Analytical resources

ISI Web of Knowledge℠

Take the next step

Journal Citation Reports®

Journal Use Reports™

Essential Science Indicators℠

The Analyze Tool

ISI Web of Knowledge provides analytical tools that enable users to conduct ongoing, quantitative analyses of scientific and scholarly performance — evaluating and ranking scientists, institutions, countries and journals.

These tools contain citation-based performance data and editorial content derived from Thomson Scientific's multidisciplinary database of thousands of influential, peer-reviewed journals. In addition to being used to retrieve information on the micro level — finding individual citations to follow the trail of a specific scientific concept — the database offers a macro view. This macro view is unique to *ISI Web of Knowledge* resources, and helps users see patterns and trends as they analyze research activity and performance and discover emerging areas of current investigation in the sciences and social sciences.

Journal Citation Reports

The recognized authority for evaluating journals, with unique journal and category data

Journal Citation Reports on the Web offers a systematic, objective means to critically evaluate the world's leading journals. It is the only journal evaluation resource that provides statistical information based on citation data. By compiling articles' cited references — supplied by the publishing authors themselves — *JCR® Web* helps to measure research influence and impact at the journal and category levels, and shows the relationships between citing and cited journals.

Available in Science and Social Sciences editions, this resource is an essential tool for anyone who needs to know about journal impact and influence in the global research community:

- **Librarians** can 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** can determine journals' influence in the marketplace and review editorial functions.
- **Authors** can identify the most appropriate, influential journals in which to publish, as well as confirm the status of journals in which they have published.
- **Professors and students** can discover where to find the current reading list in their respective fields.
- **Information analysts** can track bibliometric and citation patterns.

Efficiently evaluate the world's top science and social science journals

JCR Web provides these useful data fields:

- **Impact factor** - Provides a way to evaluate or compare a journal's performance relative to others in the same field.
- **Immediacy index** - Measures how often articles published in a journal are cited within the same year; useful for comparing journals specializing in cutting-edge research.

- **Article counts** - Shows the number of articles published in a journal in a particular year (original research and review articles only).
- **Cited half-life** - Benchmarks the age of cited articles; useful in collection management and archiving decisions because it shows the age of the majority of cited articles published in a journal; helps publishers adjust editorial policies to compete in different market segments.
- **Source data** - Shows the number of review articles and original research articles versus other content that is published by a particular journal.

Valuable features enable users to:

- View a journal's impact with a five-year Impact Factor Trend Graph.
- Link seamlessly from a record in *Web of Science*® to the full journal record in *JCR Web*.*
- Link from a *JCR Web* record to the most recent table of contents in *CC Connect*®.*
- Link between *JCR Web* and ulrichsweb.com™, Ulrich's Web-based Periodicals Directory™.*
- Link to and from your library's OPAC.

Thoroughly analyze journal categories

Much of the same statistical information available for individual journals is also available for subject categories, based on combined data within each category from 2003 forward. This provides a view of coverage, citation behavior and relationships across an entire subject, and enhances the metric Dr. Garfield created — the impact factor.

FAST FACTS ABOUT JCR

- ***Science Edition*** - Over 6,000 leading journals
- ***Social Sciences Edition*** - More than 1,700 leading journals
- Journals from 3,300 publishers; in approximately 200 disciplines; from 60 countries
- Cited and citing journal statistics from 1997 forward

Journal Use Reports

A more efficient way to measure the value of your journal collections

Built in partnership with top institutions worldwide, *Journal Use Reports* helps librarians and administrators get a complete picture of journal performance, use, and research activity at their institution.

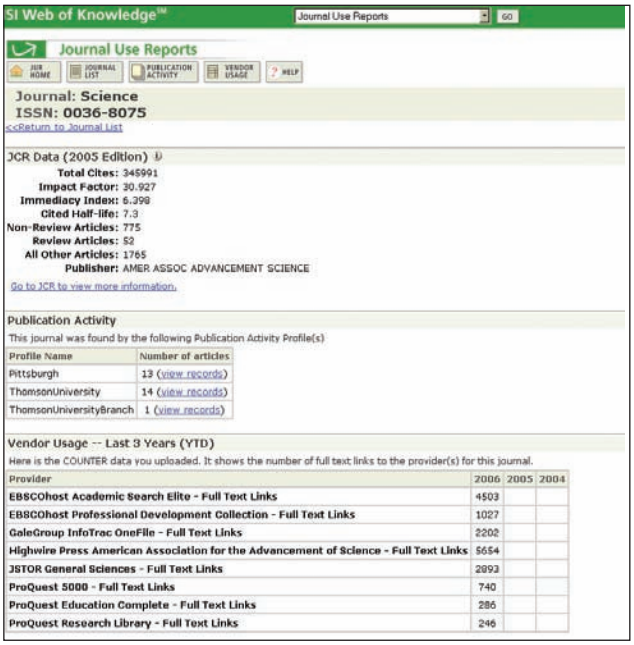
JUR enables fully-informed collection development and management decision-making, using the integrated and customized data to:

- Acquire a better understanding of departmental needs
- Analyze the depth of data at the journal level for a specific institution
- Analyze usage to spot trends by citations, usage or both
- Analyze data across categories
- Understand and document researcher impact
- Defend ROI by integrating user activity with researcher output to see how their library collection is contributing to academic output
- Spot collection gaps or research trends
- Support curriculum as well as collection development

FAST FACTS ABOUT JUR

JUR combines several types of data:

- **Institutional COUNTER-compliant journal usage reports from publishers and vendors** – shows the value of a journal to the patrons
- **Journal citation metrics from *JCR*** – shows the value of a journal to the literature
- **Institutional publication data** – lets users analyze journal use and institutional publishing patterns, creating profiles by department, section, and budget code
- **Article-level data from *Web of Science*** – reveals citation activity at the researcher and departmental level



* Based on your institution's subscriptions

Essential Science Indicators

Identify scientific findings, measure research performance, track key trends

With all the resources they need in one place, *Essential Science Indicators* users can determine the influential individuals, institutions, papers, publications, and countries in their field of study – as well as emerging research areas that could impact their work. This ideal resource for conducting complex analyses of scientific literature helps users:

- 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
- Evaluate potential employees, collaborators, reviewers, and peers

FAST FACTS ABOUT ESI

- Approximately ten million articles in over 8,500 journal titles from around the world
- Includes baselines, which are the benchmarks for assessing research impact
- Provides expert guidance that enhances data, such as editorial comments from scientists and researchers
- Additional features: Highly Cited Papers, Hot Papers, Research Fronts

The Analyze Tool

Results analysis reveals hidden trends and patterns

The Analyze Tool allows users to refine their searches by grouping results by author, publication year, institution, language, subject category, document type or source title, and more. These subsets of information, displayed in an easy-to-interpret graphic format, allow for easy identification of hidden trends and patterns within particular areas of research. Researchers gain insight into emerging fields of science and the leading researchers in these fields, and can trace the history of particular fields of study.

This innovative tool is available through multidisciplinary and specialized *ISI Web of Knowledge* resources.

How can the Analyze Tool make research easier? Here's what your colleagues have to say:

Opening new doors — Dr. Karel Hruska, Czech Republic

For Dr. Karel Hruska, from The Veterinary Research Institute in Brno, Czech Republic, the Analyze Tool has opened doors to new, productive means of research. This new tool significantly and positively impacted his research on the relationship between Mycobacterium avium subsp. paratuberculosis (MAP) and Crohn's Disease.

Dr. Hruska first compiled data by using *Web of Science* to search for articles with the phrase "PARATUBERCULOSIS AND CROHN*". Then, he used the Analyze Tool to quickly group the results, analyze the published papers, and identify veterinary research trends.

The result was Dr. Hruska's "analysis of publications" paper in the August 2004 edition of *Veterinarni Medicina*. In his paper, he determined that the number of papers linking MAP and Crohn's Disease is increasing, and inferred that the bacterium is increasingly suspected of having involvement in Crohn's Disease. Because the disease affects cattle and other ruminants, such research impacts all aspects of the dairy and beef markets – from farmers to consumers.

"I love this tool" — Peggy Dominy, Philadelphia, PA

Peggy Dominy, Information Services Librarian for Sciences and Math at Drexel University in Philadelphia, finds the Analyze Tool a much-needed asset for the university's 300 full-time faculty and more than 10,000 graduate students.

"The Analyze Tool empowers *Web of Science* users with the ability to track the evolution of research," says Dominy. "Before the Analyze Tool, determining seminal papers and tracking the evolution of research were cumbersome processes. The Analyze Tool gives us these, and therefore gives us better direction about how to proceed with our research."

"Students see rankings, not just raw numbers," continues Dominy. "It's easy. I love this tool. I love being able to do so much with it."

The Charleston Advisor gave *JUR* a composite score of 4.0 out of 5.0:

"The most compelling application of this system is as a tool to better understand journal use at the local institutional level... Capturing different types of use data into a single interface provides a systematic quantitative approach to gather and review statistics... This product serves as an integrated management tool to assist in the assessment of e-journal collection use, and it provides some unique features for doing so."

— *JoAnn Sears, The Charleston Advisor,* July 2006

Here's what Péter Jacsó has to say about *JCR*:

"...*JCR* is still the only usable tool to rank thousands of scholarly and professional journals within their discipline or subdiscipline."

"For educated decisions about selecting and deselecting journals in college libraries, and gauging the prestige and influence of journals, it is a very good tool."

— *Péter's Digital Reference Shelf,* August 2005

TAKE THE NEXT STEP

To find out more about *ISI Web of Knowledge* analytical resources and tools, contact a Thomson Scientific account representative at the office nearest you.

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