— JOURNAL AND HIGHLY CITED DATA

JOURNAL CITATION REPORTS AND ESSENTIAL SCIENCE INDICATORS

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ESSENTIAL SCIENCE INDICATORS

Essential Science Indicators can determine the influential individuals, institutions, papers, journals, and countries in a field of study, as well as emerging research areas that could impact your work.

This unique and comprehensive compilation of science performance statistics is an ideal analytical resource. Conduct ongoing quantitative analyses of research performance and trends in science. Rank top scientists, institutions, countries, and journals across 22 specific fields of research in science performance statistics and science trends (based on journal article publication counts and citation data).

- Analyze research performance of companies, institutions, nations, and journals
- Identify significant trends in the sciences and social sciences
- Rank top countries, journals, scientists, papers, and institutions by field of research
- Determine research output and impact in specific fields of research
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THIS TOOL PROVIDES YOU:

- In-depth coverage – access more than 12 million articles from 12,000+ journal titles from around the world
- A solid basis for comparison of research performance, including baselines – the benchmarks for assessing research impact
- Current coverage – available as a 10-year rolling file, updated every two months
- Research Fronts – algorithmically derived topics reflect research-intensive and breakthrough areas of current science
- Highly Cited Papers – chosen from the most recent 10 years of data
- Hot Papers – focuses on recent papers (from the past two years) that show an unusual rate of citation in the current period
- Data sourced from the Web of Science™ – key indicators of Essential Science Indicators are also integrated into the Web of Science for users subscribed to these products

TO ANSWER QUESTIONS LIKE:

- What are the most-cited papers in immunology?
- What are the emerging research areas in agricultural sciences?
- What country has the highest impact in chemical research?
- Who are the most-cited authors in the field of molecular biology?
- What are the top journals in geosciences?

JOURNAL CITATION REPORTS

The recognized authority for evaluating journals, Journal Citation Reports offers a systematic, objective means to critically evaluate the world's leading journals with quantifiable, statistical information based on citation data.

Using a combination of impact and influence metrics, and millions of cited and citing journal data points that comprise the complete journal citation network, Journal Citation Reports provides the context to understand a journal's true place in the world of scholarly literature. This essential analysis tool summarizes citations from science and social science journals and proceedings in the Web of Science database, delivering detailed reports of their citation performance, their citation network, and the count and type of materials published. It helps:

- Librarians to support selection or removal of journals from their collections and determine how long to keep each journal in the collection before archiving it
- Publishers and editors to determine journals' influence in the marketplace and review editorial functions
- Authors to identify the most appropriate and influential journals in which to publish, as well as confirm the status of journals in which they have published
- Professors and students to discover where to find the current reading list in their respective fields
- Administrators and information analysts to track bibliometric and citation patterns to make strategic and funding decisions

WITH JOURNAL CITATION REPORTS, YOU CAN:

- Sort journal data by clearly defined indicators: journal impact factor, immediacy index, total cites, total articles, cited half-life, Eigenfactor®, journal title, and more
- Sort subject category data by clearly defined fields: total cites, median impact factor, aggregate impact factor, aggregate immediacy index, aggregated cited half-life, number of journals in category, number of articles in category
- Better understand a journal's impact over time with the five-year impact factor and trend graph

EXPANDED FUNCTIONALITY TO FULLY UNDERSTAND A JOURNAL'S PLACE IN THE SCHOLARLY WORLD

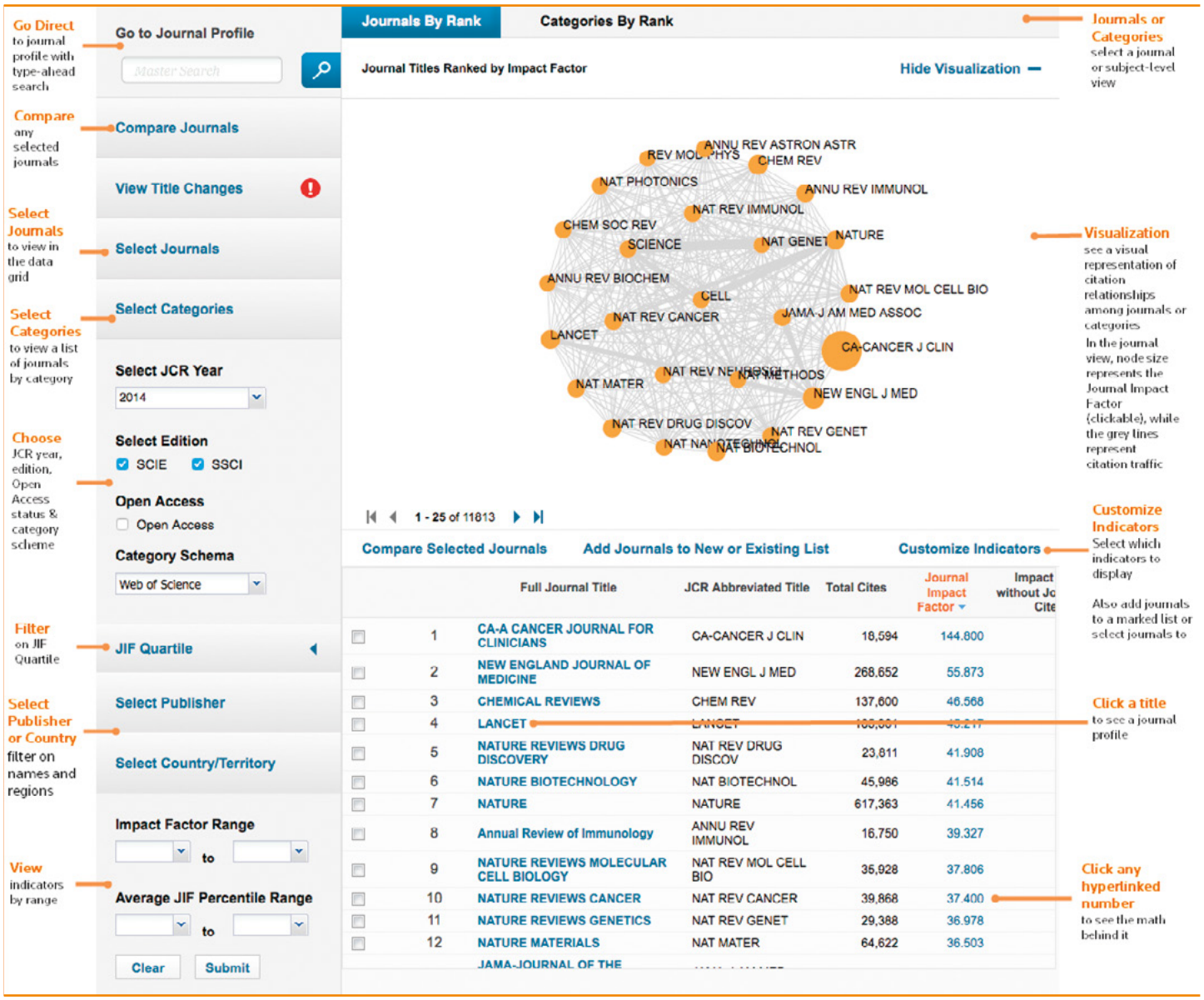
The Journal Impact Factor can be a very valuable metric when used in the proper context. Journal Citation Report metrics and data complement the Journal Impact Factor, depicting a more precise view of journal citation results from a broader range of scholarly disciplines in farther-reaching contexts. Expanded analytical capabilities include:

- **Five-Year Impact Factor:** View a more informative snapshot over a longer time span, with a broader range of citation activity. For journals in subjects where citation activity continues to rise over several years, this allows more of their total citation activity to be included in a critical performance metric.
- **Journal Impact Factor Percentile:** Cross-category Journal Impact Factor comparisons.
- **Eigenfactor Metrics:** Discover the metrics that use citing journal data from the entire Journal Citation Report file to reflect the prestige and citation influence of a journal by considering scholarly literature as a network of journal-to-journal relationships.

$$Eigenfactor = 100 \times ECS$$

$$Normalized\_Eigenfactor - \boxed{N} \times ECS$$

N = number of journals in the JCR
The average EF score across all journals = 1
The total EF score for all journals = N



- **Impact Factor Boxplots:** Visualize impact factor through a graphic interpretation of how a journal ranks in different categories.
- **Rank-in-Category Tables:** Evaluate journals in the context of multiple categories.
- **Journal Self-Citations:** See how self-citations affect journal impact factor.

Thorough integration with Web of Science and other valuable resources:

- Link from a record in Web of Science to the full journal profile in Journal Citation Reports
- Link from a Journal Citation Reports record to the most recent table of contents in Current Contents Connect and drill down to the paper level with the Citable Items document list
- Link between Journal Citation Reports and ulrichsweb.com, Ulrich's Web-based Periodicals Directory
- Link to and from your library's OPAC
- Add links to citation metrics using the Thomson Reuters Article Match Retrieval Service

JOURNAL CITATION REPORTS COVERAGE

- Covers more than 11,000 journals from over 2,550 publishers in approximately 237 disciplines from 82 countries
- Data is sourced from the Web of Science, and key indicators of Journal Citation Reports are also integrated into the Web of Science for users subscribed to these products

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