Assessing Institutional Research Impact with SciVal

1. Log in to SciVal (www-lib.uwyo.edu/utils/permalink.cfm?id=82693). Note: You will need to create a personal SciVal/Scopus login account to use this service.

2. Go to "Overview." In the left-hand column, click "Institutions and Groups," then "Add Institutions and Groups."

3. In the box, type a few letters of the desired institution name. Some suggested matches will be displayed. Click on the appropriate name. Repeat to add as many individual institutions as you want to compare.

4. SciVal displays a summary of overall research performance for the specified institution(s), including:
   - Number of Publications
   - Number of Citations
   - Number of Authors
   - Field-Weighted Citation Impact
   - Citations per Publication

A pie chart displays a breakdown of published items by subject area of the publishing journals.
Further down, under "Performance indicators," SciVal shows the percentage of items from institutional authors that:

- Are included among the top 10% most cited items
- Have been published in the top 10% of journals, judged by various measures of citation performance
- Were co-authored with scholars in other countries
- Were co-authored with authors with corporate affiliations.

Note that the analysis covers only a specified time period, going back a maximum of 5 years before the present. If desired, select a different time period from the drop-down list beside the "Source" information.

5. For more detailed analyses and visualizations, click the Publications, Citations, or Collaboration tabs.

When institutions are analyzed using SciVal's Overview facility, two special tabs are available: Authors and Competencies.

Authors
This Authors tab shows a list of the top 100 individual authors affiliated with the selected institution, including their publication count, the year of their most recent publication (in terms of the date range specified for the analysis), a citation count (raw citations, average citations per publication, or average field-weighted citation impact), and h-index. The list can sorted by any of these figures, by clicking the arrow next to the associated heading.
To narrow the author list by subject area (of the publishing journals), click the arrow next to the list in the "Source" section and select the desired category.

**Competencies (research subject areas)**

The Competencies tab shows a list of research areas in which institutional authors excel. Competencies are defined by Elsevier on the basis of keywords, and are classed as Distinctive (DC) or Emerging (EC) for an institution, according to publication output and citation performance. The institution's most published authors in the field, the total number of publications, and total citations are displayed.

The Competencies list can be filtered by a number of parameters, including subject area (journal category), type of competency, type of leadership of the institution, and so on. Click the arrow beside "Filter competencies by" above the list to see the available parameters.

You can also search the Competencies in SciVal by contributing author, keyword, journal category or contributing Institution.

Click on a Competency ID to see more detailed information about the field, and about how the institution's authors are performing in the field compared to national and worldwide benchmarks, as well as to other top institutions. Click "Methodology" to see how the selected competency was defined for the institution in question.
Competency EC #64
sodium, irrigation, soil

<table>
<thead>
<tr>
<th>Summary</th>
<th>Trends</th>
<th>Journal Categories</th>
<th>Institutions</th>
<th>Authors</th>
<th>Compare</th>
<th>Methodology</th>
</tr>
</thead>
</table>

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #64 as an emerging competency of the University of Wyoming.

See why this field is an emerging competency of the University of Wyoming.

Publications in this field (2010-2014)

<table>
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<tr>
<th>Publications worldwide</th>
<th>Publications in the United States</th>
<th>Publications at the University of Wyoming</th>
</tr>
</thead>
<tbody>
<tr>
<td>306 publications</td>
<td>89 publications</td>
<td>18 publications</td>
</tr>
<tr>
<td>Annual growth</td>
<td>-0.1%</td>
<td>-13.5%</td>
</tr>
<tr>
<td>Citations</td>
<td>793</td>
<td>264</td>
</tr>
</tbody>
</table>

Show the contribution to this field from:
- University of Wyoming
- All contributing institutions worldwide

Top keywords for the University of Wyoming:
- natural gas
- river basin
- Coal deposits

Top authors from the University of Wyoming:
- Reddy K.J.
- Vance G.F.
- Frost C.D.

More information:

SciVal Quick Reference Guide

SciVal User Guide

Video: Introduction to the SciVal Overview module
[tinyurl.com/ScivalOverview](http://tinyurl.com/ScivalOverview)
Comparing research performance with other institutions, and to national and international benchmarks

1. At the top of the SciVal window, click "Benchmarking."

2. Click the appropriate checkboxes to select the Institutions and/or Countries (or groups of the above) to be compared. If the desired entity is not available to be selected, click "Add..." and type a few letters until the appropriate entry is suggested, then click to add it to the list.

Note that the analysis covers only a specified time period, going back as far as 1996. If desired, specify a different time period by clicking the arrow beside the dates in the "Source" line.

You can also filter results by research area, by choosing a journal subject category from the drop-down list next to the date range; click the arrow beside a subject term to see the available subcategories.

3. The chart on the right-hand side of the page will automatically redraw to show values for the selected entities. To change the metrics displayed, click on the "y-axis" and/or "x-axis" arrows and choose from the lists. To view the data in tabular format, click "Table" at the top of the chart area. To toggle display of data for an entity, mouse-over the name in the legend, then click the eye icon.
More information:

Video: Introduction to the Scopus Benchmarking module
tinyurl.com/ScivalBenchmark

Contact Us

Have more questions about research analytics? Contact a University of Wyoming librarian at cdoffice@uwyo.edu, including "Research Analytics" in the subject line.

For general library-related inquires, see the University of Wyoming Libraries contact information at uwyo.libanswers.com

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