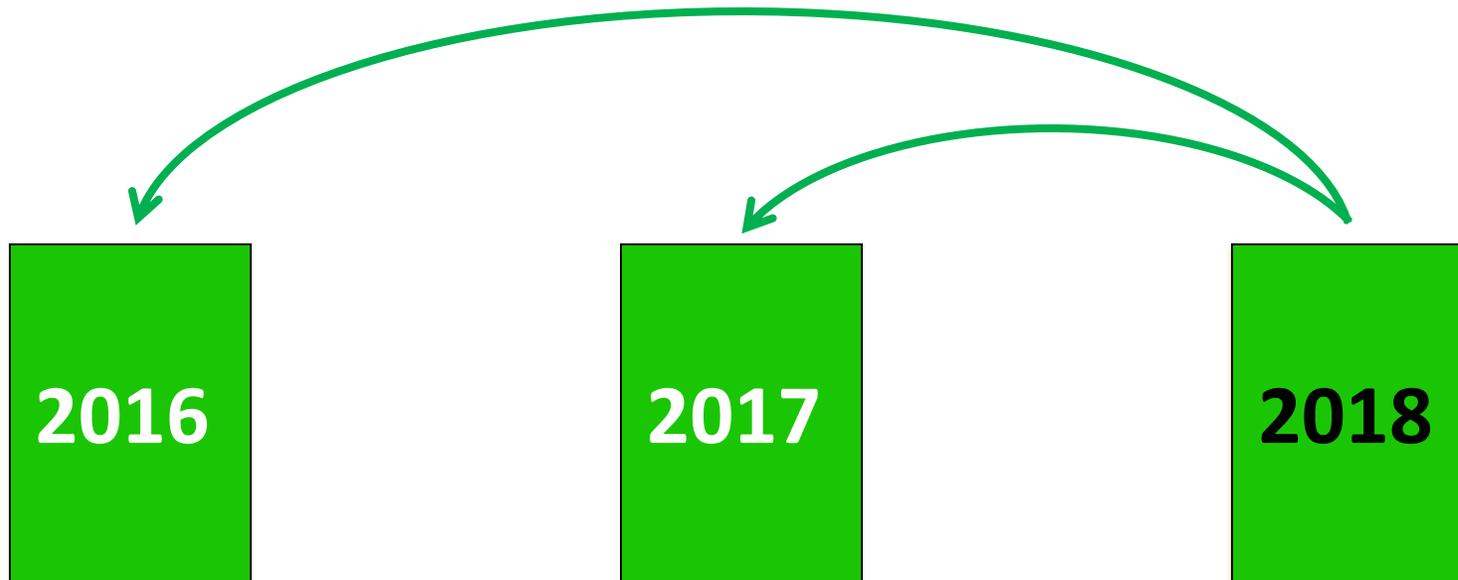
Impact Factor reported annually in the Journal Citation Reports

NO Impact Factor

The Impact Factor

The impact factor is a measure of the frequency with which the average article in a journal has been cited in a particular year. The JCR also lists journals and their impact factors and ranking in the context of their specific field(s).

$$IF_{2018} = \frac{\text{Citations in 2018 to all items published in years 2016 and 2017}}{\text{Articles \& reviews published in 2016 and 2017}}$$



Categories/Quartiles

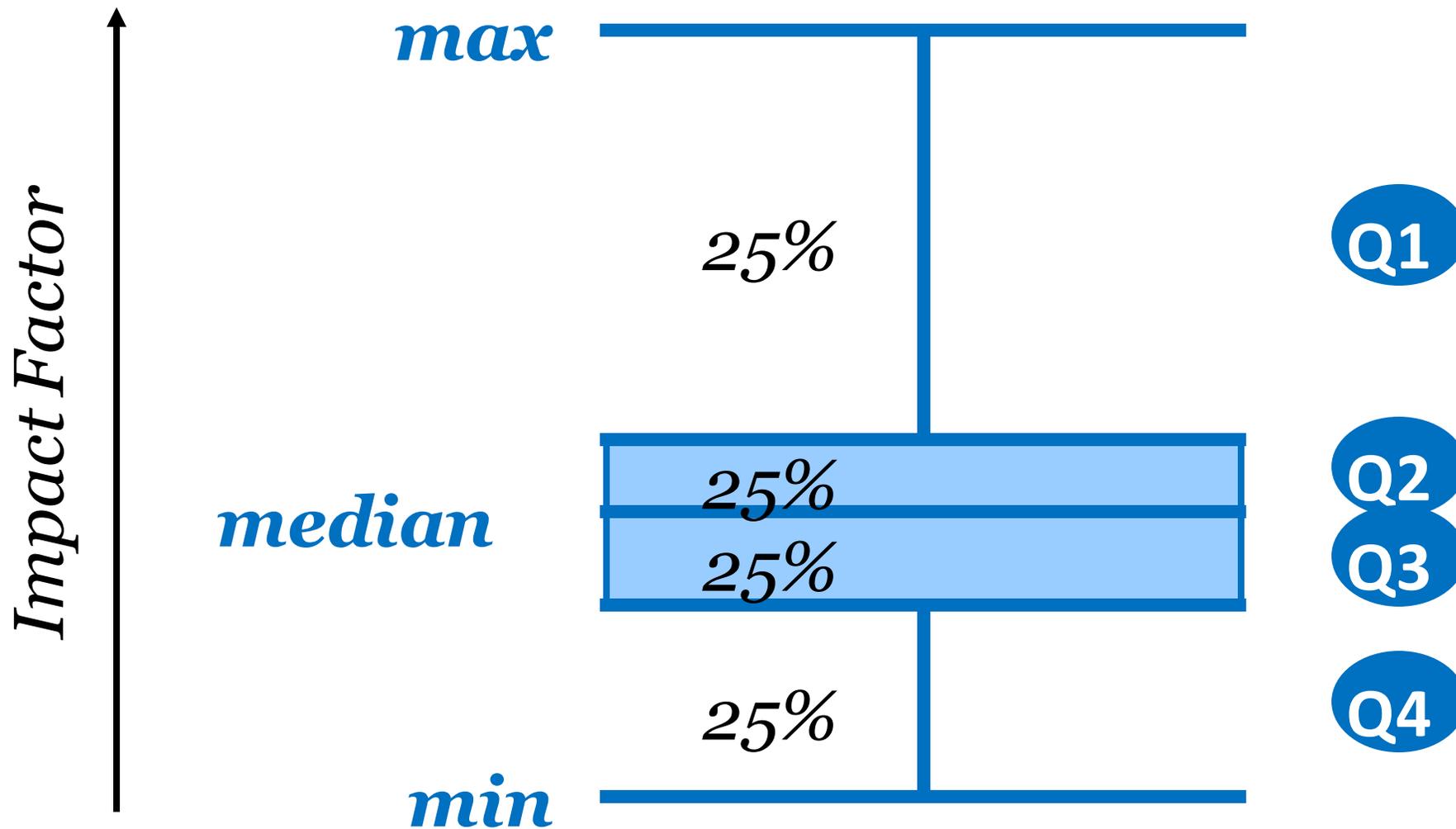
	Full Journal Title	ISSN	Total Cites	Journal Impact Factor ▼
1	NATURE MEDICINE	1078-8956	65,230	30.357
2	Science Translational Medicine	1946-6234	17,066	16.264
3	JOURNAL OF CLINICAL INVESTIGATION	0021-9738	101,063	12.575
4	JOURNAL OF EXPERIMENTAL MEDICINE	0022-1007		
5	Annual Review of Medicine	0066-4219		

← Q1

	Full Journal Title	ISSN	Total Cites	Journal Impact Factor ▼
1	MARINE STRUCTURES	0951-8339	1,002	1.729
2	OCEAN ENGINEERING	0029-8018	4,738	1.488
3	JOURNAL OF NAVIGATION	0373-4633	853	1.267
4	Proceedings of the Institution of Mechanical Engineers Part M-Journal of Engineering for the Maritime Environment	1475-0902	244	0.902
5	Ships and Offshore Structures	1744-5302	293	0.790

← Q1

Categories/Quartiles



A journal could have multiple subject areas and thus different quartiles

PLANT FOODS FOR HUMAN NUTRITION

JCR Year ↕	PLANT SCIENCES -- SCIE			CHEMISTRY, APPLIED -- SCIE			FOOD SCIENCE & TECHNOLOGY -- SCIE			NUTRITION & DIETETICS -- SCIE		
	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile
2018	60/228	Q2	73.904	22/71	Q2	69.718	40/135	Q2	70.741	51/87	Q3	41.954
2017	60/223	Q2	73.318	24/72	Q2	67.361	39/133	Q2	71.053	50/83	Q3	40.361
2016	58/212	Q2	72.877	23/72	Q2	68.750	31/130	Q1	76.538	44/81	Q3	46.296
2015	59/209	Q2	72.010	22/72	Q2	70.139	31/125	Q1	75.600	42/80	Q3	48.125
2014	64/204	Q2	68.873	21/72	Q2	71.528	35/123	Q2	71.951	50/77	Q3	35.714
2013	55/199	Q2	72.613	16/71	Q1	78.169	27/123	Q1	78.455	41/79	Q3	48.734
2012	54/197	Q2	72.843	18/71	Q2	75.352	26/124	Q1	79.435	32/76	Q2	58.553
2011	51/190	Q2	73.421	15/71	Q1	79.577	19/128	Q1	85.547	28/74	Q2	62.838

Live Product Demo

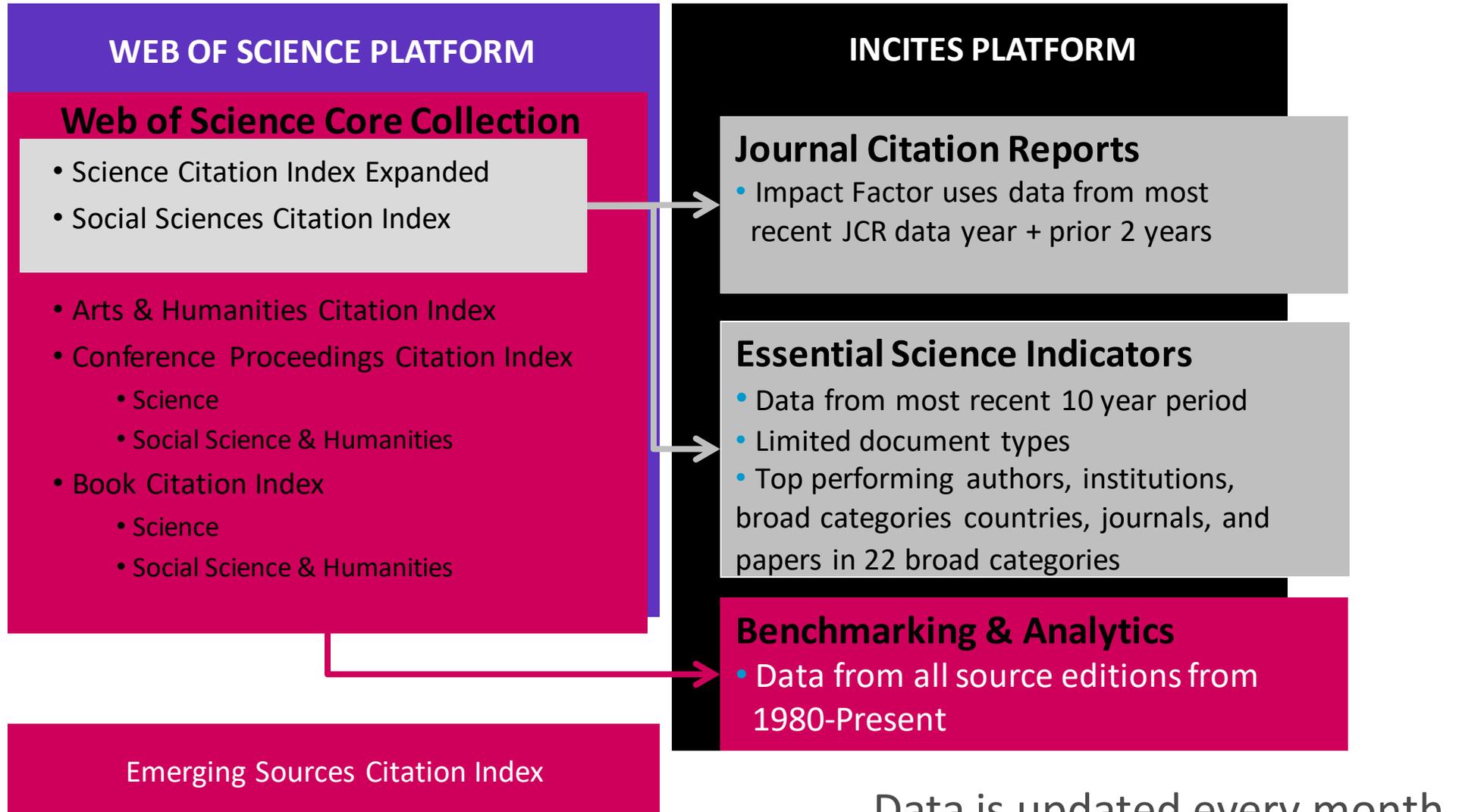
Institutional Analysis in InCites

- What are our research **strengths and weaknesses**?
- How do we **compare** to other organizations in terms of research output and impact?
- What **measures** can we use to report our research impact to our funders or managers?
- And more!

InCites: Benchmarking & Analytics

- InCites Benchmarking & Analytics allows you access to article level performance metrics from Web of Science Core Collection data 1980-present.
 - Benchmark institutions and researchers to peers using a wide range of **Absolute and Normalized** metrics
 - Identify top performing researchers from *any institution*
 - Easily **visualize** the data within the application
 - Organize information into relevant **dashboards and reports**
 - Leverage **curated reports** for easy start-up

InCites & Web of Science Core Collection



Context is crucial

Citation rates vary among fields. A good or average h-index for a researcher in Mathematics will be very different from an average h-index for a Biochemistry researcher.



23.3 cites/paper
H-index: 13



14.5 cites/paper
H-index: 7



9.8 cites/paper
H-index: 7



4.2 cites/paper
H-index: 3

How “good” is this? What is the context?

Additional metrics are needed to understand research performance.

Benchmarking & Analytics Indicators

Comparison 'like with like'



Productivity And Impact	Normalization	Top Performance	Scientific Collaborations	JIF Documents
Web of Science Documents	Category Normalized Citation Impact	% Documents in Top 1%	% Industry Collaborations	Documents in JIF Journals
Times Cited	Category Expected Citations	% Documents in Top 10%	% International Collaborations	Documents in Q1 Journals
Citation Impact	Journal Normalized Citation Impact	Average percentile	Collaborations with Organizations	Documents in Q2 Journals
% of documents cited	Journal Expected Citations	Highly Cited Papers	Collaborations with Countries	Documents in Q3 Journals
H Index		Hot Papers	Collaborations with Authors	Documents in Q4 Journals

Benchmarking and Analytics Indicators

- **Productivity**
 - Web of Science Documents
 - *Number of Web of Science Documents*
- **Total Influence**
 - Times Cited
 - *Number of times the set of publications has been cited*
 - H-index
 - *Number of papers, “h”, that have been cited at least “h” times*
- **Efficiency**
 - Citation Impact
 - *Average (mean) number of citations per paper*
 - % Documents Cited
 - *Percentage of publications that have been cited one or more times*

Benchmarking and Analytics Indicators

- **Relative Impact**

- **Category Normalized Citation Impact**

Citation impact (citations per paper) normalized for subject, year and document type

- **Journal Normalized Citation Impact**

Citation impact (citations per paper) normalized for journal, year and document type

- **Average Percentile**

Average (mean) of the percentiles for all publications

- **% Documents in Top 1%**

Percentage of publications in the top 1% based on citations by category, year, and document type

- **% Documents in Top 10%**

Percentage of publications in the top 10% based on citations by category, year, and document type

Benchmarking and Analytics Indicators

- **Collaborations**
 - International Collaborations
 - *Papers that contain one or more international co-authors*
 - % International Collaborations
 - *Percentage of publications that have international co-authors*
- **Institution Profile Indicators**
 - <https://clarivate.com/products/incites/>

Normalized Indicators

Pettersen, E. F., Goddard, T. D., Huang, C. C., Couch, G. S., Greenblatt, D. M., Meng, E. C., et al. (2004). UCSF chimera - A visualization system for exploratory research and analysis. [Article]. *Journal of Computational Chemistry*, 25(13), 1605-1612.

Source	Volume	Issue	Pages	Publication Date	Times Cited ▼	Journal Expected Citations	Category Expected Citations	Journal Normalized Citation Impact	Category Normalized Citation Impact
JOURNAL OF COMPUTATIONAL CHEMISTRY	25	16	1605-1612	2004	5,312	95.82	29.33	55.44	181.12

Average number of citations to documents of the same document type from the same journal in the same database year

Average number of citations to documents of the same document type in the same category in the same database year



Live Product Demo



 | A Clarivate Analytics company

Thank you

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