

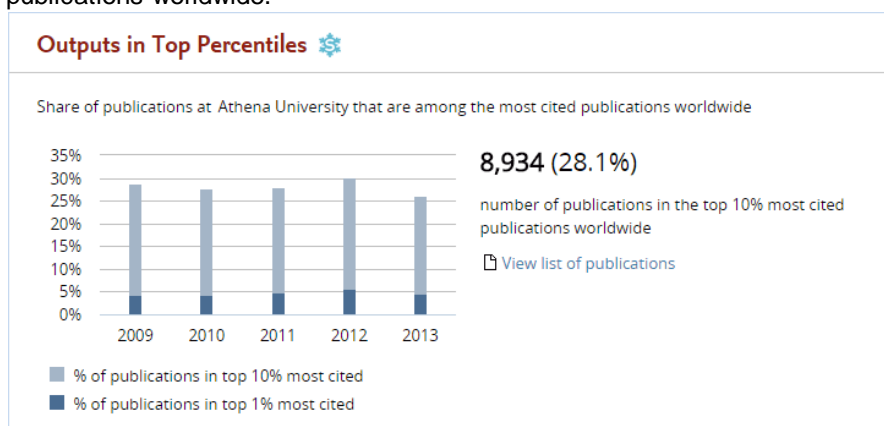
3 How you can use SciVal

3.1 How can my institution demonstrate research excellence?

A number of quality metrics are available in SciVal to demonstrate research excellence at your institution.

Use highly cited publications and publications in leading journals. Two metrics often used to illustrate excellence of research are Outputs in Top Percentiles and Publications in Top Journal Percentiles. These show how much of your institution's publication output was good enough to rank among the world's top publications.

1. Go to the Overview module and select your institution.
2. Go to the Publications tab and find the Outputs in Top Percentiles section. This shows the share of your institution's publications that are within the top 1% and top 10% of the most cited publications worldwide.



3. As you can see in the chart above, some 28% of Athena University's publications were in the top 10 percentiles of the most cited publications worldwide.
4. The Publications in Top Journal Percentiles section shows how many of your institution's publications were in the top 1% and 10% of the world's journals. These top journals are selected by measuring all journals by either SNIP or SJR and selecting the top-ranking ones. You can toggle between SNIP and SJR using the dropdown menu.

See [What are SNIP and SJR?](#) for more information on these journal metrics.



5. As you can see in the chart above, 37.6% of the publications at Athena University were published in the top 10 journals worldwide (measured by SNIP).
6. Go to the Benchmarking module to see the Outputs in Top Percentiles and Publications in Top

Journal Percentiles metrics for your institution over a longer time period (1996 to present). You also have additional metric options available here. And you can compare your institution to other institutions, or the national or global average.

Demonstrate research strengths. The Competencies analysis in the Overview module offers another way to demonstrate excellence.

The Competencies analysis identifies research strengths of your institution – granular areas of research where your institution is a global leader. A competency shows where an institution has a leading position compared to other institutions in terms of number of publications, number of highly cited publications or innovation - the recentness of cited publications.

The competency analysis uses a methodology based on citation patterns called co-citation analysis. Highly cited publications are clustered based on co-citation counts. The clusters are grouped together into competencies.

The analysis is always based on five years of data. For example, if you select 2013, the analysis is based on data from 2009 up until and including 2013.

To learn more, see: [What are competencies?](#)

3.2 How can my institution evaluate the impact of its research portfolio?

To evaluate the impact of your research, you can use SciVal to analyze your institution's citation metrics. Useful metrics include Citation Count, Citations per Publication and Field-Weighted Citation Impact.

1. Go to the Overview module and select your institution from the left-hand entity selection panel (Athena University in this example). If you are interested in a particular field of research or time period, adjust the filters for year range and Scopus journal category.

Athena University
United States | [More details on this institution](#)

Source: Scopus data up to 03 Sep 2014 | 2009 to 2013 | Neurosciences

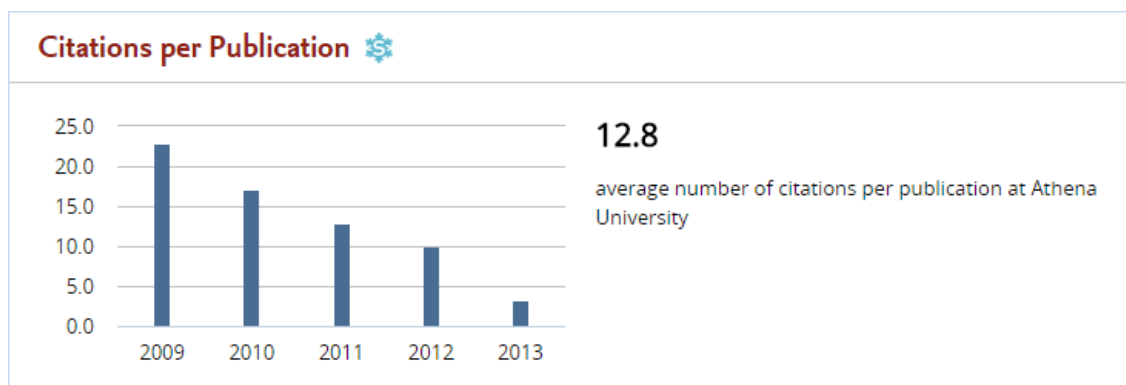
Summary | Publications | Citations | Authors | Collaboration | Competencies

Overall research performance [Download page as PDF](#) [Export](#)

Publications	Citations	Authors	Field-Weighted Citation Impact	Citations per Publication
2,024 ▲	24,801	1,903 ▲	1.75	12.3

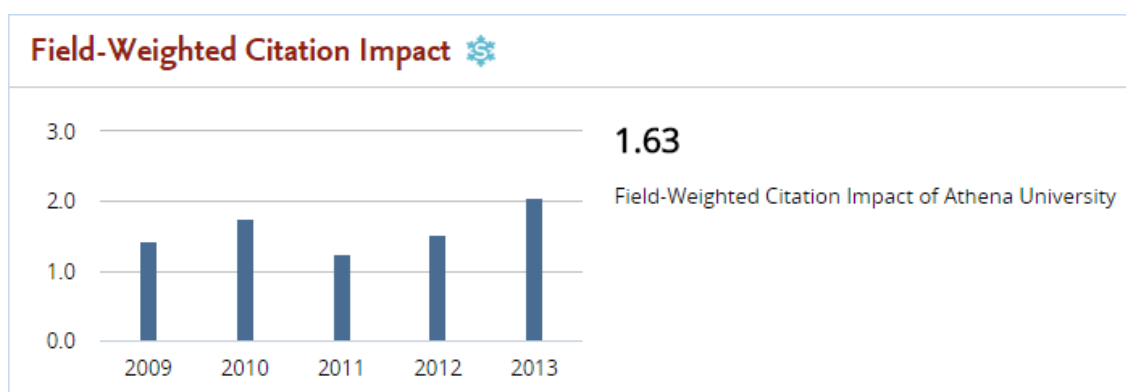
[View list of publications](#)

2. Go to the Citations tab to see metrics for citation impact.
3. As you can see, Athena University has averaged 12.8 citations per publication over a five-year time period.



4. The Field-Weighted Citation Impact of your institution adjusts for the differences in citation behavior across disciplines. Athena's impact is 1.63. Citations are 63% more than expected based on the global average.

- The Field-Weighted Citation Impact is the number of total citations received divided by the total citations expected, based on the global average for the field.
- More than 1.00 means that citations are more than expected.
- Less than 1.00 means the citations are less than expected.



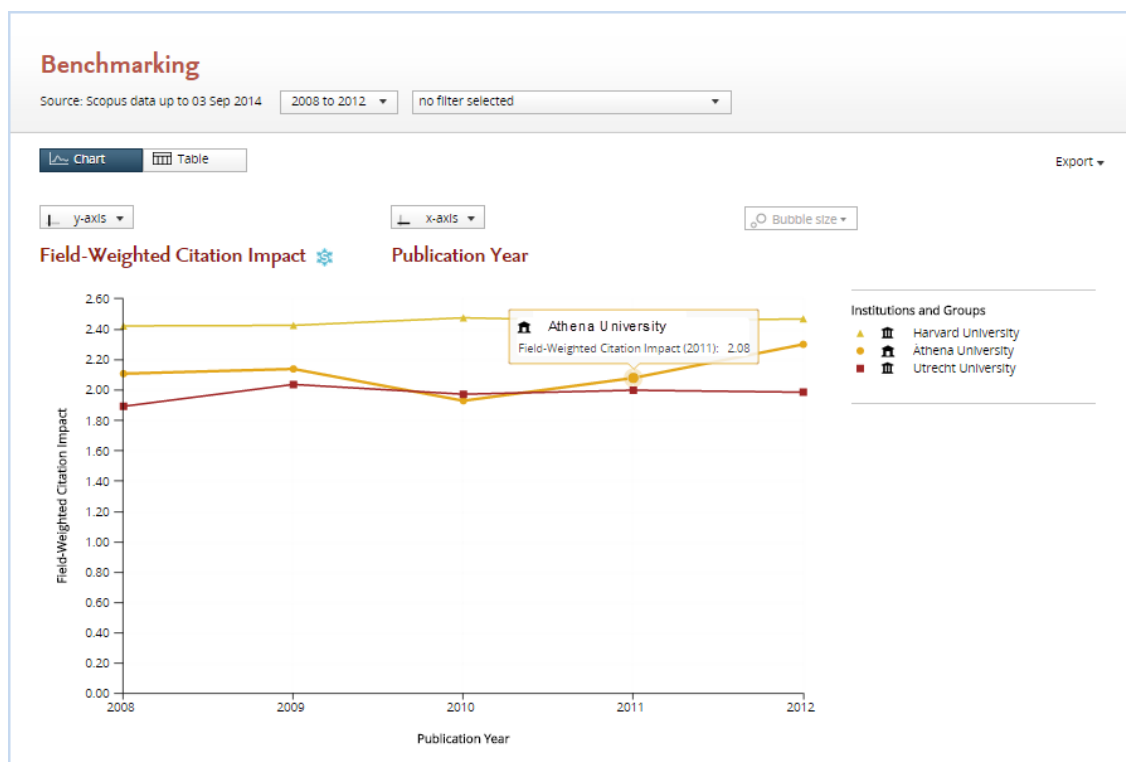
5. Where does your institution have the highest impact? Go to the Overview module (Publications tab) and select "by Journal Category." You can view Field-Weighted Citation Impact by journal category not just in table format, but also as a bar chart.

Publications by Journal Category Export ▼

☐ Pie chart
 ☒ Bar chart
 ☐ Table

Journal Category	Publications ▼	Citations	Authors	Field-Weighted Citation Impact
▼ Athena University	35,952 ▲	363,926	20,560 ▲	1.97
▶ Medicine	14,412 ▲	144,745	9,235 ▲	2.08
▶ Biochemistry, Genetics and Molecular Biology	5,823 ▲	82,613	6,333 ▲	1.80
▶ Physics and Astronomy	5,135 ▲	55,173	3,687 ▲	2.13
▶ Engineering	4,208 ▲	30,718	3,794 ▲	1.95
▶ Chemistry	4,078 ▲	63,790	3,876 ▲	2.15

6. To compare the impact of your institution's publications against other institutions or the national average, go to the Benchmarking module.



7. You can also compare the same institutions within a particular subject area. Select your field of interest from the 27 main categories and 334 subcategories within the Scopus journal classification. Or use a [different journal classification](#).

