Journal Citation Reports

*Define your publication strategy*

Jamal EL OUAHI
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

<table>
<thead>
<tr>
<th>Full Journal Title</th>
<th>ISSN</th>
<th>Total Cites</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nature Medicine</td>
<td>1078-8956</td>
<td>65,230</td>
<td>30.357</td>
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<tr>
<td>Science Translational Medicine</td>
<td>1946-6234</td>
<td>17,066</td>
<td>16.264</td>
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<tr>
<td>Journal of Clinical Investigation</td>
<td>0021-9738</td>
<td>101,063</td>
<td>12.575</td>
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<tr>
<td>Journal of Experimental Medicine</td>
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<td></td>
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<tr>
<td>Annual Review of Medicine</td>
<td>0066-4219</td>
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### Q1

<table>
<thead>
<tr>
<th>Full Journal Title</th>
<th>ISSN</th>
<th>Total Cites</th>
<th>Impact Factor</th>
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<tbody>
<tr>
<td>Marine Structures</td>
<td>0951-8339</td>
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<td>1.729</td>
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<tr>
<td>Ocean Engineering</td>
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<tr>
<td>Journal of Navigation</td>
<td>0373-4633</td>
<td>853</td>
<td>1.267</td>
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<tr>
<td>Proceedings of the Institution of Mechanical Engineers Part M-Journal of Engineering for the Maritime Environment</td>
<td>1475-0902</td>
<td>244</td>
<td>0.902</td>
</tr>
<tr>
<td>Ships and Offshore Structures</td>
<td>1744-5302</td>
<td>293</td>
<td>0.790</td>
</tr>
</tbody>
</table>
A journal could have multiple subject areas and different quartiles

### PLANT FOODS FOR HUMAN NUTRITION

<table>
<thead>
<tr>
<th>JCR Year</th>
<th>JIF Percentile</th>
<th>Quartile</th>
<th>Rank</th>
<th>JCR Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>64/204</td>
<td>Q2</td>
<td>68.873</td>
<td>PLANT SCIENCES</td>
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<tr>
<td>2013</td>
<td>55/199</td>
<td>Q2</td>
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<td>CHEMISTRY, APPLIED</td>
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<tr>
<td>2012</td>
<td>54/197</td>
<td>Q2</td>
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<td>NUTRITION &amp; DIETETICS</td>
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<tr>
<td>2011</td>
<td>51/190</td>
<td>Q2</td>
<td>73.421</td>
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<tr>
<td>2010</td>
<td>33/188</td>
<td>Q1</td>
<td>80.053</td>
<td></td>
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<tr>
<td>2009</td>
<td>52/173</td>
<td>Q2</td>
<td>70.231</td>
<td></td>
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<tr>
<td>2008</td>
<td>63/156</td>
<td>Q2</td>
<td>66.346</td>
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<tr>
<td>2007</td>
<td>92/152</td>
<td>Q3</td>
<td>39.803</td>
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<tr>
<td>2006</td>
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<td>Q3</td>
<td>28.912</td>
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<td>2005</td>
<td>113/144</td>
<td>Q4</td>
<td>21.875</td>
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</tr>
<tr>
<td>2004</td>
<td>123/138</td>
<td>Q4</td>
<td>11.232</td>
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<tr>
<td>2003</td>
<td>129/136</td>
<td>Q4</td>
<td>5.515</td>
<td></td>
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<tr>
<td>2002</td>
<td>122/135</td>
<td>Q4</td>
<td>10.000</td>
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<tr>
<td>2001</td>
<td>116/134</td>
<td>Q4</td>
<td>13.806</td>
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<tr>
<td>2000</td>
<td>130/137</td>
<td>Q4</td>
<td>5.474</td>
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</tbody>
</table>
Live Product Demo
InCites & Web of Science Core Collection

**WEB OF SCIENCE PLATFORM**

*Web of Science Core Collection*
- Science Citation Index Expanded
- Social Sciences Citation Index
- Arts & Humanities Citation Index
- Conference Proceedings Citation Index
- Book Citation Index
  - Science
  - Social Science & Humanities

**INCITES PLATFORM**

*Journal Citation Reports*
- Impact Factor uses data from most recent JCR data year + prior 2 years

*Essential Science Indicators*
- Data from most recent 10 year period
- Limited document types
- Top performing authors, institutions, broad categories countries, journals, and papers in 22 broad categories

*Benchmarking & Analytics*
- Data from all source editions from 1980-Present

*Emerging Sources Citation Index*
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: Benchmarking & Analytics
The data included in InCites Benchmarking and Analytics

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source Editions</td>
<td>SCIE, SSCI, A&amp;HCI, CPCI, CPCI-H, BKCI, BKCI-H</td>
</tr>
<tr>
<td>Citing Editions</td>
<td>ALL</td>
</tr>
<tr>
<td>Document Types</td>
<td>ALL</td>
</tr>
<tr>
<td>Source and Citing Years</td>
<td>1980-current</td>
</tr>
</tbody>
</table>

- Data will be updated every month
- Standard Address Unification (Global Comparisons, Org-Enhanced)
Using Metrics Wisely

Using Citation Indicators 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.

Thomson Reuters InCites supports a comprehensive class of advanced bibliometric indicators assessing various aspects of research performance.

For each indicator, the following are explained:

- 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
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.

How “good” is this? What is the context? Additional metrics are needed to understand research performance.
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?
**Benchmarking & Analytics Indicators**

Comparison ‘like with like’

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


<table>
<thead>
<tr>
<th>Source</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
<th>Publication Date</th>
<th>Times Cited</th>
<th>Journal Expected Citations</th>
<th>Category Expected Citations</th>
<th>Journal Normalized Citation Impact</th>
<th>Category Normalized Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOURNAL OF COMPUTATIONAL CHEMISTRY</td>
<td>25</td>
<td>16</td>
<td>1605-1612</td>
<td>2004</td>
<td>5,312</td>
<td>95.82</td>
<td>29.33</td>
<td>55.44</td>
<td>181.12</td>
</tr>
</tbody>
</table>

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

Average number of citations to articles of the same document type in the same category in the same database year
Links for Useful Information

- Video Tutorials
- Training Resources and Guides
- Calendar of Live Trainings
- Linkedin.com/in/Jamaleo
- Twitter.com/Jamaleo
Thank you

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