SciVal: Analyze Research Performance

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Objectives

Help you gain an overview of SciVal and a primer on using it practically so you can get started after the session.

Topics covered will include:
1. What are the basics?
2. How can SciVal help me?
3. What is the underlying dataset?
4. Considerations around the data and metrics
5. Location and content of the help files
What is SciVal?

SciVal is a research intelligence solution that allows you to analyze research performance, benchmark relative to peers, identify collaborative partnerships and uncover research trends.
## Research Intelligence Portfolio

### Discover, Analyze & Network

- **Scopus**
  - The broadest source of global scientific research.

### Manage & Showcase

- **Pure**
  - Research information management system and research networking tool

- **bepress Digital Commons, EGS**
  - Institutional repository & publishing platform for networks of full-text scholarship

### Evaluate, Plan & Benchmark

- **SciVal**
  - Visualize research performance, benchmark, develop partnerships and analyze research trends

- **Research Metrics**
  - Comprehensive suite of metrics helps to assess research impact

### Secure & Administer Funding

- **Funding Institutional**
  - Discovery and analysis tool to help increase grant success.

- **Expert Lookup**
  - Find researchers with expertise who meet your funding priorities and locate the right reviewers

- **Enabling Features**
  - Fingerprinting Solutions

### Additional Services

- **Mendeley Reference Manager**
  - Free reference manager and academic social network

- **Mendeley Data**
  - Free discovery tool that catalogs grant information from over 2,000 funders across the globe.

- **Mendeley Data Analytical Services**
  - Meeting needs from specified datasets to consultative analysis, reports & services

- **Scopus Custom Data Analysis**
  - Meeting needs from specified datasets to consultative analysis, reports & services

- **Pure Award Management**

### Additional Resources

- **Research Institutions Administration**
- **Research Libraries & Patrons**
- **Funders**
- **Policy Makers**
- **Industry**
- **Ranking Organisations**
SciVal in a nutshell

SciVal offers quick, easy access to the research performance of over 10,000 research institutions and 230 regions and countries.

- **Visualize research performance**: Ready-made-at-a-glance snapshots of any selected entity.
- **Benchmark your progress**: Flexibility to create and compare any research groups.
- **Develop collaborative partnerships**: Identify and analyze existing and potential collaboration opportunities.
- **Analyze research trends**: Analyze research trends to discover the top performers and rising stars.
SciVal today

- Measuring research performance of 10,000 academic, corporate and governmental institutions
- More than 600 customers, across 80 countries, since its launch in 2014. Predominantly academic institutions.
- Very strong presence in UK, Australia, Japan, China and Russia
- Corporate customers include: Unilever, Siemens, Boeing
- Several funding organizations and national government bodies
Short release cycles – iterative design

**Previous 2018 releases**

- **Topic Prominence in Science**: Representative publications and Topics for Researcher
- Remove hyper-authored papers & view only the “real” collaborations
- **Reporting enhancements**: one library instead of two for easier navigation

**Pascal**

- 12 June

- **Hierarchical structures** from Pure into SciVal
- **Reporting enhancements** – custom naming an renaming of analyses
- h5-metric update allows year-on-year comparisons
- SciVal API supports predefined groups of researchers and countries

**Qushji**

- 10 July

- **Topic Prominence in Science**: Key contributors + support for groups of institutions
- **Reporting enhancements** – instant report from Overview summary page + Trends

**Ride**

- 28 August

- **Topic Prominence in Science**: Related Topics
- Additional subject classifications (incl. THE, QS, KAKEN)
- See only the publications from your researchers when published at your 'home' institution.

**Sagan**

- 18 September

- **Reporting enhancements**: Reporting in Collaboration module
- Diacritic support. To help you find an institution faster
Short release cycles – iterative design

<table>
<thead>
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<th>Tesla 6 November</th>
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<tr>
<td>• New heatmaps in Collaboration.</td>
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<td>• Build Research Areas from Topics.</td>
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<td>• Enhanced flow to import Researchers</td>
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The layers of SciVal

Overview
Benchmarking
Collaboration
Trends

Create and select research entities
Select metrics
Big Data technology

Publication, citation and Scopus usage data
awarded grants, mass media mentions, patent-article citations
Scopus is the largest abstract and citation database of peer-reviewed literature, and features smart tools that allow you to track, analyze and visualize scholarly research.

Scopus delivers a comprehensive view on the world of research. No packages, no add-ons. One all-inclusive subscription.
The foundation of SciVal

**Scopus**
- Publication, citation, usage data
- 72 M records
- 23,000 journals
- 5,000+ publishers

**newsflo**
- Bespoke media monitoring

**WIPO**
- World Intellectual Property Organization

**European Patent Office**
- Intellectual Property Office

**Publication, citation and Scopus usage data, mass media mentions, patent-article citations**
Benefits for a broad range of users

SciVal supports the needs of a broad range of institutional users by providing ready-made, at-a-glance snapshots for flexible, institution-specific insight.

<table>
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<th>Role</th>
<th>Benefits</th>
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| Vice chancellors of research  | • 360 degree Performance Overview to inform strategic planning  
                                  • Identify institution’s strengths and short-comings                                              |
| Research administrators        | • Create management-level reports  
                                  • Accelerate institutional and cross-institutional collaboration  
                                  • Support and win large grants                                                                     |
| Department heads              | • Evaluate researcher and team performance for recruitment and retention decisions  
                                  • Model-test scenarios by creating virtual teams                                                   |
| Researchers                    | • Raise visibility and highlight achievements  
                                  • Expand networks  
                                  • Locate collaborators and mentors                                                                 |

Vice chancellors of research enable:
- 360 degree Performance Overview to inform strategic planning
- Identify institution’s strengths and short-comings

Research administrators provide:
- Create management-level reports
- Accelerate institutional and cross-institutional collaboration
- Support and win large grants

Department heads offer:
- Evaluate researcher and team performance for recruitment and retention decisions
- Model-test scenarios by creating virtual teams

Researchers benefit from:
- Raise visibility and highlight achievements
- Expand networks
- Locate collaborators and mentors
What are the questions addressed using SciVal?

“How can we demonstrate excellence in a way that best shows our unique strengths to secure funding and attract students?”

“I want to explore the various scenarios I’m considering to set up a Center of Excellence. How can the data provide me with insights?”

“Our Provost is going to South Korea; who do our academics collaborate with there and how can we expand?”

“How can I see who’s excelling in a specific subject compared to my researchers, for potential collaboration opportunities?”
“How can we demonstrate excellence in a way that best shows our unique strengths to secure funding and attract students?”

Highlight the disciplinary focus of your institutions and your top researchers.
Look through different metrics to identify ones that demonstrate your institution’s research excellence.

See how many of your publications fall into the top 1% and 10% of the most cited articles in the world.
Look through different metrics to identify ones that demonstrates your institution’s research excellence.

- **Citation Count**: 267,175 citations received by publications at Arizona State University.
- **Citations per Publication**: 10.6 average number of citations per publication at Arizona State University.
- **Field-Weighted Citation Impact**: 1.87 Field-Weighted Citation Impact of Arizona State University.

View Field-Weighted Citation Impact that normalizes citation behavior for differences in size, field and publication-type.
“I want to explore the various scenarios I’m considering to set up a Center of Excellence. How can the data provide me with insights?”

Test scenario by creating virtual teams and compare using multiple metrics.
“Our Provost is going to South Korea; who do our academics collaborate with there and how can we expand?”

Drill into the map to identity your collaboration partners in China.
Identify existing and potential collaboration partners
Assess the activity level and identify researchers.

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<thead>
<tr>
<th></th>
<th>Arizona State University</th>
<th>Seoul National University</th>
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<tbody>
<tr>
<td>Co-authored</td>
<td>37</td>
<td>56</td>
</tr>
<tr>
<td>Field-Weighted Citation Impact</td>
<td>1.80</td>
<td>2.95</td>
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<tr>
<td>Authors</td>
<td>92,880</td>
<td>33,392</td>
</tr>
<tr>
<td>Scholarly Output</td>
<td>29,495</td>
<td>59,021</td>
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<tr>
<td>Views count (from Scopus)</td>
<td>541,269</td>
<td>1,094</td>
</tr>
<tr>
<td>Field-Weighted Views Impact</td>
<td>1.29</td>
<td>1.76</td>
</tr>
<tr>
<td>Citation Count</td>
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</tbody>
</table>

![Collaboration with Seoul National University](image)
“How can I see who’s excelling in a specific subject compared to my researchers, for potential collaboration opportunities?”

Choose or create your own Research Area in SciVal
Analyze all or a specific part of the Research Area

View the performance of the top institutions, countries, authors and journals and compare them to your institution for potential synergies.
Introducing Topic Prominence in Science: moving beyond evaluation and benchmarking to research planning and analysis.

A powerful tool to build a progressive and resilient research portfolio.
With Topic Prominence we can …

...Help Researchers
- **Identify topics with high momentum** and most likely high funding success rates.
- **Showcase** that they are active in topics with high momentum.
- **Find the best potential co-authors** in those topics.
- **Identify emerging & related topics** with high momentum they should be aware of.

...Help Research managers
- Identify pockets of **well funded research** in the **research portfolio**.
- Find the **top performers** and **rising stars** in those areas for recruitment, tenure and collaboration.
- **Showcase** that they or their institution is active in topics with high momentum.
- **Identify which topics other researchers and universities** are active in that have high momentum.
Solution – Topic Prominence

• We have identified ~96,000 global research topics by clustering all of Scopus and ranked them by Prominence.

• **Prominence is a new indicator** that shows the current momentum of a topic by looking at very recent citations, views and CiteScore values.

• **Prominence = momentum** (not the same as importance!).

• **Prominence predicts funding** – helps researchers and research managers identify topics in which funding will increase.
NIH tripled spending for Alzheimer’s research

How are “Topics” identified

- All Scopus publications are clustered into topics using citation links
- ~35 million publications (1996-present) in ~96,000 topics
- Clustering is done using algorithms that
  - Divide the documents into groups
  - Have a resolution parameter where increasing the resolution increases the number of clusters and reduces cluster sizes
  - Maximize the links within clusters and minimize the links between clusters
Prominence and funding

• Grant data (314K grants, $203 billion) from STAR METRICS database were assigned to topics using textual similarity

• Dependent variable = Funding per topic 2011-2013

• Prominence + Funding (2008-2010) together explain 66% of the variance

What is a Topic?

• A cluster of documents with a common intellectual interest
  – Instantly recognizable by researchers

• Easy to interpret
  – Articles that cite each other are generally in the same topic

• Accurate problem-level subdivisions of science
  – We use the most accurate clustering methods available

• Nearly complete coverage
  – Papers from 1996-
What does a Topic look like?
Back to Alzheimer's research…

<table>
<thead>
<tr>
<th>Topic</th>
<th>Scholarly Output</th>
<th>Field-Weighted Citation Impact</th>
<th>Prominence percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amyloid; Alzheimer Disease; amyloid imaging ...</td>
<td>1,501</td>
<td>2.33</td>
<td>99.719</td>
</tr>
<tr>
<td>Alzheimer Disease; Diabetes Mellitus, Type 2; intranasal insulin ...</td>
<td>1,472</td>
<td>1.40</td>
<td>99.253</td>
</tr>
<tr>
<td>MicroRNAs; Alzheimer Disease; neuronal differentiation ...</td>
<td>1,432</td>
<td>1.73</td>
<td>99.383</td>
</tr>
<tr>
<td>Magnetic resonance imaging; Alzheimer Disease; ADNI database ...</td>
<td>1,043</td>
<td>1.54</td>
<td>98.578</td>
</tr>
<tr>
<td>Alzheimer Disease; Dementia; CSF biomarkers ...</td>
<td>990</td>
<td>2.70</td>
<td>99.154</td>
</tr>
<tr>
<td>Alzheimer Disease; Cerebrospinal Fluid; CSF biomarker ...</td>
<td>925</td>
<td>1.87</td>
<td>98.714</td>
</tr>
<tr>
<td>Alzheimer Disease; Genome-Wide Association Study; precursor protein...</td>
<td>821</td>
<td>1.66</td>
<td>98.607</td>
</tr>
<tr>
<td>Alzheimer Disease; Amyloid beta Peptides; amyloid β ...</td>
<td>755</td>
<td>1.31</td>
<td>98.248</td>
</tr>
<tr>
<td>Alzheimer Disease; Mild Cognitive Impairment; amnestic mild ...</td>
<td>743</td>
<td>1.22</td>
<td>96.349</td>
</tr>
<tr>
<td>Alzheimer Disease; Amyloid; neurofibrillary tangles ...</td>
<td>710</td>
<td>2.22</td>
<td>98.793</td>
</tr>
<tr>
<td>Cholesterol; Alzheimer Disease; brain cholesterol ...</td>
<td>590</td>
<td>1.30</td>
<td>96.567</td>
</tr>
</tbody>
</table>
What can you do with Topics?

1. Help your researchers and faculty identify funding opportunity areas

2. Assess which research areas to invest in:
   - Identify top researchers for recruitment or collaboration
   - Find top institutions to partner with
   - Retain your best researchers

3. Help you showcase your achievements
   - To funding agencies
   - To potential collaboration partners
ASU’s entire publication portfolio from 2013-2018
ASU’s top 1% of Topics from 2013-2018
ASU as key contributor, in current top 1% of Topics (2013-2018)
Identify institutional research strengths

Researchers at Arizona State University have contributed to 10,262 topics between 2013 to 2018.

<table>
<thead>
<tr>
<th>Topic</th>
<th>At this Institution</th>
<th>Worldwide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine; marine; aquatic; marine ...</td>
<td>60</td>
<td>47.587</td>
</tr>
<tr>
<td>Crystallography; X-ray crystallography ...</td>
<td>84</td>
<td>94.8318</td>
</tr>
<tr>
<td>Racism; African American; everyday discrimination ...</td>
<td>82</td>
<td>72.288</td>
</tr>
<tr>
<td>Hispanic American; acculturation; acculturative stress ...</td>
<td>76</td>
<td>60.781</td>
</tr>
<tr>
<td>Black holes (astrophysics); time measurement; direct collapse ...</td>
<td>66</td>
<td>98.039</td>
</tr>
<tr>
<td>Database; database; differential imaging ...</td>
<td>62</td>
<td>67.214</td>
</tr>
<tr>
<td>DNA; Nanostructures; oligonucleotides ...</td>
<td>61</td>
<td>99.990</td>
</tr>
<tr>
<td>Host; island; urban climate; canopy ...</td>
<td>61</td>
<td>98.314</td>
</tr>
</tbody>
</table>
Compare institutions’ research strengths

<table>
<thead>
<tr>
<th>Topic</th>
<th>Prominence Percentile</th>
<th>Arizona State University</th>
<th>Northern Arizona University</th>
<th>The University of Arizona</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molybdenum compounds; Monolayers; dichalcogenides T.63</td>
<td>99.999</td>
<td>63</td>
<td>0</td>
<td>13</td>
</tr>
<tr>
<td>Microbial fuel cells; Bioelectric Energy Sources; T.16</td>
<td>99.978</td>
<td>48</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Microalgae; Algae; lipid productivity T.139</td>
<td>99.921</td>
<td>27</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>Switching; Data storage equipment; conductive T.26</td>
<td>99.907</td>
<td>78</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DNA; Nanostructures;</td>
<td>99.898</td>
<td>61</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

View the Scholarly Output of the selected entities, by Topic 0 [ ] 280

Show navigator
Further reading

For further information regarding the methodology, how Prominence is calculated and assigned etc. please see the following papers:

• **Research Portfolio Analysis and Topic Prominence**  
  *Richard Klavans and Kevin Boyack*

• **Identifying Emerging Topics in Science and Technology**  
  *Henry Small, Kevin W. Boyack and Richard Klavans*

• **Which Type of Citation Analysis Generates the Most Accurate Taxonomy of Scientific and Technical Knowledge?**  
  *Richard Klavans and Kevin W. Boyack*

• **A New Methodology for Constructing a Publication-Level Classification System of Science**  
  *Ludo Waltman and Nees Jan van Eck*
Accessing SciVal at www.scival.com

If you haven’t previously registered for Scopus or ScienceDirect then please go to Register Now. Use VPN off-campus or ask Shelly for a Remote Access link.
Getting help
Getting help

The spine menu will provide a line to help documentation

https://service.elsevier.com/app/home/supporthub/scival/

- Contact me if you have any problems and I will answer the question or find someone who can. l.Galloway@Elsevier.com
  949-280-6029
What’s new in SciVal?

- Stay up-to-date on our latest releases and improvements via scival.com
- Read and share our exciting Twitter updates
- “New in this Release” news section >> see the latest release elements
- SciVal Development Roadmap >> see what’s coming up for SciVal in 2018 and beyond
- Access the latest SciVal Webinars
- Learn exciting new Tips & Tricks via our virtual tour guide in SciVal
SciVal - Solution to your strategic planning challenges

Gain immediate access to view and analyze the world’s research to:

• View the ready-made, at-a-glance snapshot of your research performance or of any team or institution around the world
• Benchmark your team’s or institution’s performance against any set of peers.
• Model test scenarios by creating virtual teams and newly emerging research areas.
• Evaluate existing and identify potential collaborative partnerships, locally or globally
• Track and monitor top performers and rising stars for any research topic of interest.

www.elsevier.com/research-intelligence
What are the questions addressed using SciVal?

“How can I determine if a research area is a good investment of our limited time & resources?”

“How can we raise our institution’s scholarly impact?”

“What are our institutions strengths compared to others?”

“What is the best way to showcase my institution’s prominence?”
Use an existing Topic or Research Area, or create your own, to uniquely represent your area of interest.

“How can I determine if a research area is a good investment of our limited time & resources?”

Research area: Water, Energy, Climate, Wastewater

<table>
<thead>
<tr>
<th>Summary</th>
<th>Institutions</th>
<th>Countries</th>
<th>Authors</th>
<th>Scopus Sources</th>
<th>Keyphrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall research performance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Scholarly Output</td>
<td>Field-Weighted Citation Impact</td>
<td>International Collaboration</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>180</td>
<td>1.18</td>
<td>48</td>
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</tbody>
</table>

View list of publications

<table>
<thead>
<tr>
<th>Views Count</th>
<th>Citation Count</th>
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<tr>
<td>13,253</td>
<td>1,433</td>
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</tbody>
</table>

Keyphrase analysis

Top 50 keyphrases by relevance, based on 180 publications

- Wastewater
- Reclamation
- Water resource
- Water treatment
- Water conservation
- Sewage treatment
- Infrastructure
- Sanitation
- Water supply systems
- Water recycling
- Life cycle analysis
- Carbon footprint
- Biofuels
- Algae
- Anoxic digestion
- Activated sludge process
- Environmental regulations
- Petrochemical plants
- Electricity
- Greenhouse gases
- Stormwater
- Agricultural runoff
- Water demand
- Bioenergy
- Disruption
Examine the research area to determine your scholarly presence, your competitors, and potential collaborators.

“How can I determine if a research area is a good investment of our limited time & resources?”

Find top institutions, authors, journals, etc.
Strive to publish in more highly ranked journals, which may lead to more highly regarded, and cited, articles.

“How can we raise our institution's scholarly impact?”
“How can we raise our institution’s scholarly impact?”

Use the ‘Sources’ tab in Scopus to find journal rankings, and journals to target for publication.
“What are our institutions strengths compared to others?”

View a Topic Prominence Heat Map to visualize research area prominence and relative strengths.
“What are our institutions strengths compared to others?”

Explore the Heat Map in more detail to find unique areas of strength, and to see how you compare world-wide.
“What is the best way to showcase my institution’s excellence for outreach to donors?”

Use the ready-made visualizations and graphics to embed in other applications.
Metrics selection
Two Golden Rules for using research metrics

Always use both qualitative and quantitative input into your decisions

Always use more than one research metric as the quantitative input

Benefit from the strengths of both approaches. Don’t replace one with the other

Combining both approaches = closer to the whole story

Valuable intelligence comes when these approaches show different messages

One metric’s strengths can complement the weaknesses of others

There are many different ways of being excellent

Using multiple metrics drives desirable changes in behavior (harder to game)
Research Metrics Guidebook

- **Topics** – Expand and enhance
- **Organisational hierarchies in SciVal** – Easy method to create and maintain
- **Reporting** – Simplify, enhance and expand the functionality
- **Improve our metrics support** – Relaunched support hub, refreshed Metrics Guidebook, in-product guidance, reporting templates, Metrics wizard
- **Additional** – REF year range, new subject classifications, home institution filter and hyper-authored papers, Collaboration module overhaul
Research Metrics Guidebook

This comprehensive metrics guidebook is intended to be a straightforward, practical companion for you to find the right metrics to meet your objectives.

- **Understanding metrics**
  - Scopus as data source
- **Selection of appropriate metrics**
  - What affects their values, besides performance?
- **For each metric**
  - Situations in which they are useful
  - When to take care and how to address short-comings
  - Worked examples
There are 6 factors, which can affect the value of a metric:
- Size
- Publication-type
- Manipulation
- Discipline
- Database coverage
- Time

### How to choose a metric

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<tr>
<td>Academic-Corporate Collaboration</td>
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<td>Academic-Corporate Collaboration Impact</td>
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<tr>
<td>Awards Volume</td>
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<tr>
<td>Citation Count</td>
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<tr>
<td>Citations Per Publication</td>
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<td>Cited Publications</td>
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<td>Collaboration Impact</td>
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<td>Field-Weighted Citation Impact</td>
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<td>Field-Weighted Mass Media</td>
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<td>Media Exposure</td>
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<tr>
<td>Number of Citing Countries</td>
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A basket of >30 sets of metrics at your disposal

**Productivity metrics**
- Scholarly Output
- Outputs in Top Percentiles
- Publications in Top Journal Percentiles

**Citation Impact metrics**
- Citation Count
- Citations per Publication
- Cited Publications
- Number of Citing Countries
- $h$-indices ($h$, $g$, $m$)
- Field-Weighted Citation Impact
- Citing-Patent Count
- Patent-Cited Scholarly Output
- Patent-Citations Count
- Patent-Citations per Scholarly Output

**Collaboration metrics**
- Collaboration (geographical)
- Collaboration Impact (geographical)
- Academic-Corporate Collaboration
- Academic-Corporate Collaboration Impact

**Disciplinarity metrics**
- Journal count
- Journal category count

**Usage metrics (Trends module)**
- Views Count
- Views per Publication
- Field-Weighted Views Impact

**Societal Impact Metrics**
- Mass Media
- Media Exposure

Snowball Metric; [www.snowballmetrics.com/metrics](http://www.snowballmetrics.com/metrics)
Research Intelligence

SciVal: Practical analyses

November 2018
What is trending in a Research Area?

First, we’ll use Topic Prominence
# Top 50 related Topics, by Prominence percentile

## Wastewater reclamation; Water conservation; greywater treatment  T.21307

<table>
<thead>
<tr>
<th>Topics</th>
<th>Relatedness</th>
<th>Scholarly Output</th>
<th>Prominence percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>life cycle analysis; wastewater; assessment LCA</td>
<td>94%</td>
<td>614</td>
<td>98.334</td>
</tr>
<tr>
<td>rainwater; harvesting; rainwater tank</td>
<td>88%</td>
<td>597</td>
<td>95.765</td>
</tr>
<tr>
<td>Wastewater reclamation; wastewater; potable reuse</td>
<td>95%</td>
<td>398</td>
<td>91.247</td>
</tr>
<tr>
<td>Stabilization ponds; pond; maturation ponds</td>
<td>88%</td>
<td>188</td>
<td>86.396</td>
</tr>
<tr>
<td>Septic tanks; wastewater; onsite wastewater</td>
<td>91%</td>
<td>175</td>
<td>81.792</td>
</tr>
<tr>
<td>Refuse derived fuels; Developing countries; Saudi Arabia</td>
<td>89%</td>
<td>28</td>
<td>81.466</td>
</tr>
<tr>
<td>sludge; Sanitation, faecal sludge</td>
<td>92%</td>
<td>151</td>
<td>81.055</td>
</tr>
<tr>
<td>recharge; aquifer; aquifer treatment</td>
<td>89%</td>
<td>156</td>
<td>75.840</td>
</tr>
</tbody>
</table>
Examine Topic of interest

Institutions

- Chalmers University of Technology
- University of Santiago de Compostela
- INSA Toulouse
- Université de Toulouse
- Ministry of Education China

Top Institutions

<table>
<thead>
<tr>
<th>Rank</th>
<th>Institution</th>
<th>Scholarly Output</th>
<th>Views Count</th>
<th>Field-Weighted Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>University of South Florida</td>
<td>9</td>
<td>656</td>
<td>1.29</td>
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<tr>
<td>2</td>
<td>University of California at Berkeley</td>
<td>8</td>
<td>532</td>
<td>1.15</td>
</tr>
<tr>
<td>3</td>
<td>United States Environmental Protection Agency</td>
<td>6</td>
<td>679</td>
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<tr>
<td>4</td>
<td>Arizona State University</td>
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<tr>
<td>5</td>
<td>Stanford University</td>
<td>4</td>
<td>247</td>
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<tr>
<td>6</td>
<td>Yale University</td>
<td>4</td>
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<td>7</td>
<td>AECOM</td>
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<td>8</td>
<td>Carnegie Mellon University</td>
<td>3</td>
<td>173</td>
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<tr>
<td>9</td>
<td>Johns Hopkins University</td>
<td>3</td>
<td>140</td>
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<tr>
<td>10</td>
<td>Northeastern University</td>
<td>3</td>
<td>231</td>
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<td>11</td>
<td>University of Florida</td>
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<td>130</td>
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<tr>
<td>12</td>
<td>University of Pittsburgh</td>
<td>3</td>
<td>211</td>
<td>0.80</td>
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</tbody>
</table>
Create a Research Area

Second, we’ll define a research area.

Enter query string:
(water AND (energy OR power) AND climate AND wastewater)
**Explore your Research Area**

### Top Institutions

<table>
<thead>
<tr>
<th>Institution</th>
<th>Scholarly Output</th>
<th>Views Count</th>
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<tbody>
<tr>
<td>Columbia University</td>
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<tr>
<td>Carnegie Mellon University</td>
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<td>55</td>
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<tr>
<td>Colorado School of Mines</td>
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<td>103</td>
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<tr>
<td>Lawrence Berkeley National Lab</td>
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<tr>
<td>Lawrence Berkeley National Lab</td>
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<tr>
<td>Mississippi State University</td>
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<td>Oregon State University</td>
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<tr>
<td>Queen's University Kingston</td>
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<td>88</td>
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<tr>
<td>University of Arizona</td>
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<td>University of California at Berkeley</td>
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<td>84</td>
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<tr>
<td>University of Colorado Boulder</td>
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<td>36</td>
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</table>

### Top Authors

<table>
<thead>
<tr>
<th>Author</th>
<th>Affiliation</th>
<th>Scholarly Output</th>
<th>Views Count</th>
<th>Field-weighted h-index</th>
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</thead>
<tbody>
<tr>
<td>Champagne, Pascale</td>
<td>Queen's University, Kingston</td>
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<td>Rosso, Diego</td>
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<td>111</td>
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<tr>
<td>Sobhani, Reza</td>
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<td>0.46</td>
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<tr>
<td>Álvarez, Pedro José J.</td>
<td>Rice University</td>
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<td>Anand, Chiranjit Kaur</td>
<td>Universite de Sherbrooke</td>
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<td>56</td>
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<td>Anderson, Marc A.</td>
<td>University of Wisconsin</td>
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<td>62</td>
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<td>André, Chantale</td>
<td>Environment Canada</td>
<td>1</td>
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<td>Anumol, Tarun</td>
<td>Agilent Technologies</td>
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<td>19</td>
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<td>Apuli, Debmaly S.</td>
<td>University of Toledo</td>
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<td>56</td>
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<tr>
<td>Ashbolt, Nicholas J.</td>
<td>University of Alberta</td>
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<td>48</td>
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<td>Austin, David</td>
<td>Jacobs Engineering</td>
<td>1</td>
<td>26</td>
<td>1.26</td>
</tr>
</tbody>
</table>
Thank you!
Linda Galloway, l.Galloway@Elsevier.com
949-280-6029
Acquired by Elsevier in January 2015, **Newsflo** helps researchers and academic institutions to measure the wider impact of their work by tracking and analyzing media coverage of their publications and findings.

Counts mentions of media outlets to research related news (mostly initiated by press releases from research institutions).

Tracks over 55,000 English speaking global media sources.

Matched with 8,500 institutions in SciVal.
Societal-economic Impact – Mass Media Mentions

Step 1: Newsflo creates clusters of articles
...by clustering press releases and news articles based on text matching.

Step 2: Newsflo identifies clusters with name and affiliation combinations
...and matches against Scopus Author and Affiliation Profiles

Step 3: Tag Author Profiles, Affiliation Profiles and Scopus journal categories to clusters.
Subject area assignment is based on the article fingerprints of the articles in the clusters.

Step 4: Count the number of media mentions
...inside the clusters and assign the counts to:
- Researchers (by their Scopus Author Profiles),
- Institutions (by their Scopus Affiliations)

*We consider all name variants and entire affiliation history stored in the Scopus Author Profile