SciVal
An inside look
SciVal offers access to the research performance of over 13,000 research institutions and 230 nations worldwide.

With unparalleled power and flexibility, SciVal enables you to navigate the world of research and devise an optimal plan to drive and analyze your performance.

Data source

 SciVal is based on output and usage data from Scopus, the world’s largest abstract and citation database for peer-reviewed publications.

 SciVal uses Scopus data from 1996 to current date, which covers over 48 million records comprised of 22,800+ serials from 5,000+ publishers. These include:

• 22,000+ peer-reviewed journals
• 360 trade publications
• 150,000+ books
• 1,100 book series
• 5.5 million conference papers

Metrics

 SciVal offers a broad spectrum of industry-accepted and easy-to-interpret metrics including Snowball Metrics which are defined and agreed by higher education institutions for institutional strategic decision-making through benchmarking.

 Metrics in SciVal help the institutions to measure an institution’s or a country’s productivity, citation impact, collaboration, subject disciplinarity and more.

 For further information about the metrics available in SciVal and how to use them together please see the Research Metrics Guidebook.
Build your views on the world’s research

Visualize research performance
Access comprehensive research performance summaries of any desired research entities. Identify their unique research strengths and multidisciplinary research areas.

- Retrieve at-a-glance, standardized reports instantly
- Get a high-level overview of the research performance of your institution, other institutions, countries and groups of researchers

Benchmark your progress
Compare the performance of institutions, countries, and pre-defined groups, or create your own research areas and monitor progress over time.

- Perform in-depth analyses to meet your specific objectives by selecting any combination of subject areas and metrics from a comprehensive set
- Identify your relative strengths and weaknesses to optimize your strategy

Conduct a complete portfolio analysis
The Topic Prominence in Science feature enables you to run a complete portfolio analysis to see which Topics your institution is currently active in, and which Topics have high momentum, therefore more likely to be well-funded.

- See overviews for research entities such as institutions, countries and researchers
- Get insight into which researchers are active in specific Topics, which Topics your peers and competitors are active in and the related Topics of which you should be aware

Identify and evaluate existing and potential collaboration partnerships
Identify and analyze existing and potential collaboration opportunities based on publication output and citation impact.

- Explore your institution’s current and prospective partnerships on the map view
- Identify your top collaborative institutions and co-authorship by drilling into specific subject areas and self-defined research topics

Analyze research trends
Analyze the research trends of any Research Area, Topic or Topic Cluster to create an overview in a matter of minutes with citation and usage data. Use this to discover key researchers, rising stars and current developments in fields of interest.

- View the overall performance of a Research Area, Topic or Topic Cluster, then dig deeper into the activity and impact of the institutions, countries, researchers and journals involved to help inform your research strategy
- Usage information complements citation data to give a more complete picture of research performance

ELSEVIER
Visualize research performance

Comprehensive summaries of any desired research entity such as institutions, countries, research groups and topics.

Today’s R&D landscape requires research managers to devise better ways to measure the quality and impact of their institution’s research projects.

SciVal helps you assess your institution’s research performance from a variety of perspectives in order to establish, execute and evaluate strategies based on reliable evidence. Using advanced data analytics, SciVal allows you to instantly process an enormous amount of data, 48 million publication records from over 22,000 journals of over 5,000 publishers worldwide, and provides access to more than 280 trillion metric values to generate powerful data visualizations on-demand, in seconds.

You can select any research entity to analyze from:

- Institutions and Groups
- Researchers and Groups
- Publication Sets
- Countries and Groups
- Topics and Topic Clusters
- Research Areas

In the Overview module you can:

1. Retrieve at-a-glance, standardize reports instantly
2. Get a high-level overview of the research performance of your institution, other institutions, countries and groups of researchers
Conduct a complete portfolio analysis

The Topic Prominence in Science feature enables you to run a complete portfolio analysis to see which Topics your institution is currently active in, and which Topics have high momentum – therefore are more likely to be well-funded. Get insight into which researchers are active in specific Topics, which Topics your peers and competitors are active in, and the related Topics of which you should be aware.

A Topic is a collection of documents with a common focused intellectual interest and can be large or small, new or old, growing or declining. Over time, new Topics will surface, and as Topics are dynamic, they will evolve. As with the nature of today’s research landscape many Topics are multidisciplinary, and old Topics may be dormant, but still exist. In addition, researchers themselves are mobile, and work in various different research areas, and thereby contribute to multiple Topics.

Topic Prominence in Science can help answers such as:

1. What are the pockets of well-funded research in our current research portfolio?
2. Who are the top performing researchers and upcoming talent active in those particular research Topics?
3. How can we show that our institution is particularly active and leading the way in a research field, which has a lot of momentum?
4. Which forward-momentum Topics are our peers and competitors currently active in?
Benchmark your progress

Assess your relative strengths and weaknesses by making custom selections of research groups, indicators and subject areas to compare and benchmark against.

You can use the Benchmarking module to:

1. Perform in-depth analyses to meet your specific objectives by selecting any combination of subject areas and metrics
2. Identify your relative strengths and weaknesses to optimize your strategy

Select a country, region or “world” from Country and Groups to benchmark your relative performance, or create research areas using journals and subject classifications to benchmark against a research topic.
Identify and evaluate existing and potential collaboration partners

Access a list of institutions that you collaborate with or have the potential to collaborate with. Start with a worldwide view of your institution’s collaboration landscape, and then zoom in to individual collaborating institutions and researchers globally.

The Collaboration module allows you to explore the collaboration network of both your institution and other institutions. Based on co-authorship, the Collaboration module helps you explore existing collaborative links, providing rankings of institutions and authors based on output and impact related metrics. You can also explore the institutions you have yet to co-author any publications.

You can use the Collaboration module to:

1. Analyze existing and potential collaboration opportunities
2. Explore your institution’s current and prospective partnerships via an interactive map
3. Identify your top collaborative institutions and co-authorship by drilling into specific subject areas and self-defined research topics

Asia Pacific

- 1,446 collaborating institutions
- 20,600 co-authored publications

Elsevier
Analyze research trends

Analyze the research trends of any Research Area, Topic or Topic Cluster with citation and usage data, to discover key researchers, rising stars and current developments in fields of interest.

The Trends module helps you see the current scientific trends to determine a new research strategy, find collaboration opportunities and rising stars. You can perform advanced, Topic centric analysis of any Research Area, Publication Set, Topic, or Topic Cluster with usage and citation information. This allows you to identify the key institutions, researchers and countries working in a field of interest and identify where you are a key contributor.

Using the Elsevier Fingerprint Engine®, SciVal is able to extract the distinctive key phrases which describe any field of interest in more detail.

You can use the Trends module to:

1. View the overall performance of a Research Area, then dig deeper into the activity and impact of the institutions, countries, authors and journals involved and adjust your research strategy accordingly.
2. See a more complete picture of research performance using usage information to complement the citation data.
SciVal

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