



SciVal introduction

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June 2019



Overview

1. SciVal introduction
2. How can SciVal help me?
3. Considerations around the data and metrics
4. Location and content of the help files

SciVal introduction

Accessing SciVal at www.scival.com

Login

SciVal is a ready-to-use solution with unparalleled power and flexibility, which enables you to navigate the world of research and devise an optimal plan to drive and analyze your performance.

(*required fields)

Login using your Elsevier credentials [If not, Register Now](#)

Username

Password

Remember me

[Forgot your username or password?](#)

New to SciVal? Find out what the new generation of SciVal can do for you.

Configure, visualize and export information according to your personal needs through SciVal's integrated modular platforms:



Overview

Get a high-level overview of the research performance of your Institution, other Institutions, Countries and Groups of Researchers.



Benchmarking

Compare and benchmark your Institution to other Institutions, Researchers and Groups of Researchers using a variety of metrics.



Collaboration

Explore the collaboration network of both your Institution and other Institutions.



Trends

Get the current scientific trends to determine a new research strategy, find collaboration opportunities and rising stars.



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

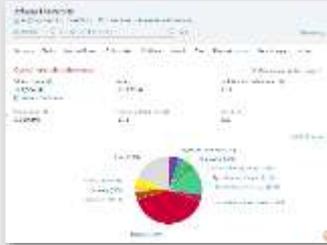
SciVal in a nutshell

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



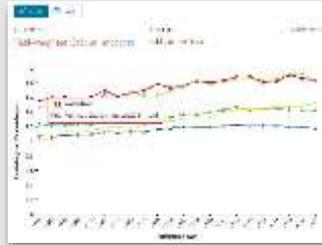
**Visualize
research
performance**

Ready-made-at a glance
snapshots of any
selected entity



**Benchmark
your progress**

Flexibility to create and
compare any research
groups



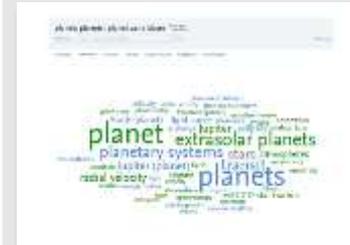
**Develop
collaborative
partnerships**

Identify and analyze
existing and potential
collaboration opportunities



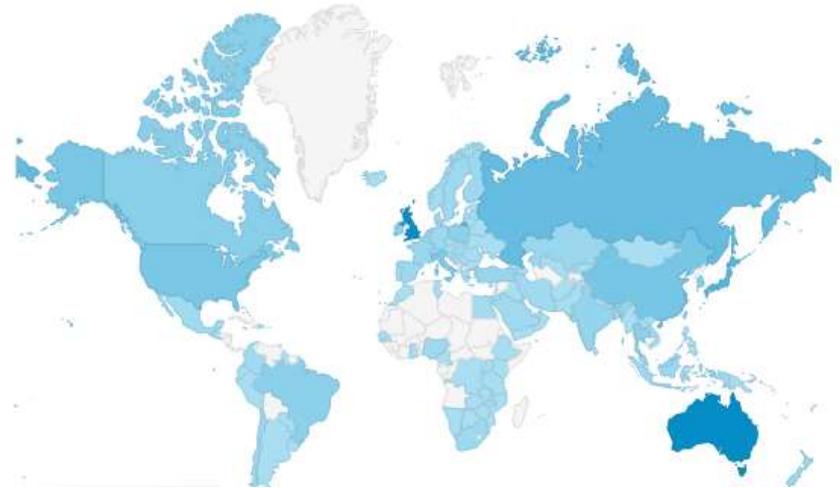
**Analyze
research
trends**

Analyze research trends to
discover the top performers
and rising stars

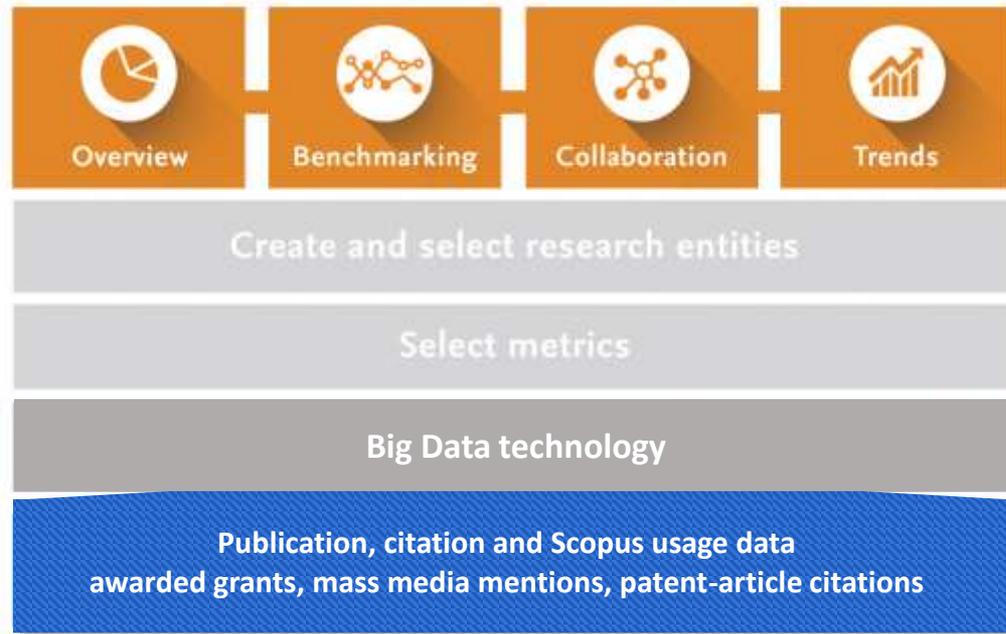


SciVal today

- **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**



The layers of SciVal



Research Entities

Entities in SciVal are groups of unique publications listed in Scopus. SciVal de-duplicates this set of publications when entities are combined



Institutions and Groups

- Includes all research outputs where an author is listed as affiliated to that particular institution



Researchers and Research Groups

- Includes all research outputs for a particular researcher, irrespective of affiliation



Publication Sets

- A customised set of publications from an authors or authors. Can also be imported using DOI, PMID or EID



Countries and Groups

- Includes all research outputs where an author is listed as affiliated to an institution within a particular country



Research Areas

- A publication set defined by keywords, Scopus journal categories, by a set of journals or by Topics

The foundation of SciVal

newsflo
bespoke media monitoring

Scopus

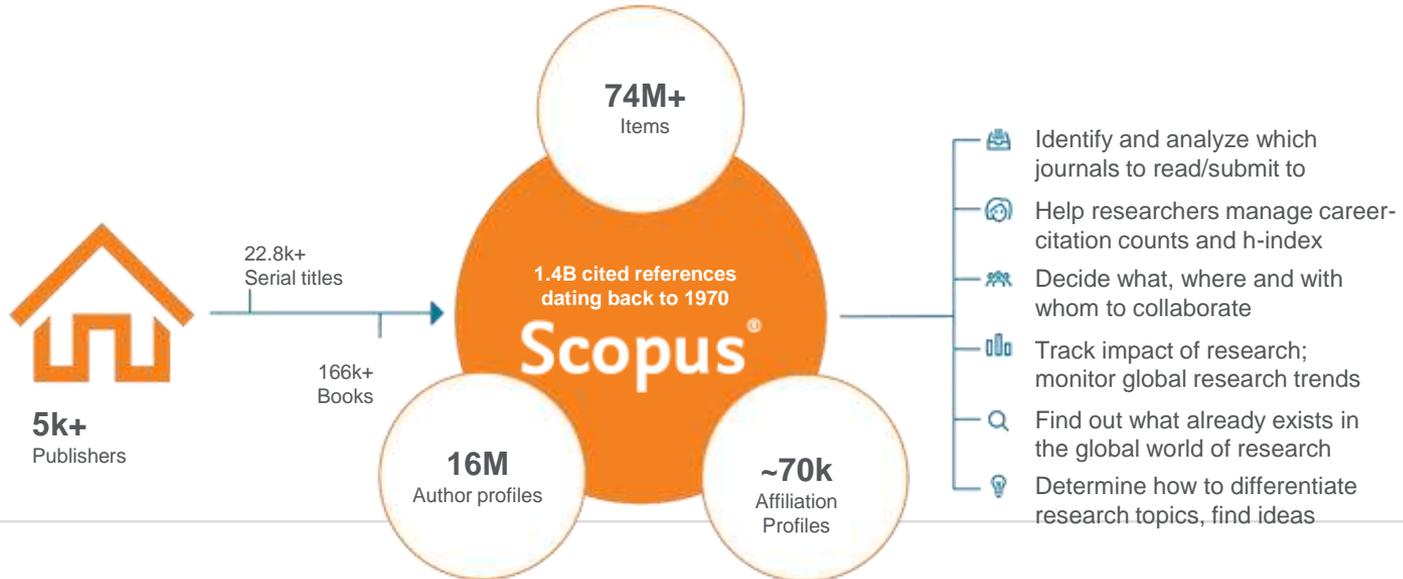
Publication,
Citation, usage data



Publication, citation and Scopus usage data, mass media mentions, patent-article citations

Scopus content & coverage

Scopus is one of the largest curated abstract and citation databases of peer-reviewed literature, and features smart tools that allow you to track, analyze and visualize scholarly research.



Global Representation means global discovery

Across all subjects and content types

Scopus includes content from more than 5,000 publishers and 105 different countries

- 40 different languages covered
- Updated daily
- Multiple regional content types covered (journals, conferences, books, book series)

<https://www.elsevier.com/solutions/scopus/how-scopus-works/content>

Number of Journals by subject area*	Journals	Conferences	Books
Physical Sciences 12,806	23,576 Active peer-reviewed journals**	106K Conference events	742 Book series
Health Sciences 14,264	308 Trade journals	9M Conference papers Mainly Engineering and Computer Sciences	38K Volumes
Social Sciences 11,573	4,157 Active Gold OA Journals (Listed DOAJ and/or ROAD)		1.64M Book Items
Life Sciences 7,128	229,640 Articles in Press Full metadata, abstracts and cited references		195K Stand-alone books Focus on Social Sciences and A&H

Source: Scopus.com, April 2019

*Journals may be classified in multiple subject areas—these figures include both active and inactive titles

** Excludes currently inactive titles—total number of titles in Scopus is 38,379



How can SciVal help me?

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



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

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 centre of excellence. How can the data provide me with insights?”



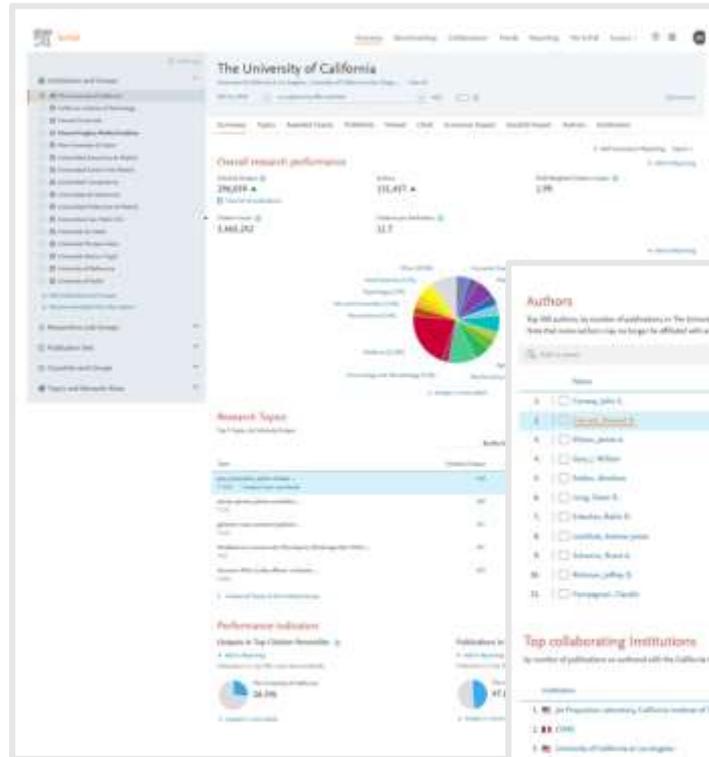
“My VC is going to China; who do our academics collaborate with there and how can we expand?”



“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?”



Authors

Top 100 authors by number of publications in The University of California over the period 01/1 to 01/31/2023. Note that some authors may no longer be affiliated with an institution in The University of California.

Rank	Name	Publications	Mean score	Citations	h-index
1	Tran, John S.	810	30.0	14,817	107
2	Davidson, J.	610	30.0	14,161	96
3	Pham, James H.	510	30.0	12,567	96
4	Shen, Wilson	410	30.0	11,411	91
5	Anders, Jonathan	410	30.0	10,110	90
6	Yang, David S.	410	30.0	11,494	91
7	Shenker, Adam S.	410	30.0	10,000	89
8	Wang, Andrew Jun	410	30.0	10,000	88
9	Schwarz, David S.	410	30.0	11,000	91
10	Wang, Jeffrey S.	410	30.0	11,000	90
11	Tran, Jonathan	370	30.0	11,201	101

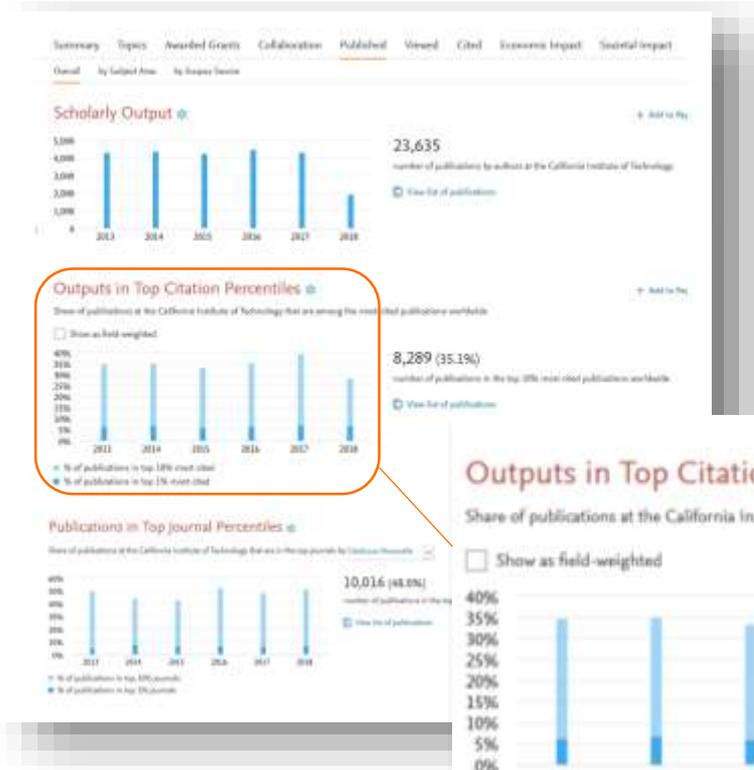
Top collaborating institutions

Top 100 institutions by number of publications co-authored with the California Institute of Technology.

Institution	Co-authored publications	Citations received by co-authored publications	Co-citation	Highly Regarded Citations
1. Princeton University, California Institute of Technology	1,076	70,111	6,687	128
2. MIT	1,041	61,211	5,811	129
3. University of California at Berkeley	1,037	36,203	1,211	297
4. Massachusetts Institute of Technology	1,010	30,111	1,241	424
5. University of California at Stanford	1,010	16,201	911	420
6. Cornell University	1,000	17,110	1,100	111
7. Harvard University	1,000	15,211	1,001	100
8. Princeton University	1,000	10,101	100	111
9. Johns Hopkins University	1,000	10,000	100	100
10. University of Michigan	1,000	10,000	100	100
11. Stanford University	100	10,000	100	100

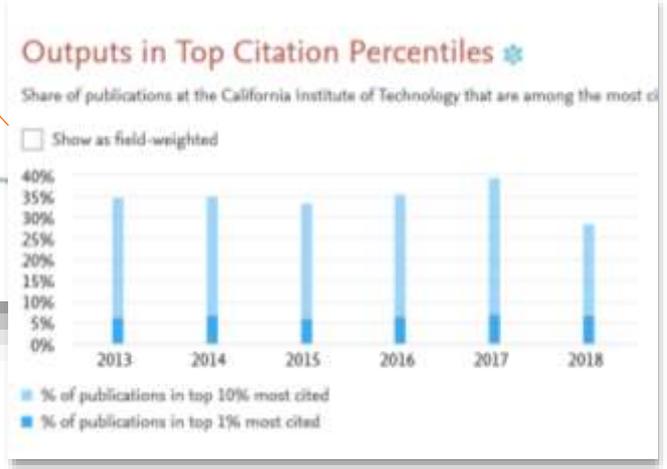
View the disciplinary focus of your institutions and your top researchers

Look through different metrics to identify ones that demonstrates your institution's research excellence



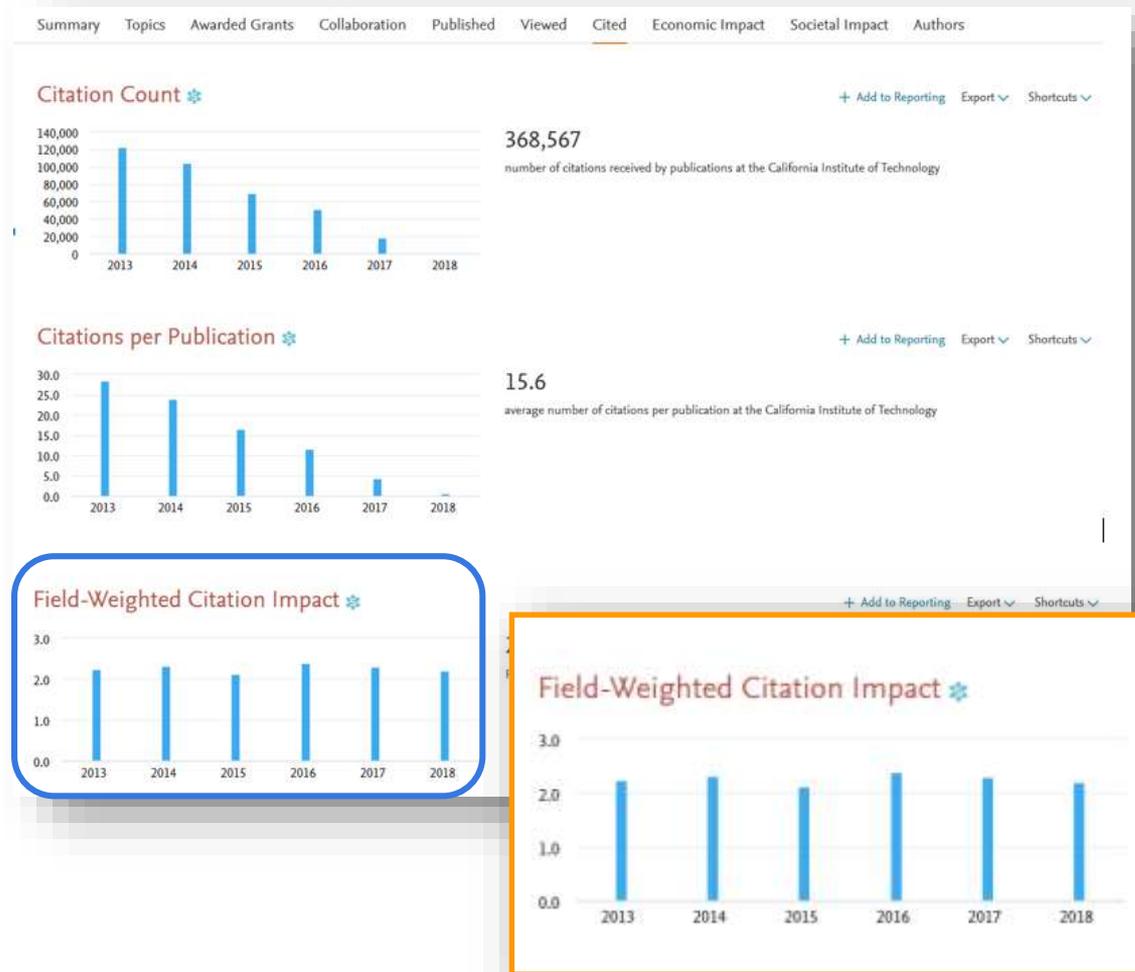
2017
7.1% in top 1% most cited
39.6% in top 10% most cited

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

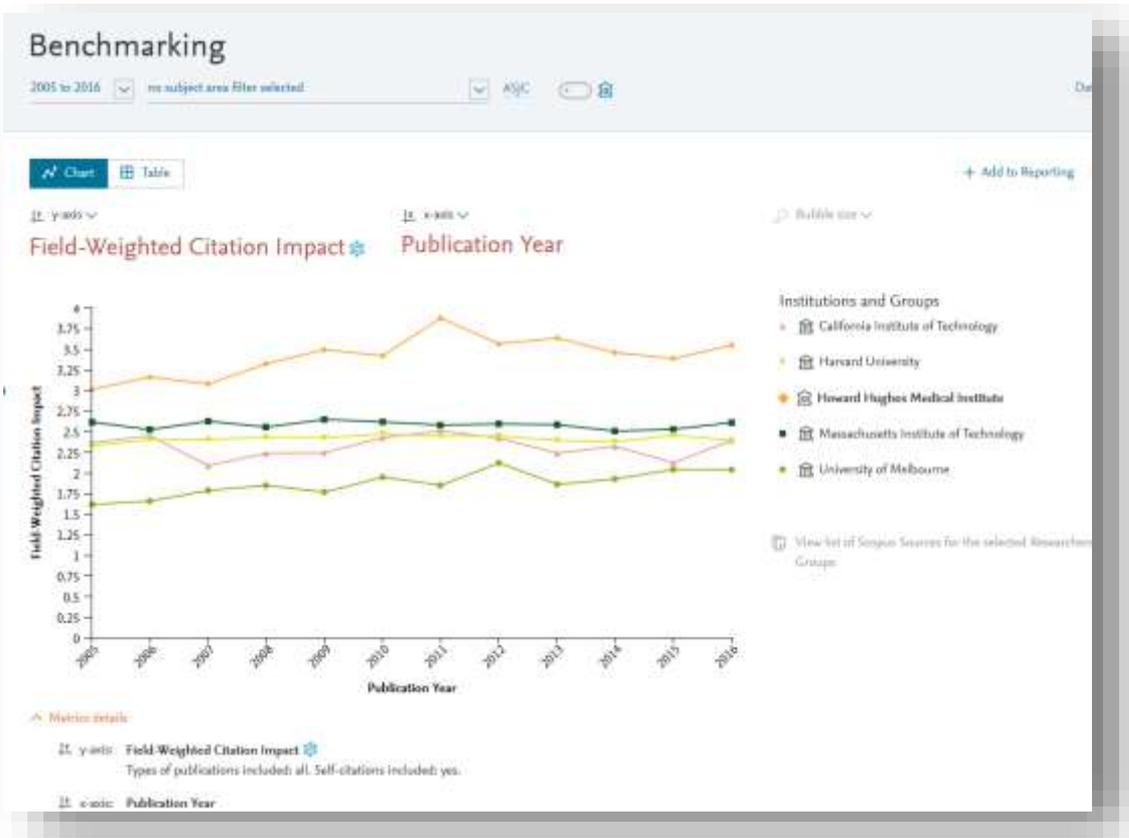
View Field-Weighted Citation Impact that normalizes citation behavior for differences in size, field and publication-type



"I want to explore the various scenarios I'm considering to set up a centre of excellence. How can the data provide me with insights?"



Test scenario by creating virtual teams and compare using multiple metrics



“My VC is going to China; who do our academics collaborate with there and how can we expand?”



Collaboration by the Massachusetts Institute of Technology

United States [View details on this institution](#)

2011 to 2017 [no subject area filter selected](#)

ASJC

Current collaboration Potential collaboration

Institutions collaborating with the Massachusetts Institute of Technology

Worldwide

All sectors

All author numbers

4,242 collaborating institutions 35,545 co-authored publications

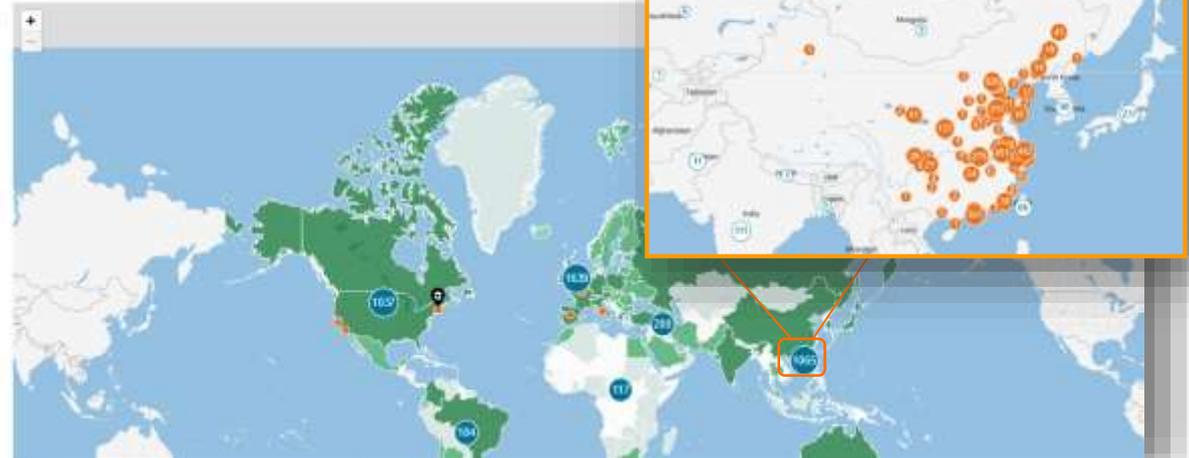
Map Table

Export Shortcuts Find institution

Co-authored publications per country/region

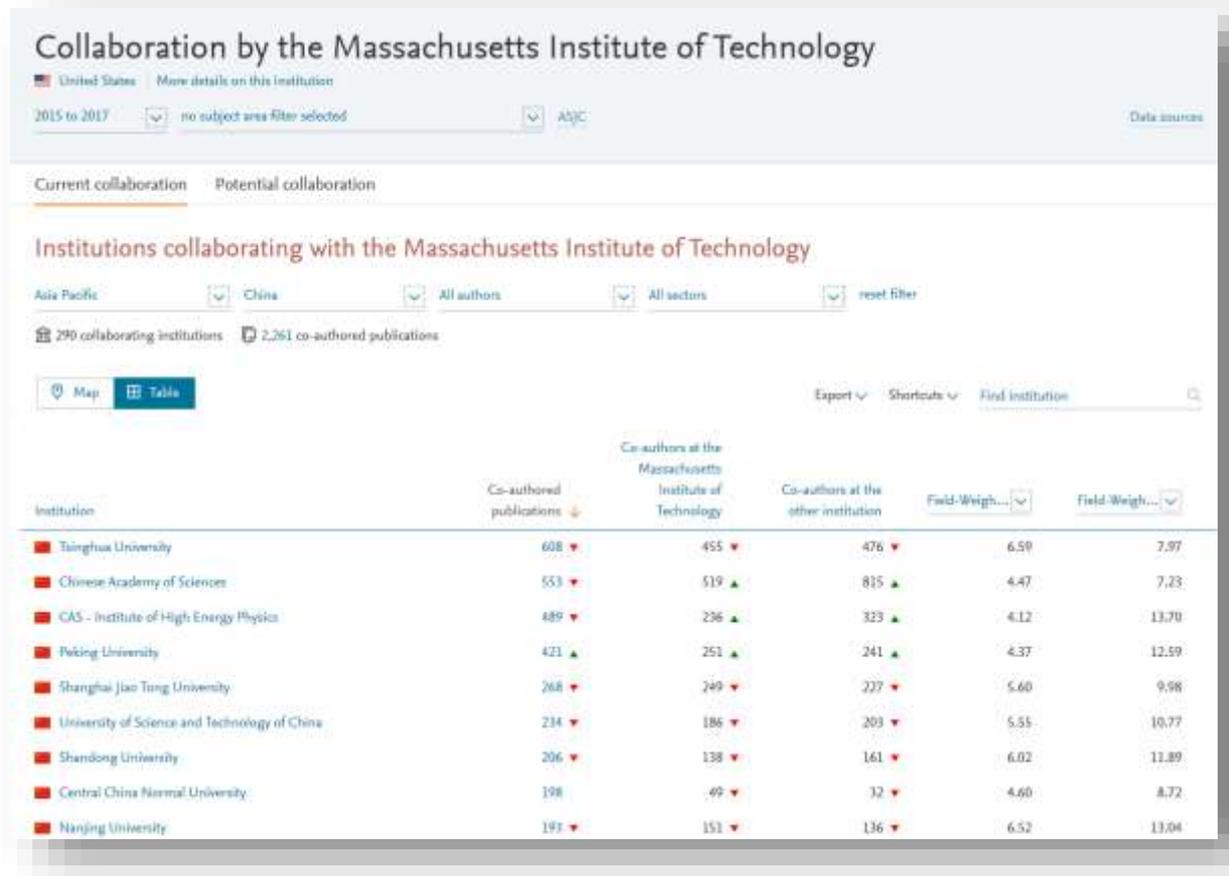
Top 10 institutions worldwide by co-authored publications

0 1-48 49-200 201-1,000 +1,000

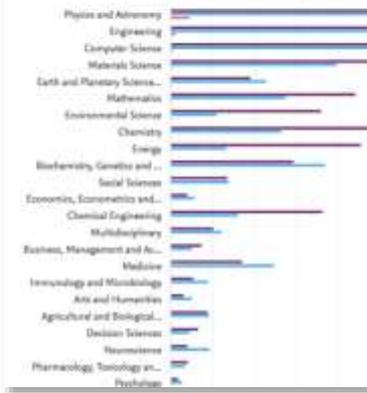
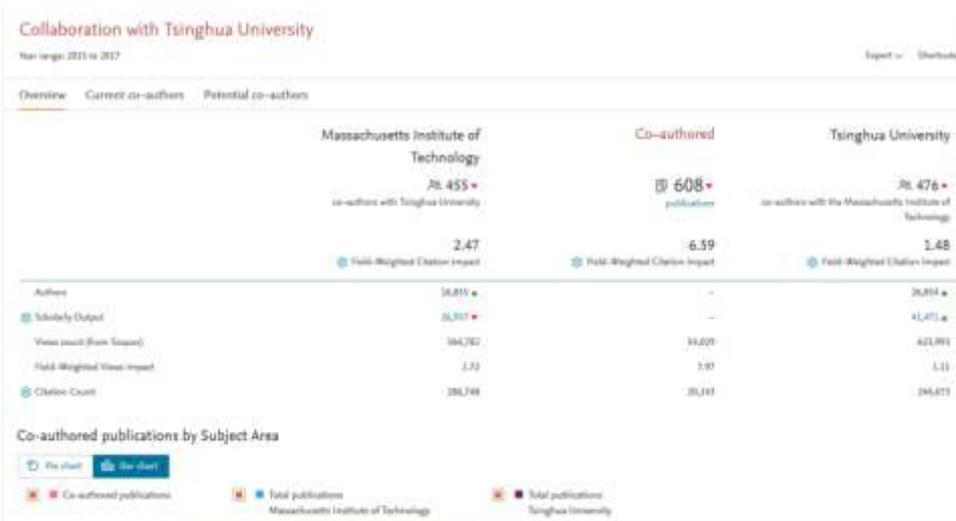


Drill into the map to identify your collaboration partners in China

Identify existing and potential collaboration partners



Assess the activity level and identify researchers



Collaboration with Tsinghua University

Time range: 2015 to 2017

Export | Dashboard

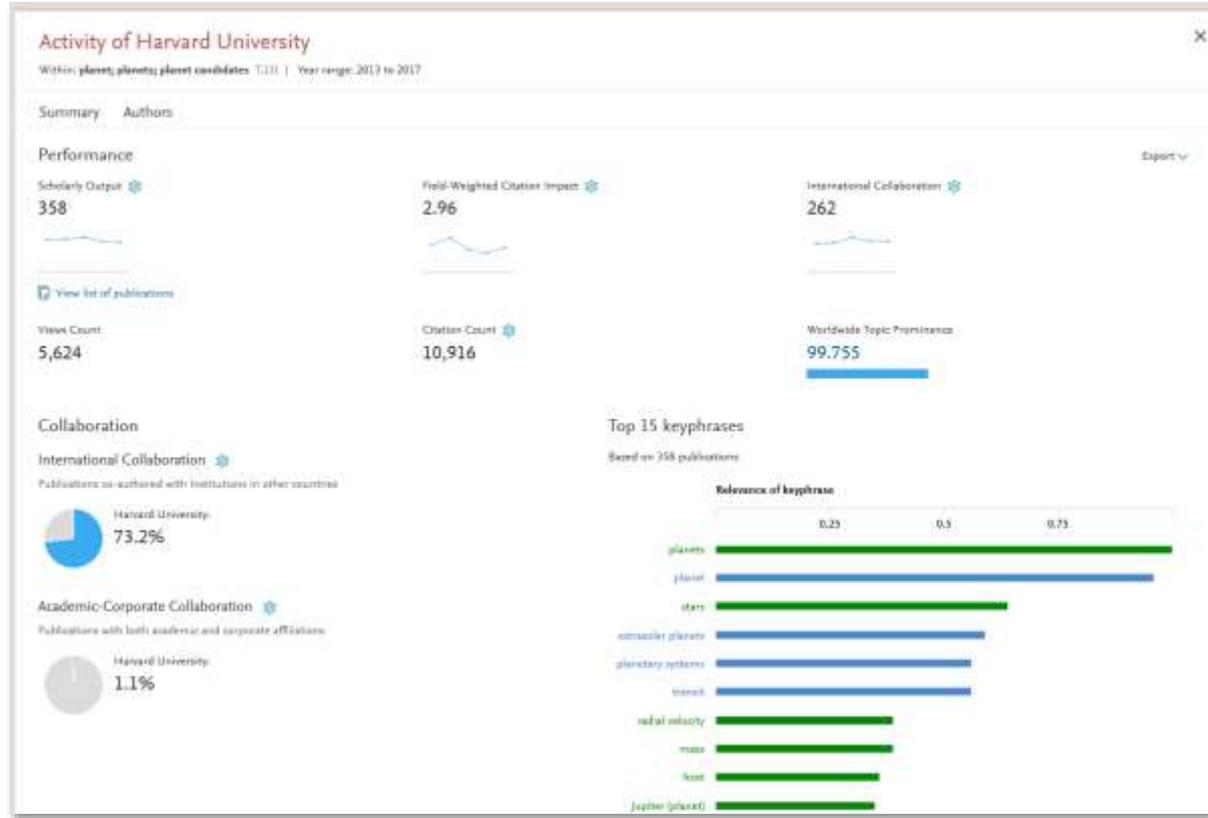
Overview | Current co-authors | Potential co-authors

Search

Massachusetts Institute of Technology			Tsinghua University		
Co-authors with Tsinghua University			Co-authors with the Massachusetts Institute of Technology		
Author	Co-authored publications	Citations	Author	Co-authored publications	Citations
1. Han, Peiyi	100	1,719	1. Guo, Y. S.	177	1,095
2. Williams, Michael E.	100	1,090	2. Peng, Huiwen	173	1,596
3. Rubin, Frank E.	100	1,076	3. Zhang, Guoqing M.	155	2,254
4. Bamzai, Tom	81	1,111	4. An, Jizhao	140	1,018
5. Aggarwal, Shrey	61	1,084	5. Lu, Yueshi	131	1,781
6. Bennett, Lisa	61	1,048	6. Chen, X.	111	1,240
7. Shuman, Paul	61	1,036	7. Zhang, Hong	98	1,113
8. Eick, David C.	61	1,006	8. Zhang, Yan	98	1,097
9. Tracy, Andrew G.	61	1,004	9. Zhu, Binjun	81	404
10. Kozlowski, Peter K.	41	1,191	10. Jing, F. X.	71	1,019
11. Liu, Shouren	41	1,048	11. Jing, P.	68	112
12. Rosenzweig, Elizabeth	41	1,038	12. Liu, Sheng	40	1,046
13. Mariani, Mylon	41	1,006	13. Guo, J.	40	1,021
14. Manton, Ben	41	1,004	14. Liu, Sheng	34	1,111

Analyze all or a specific part of the Research Area

Choose a specific key phrase within the Research Area, then view the performance of the top institutions, countries, authors and journals and compare them to your institution for potential synergies



SciVal. Solution to your strategic planning challenges

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

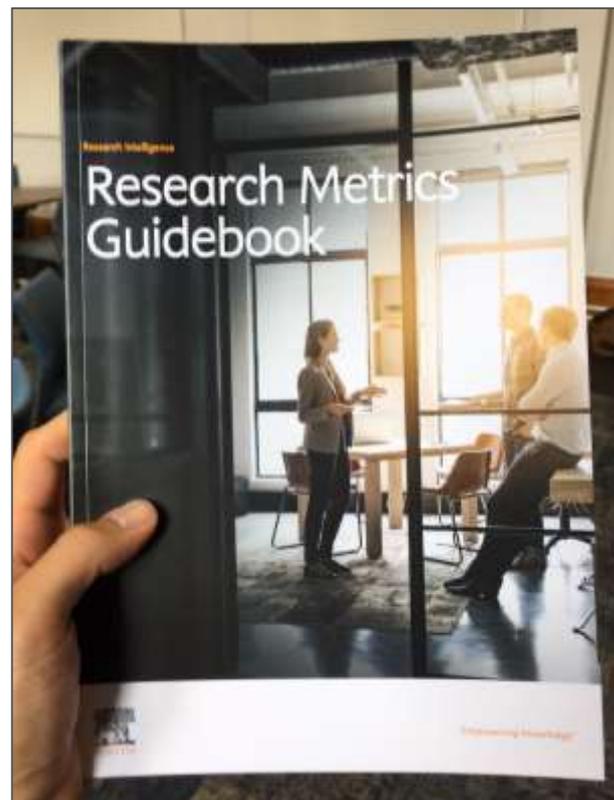
- View the ready-made, at-a-glance snapshot of your research performance or of any team or institution around the world
- Benchmark your team's or institution's performance against any set of peers.
- Model test scenarios by creating virtual teams and newly emerging research areas.
- Evaluate existing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



Considerations around the data and metrics

Research Metrics Guidebook

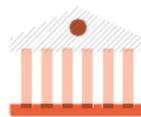
- **Topics** – Expand and enhance
- **Organisational hierarchies in SciVal** – Easy method to create and maintain
- **Reporting** – Simplify, enhance and expand the functionality
- **Improve our metrics support** – Relaunched support hub, refreshed Metrics Guidebook, in-product guidance, reporting templates, 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



4.0 SciVal and research metrics

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Two Golden Rules for using research metrics

Always use both qualitative and quantitative input into your decisions

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**

Always use more than one research metric as the quantitative input

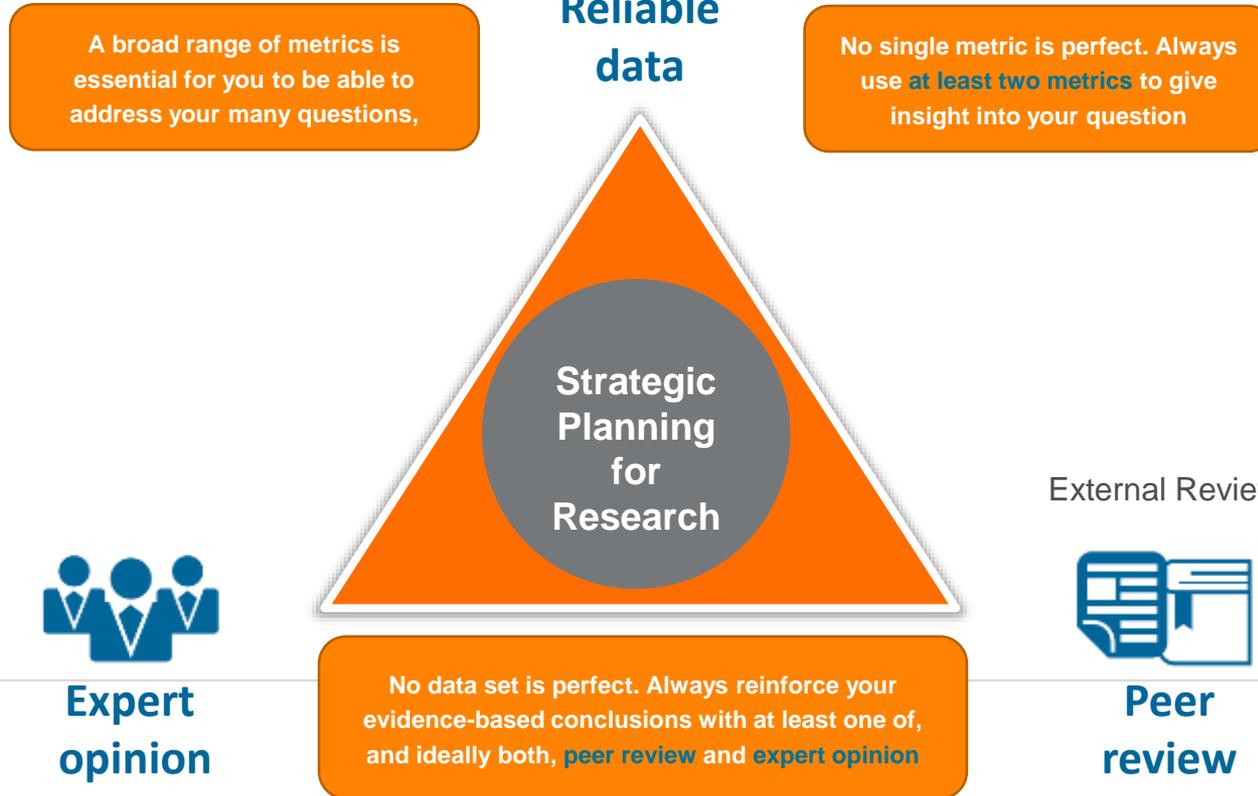
One metric's strengths can **complement** the weaknesses of others

There are many different ways of being excellent

Using multiple metrics drives desirable changes in behaviour (harder to game)

The importance of triangulation

Elsevier Research Intelligence



How to choose a metric

There are **6 factors**, which can affect the value of a metric:

- Size
- Publication-type
- Manipulation
- Discipline
- Database coverage
- Time

	Size-normalized?	Field-normalized?	Publication-type normalized?	Resistant to database coverage?	Difficult to manipulate?	Time-independent?
Academic-Corporate Collaboration	Diagonal lines				Dark purple	Dark purple
Academic-Corporate Collaboration Impact	Dark purple					
Awards Volume					Dark purple	Dark purple
Citation Count						
Citations Per Publication	Dark purple					
Cited Publications	Diagonal lines					
Citing-Patents Count					Dark purple	
Collaboration	Diagonal lines				Dark purple	Dark purple
Collaboration Impact	Dark purple					
Field-Weighted Citation Impact	Dark purple	Dark purple	Dark purple	Dark purple	Dark purple	
Field-Weighted Mass Media	Dark purple	Dark purple	Dark purple	Dark purple	Dark purple	Dark purple
Field-Weighted Views Impact	Dark purple	Dark purple	Dark purple	Dark purple	Dark purple	Dark purple
h-Indices						
Mass Media					Dark purple	Dark purple
Media Exposure	Dark purple				Dark purple	Dark purple
Number of Citing Countries					Dark purple	

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

Disciplinary 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



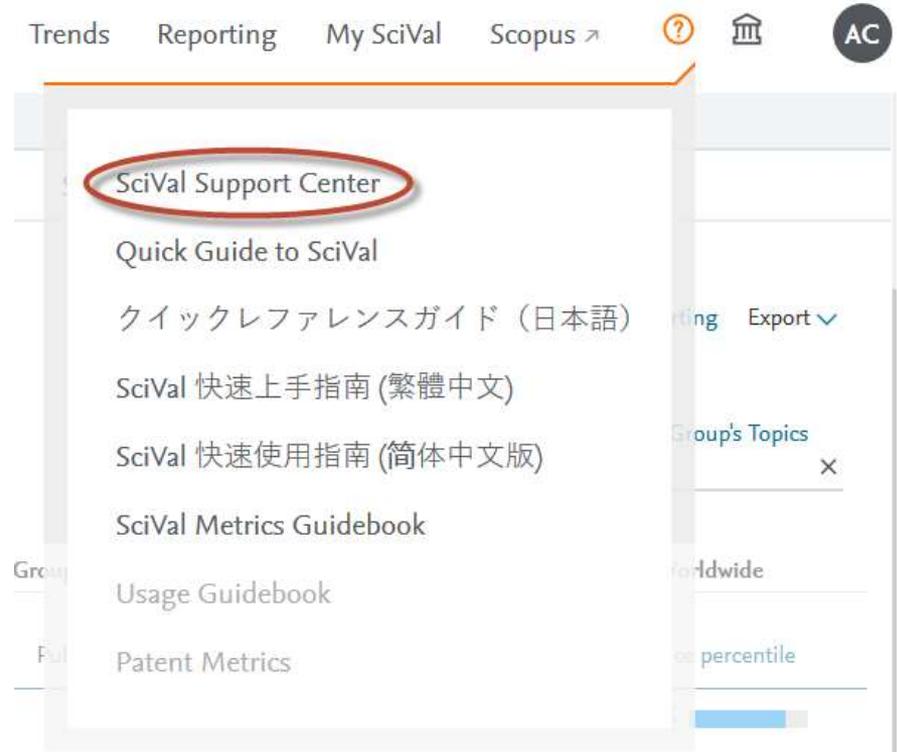
Location and content of the help files

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. name@Elsevier.com or <phone number>.



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- 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

What’s new in SciVal?

New in this release
September 2018, code name: Sagan

- **Diacritic support.** To help you find an institution faster, we have enhanced the way we display institution names. We will support local language characters, multiple name variations for an institution (English and up to two local name variations) and a common acronym.
- **Reporting enhancements.** You can now add an analysis directly to an existing Report, or create a new Report within the module you're using.
- **Enhanced flow to define Research Areas.** We've simplified the search options when defining a Research Area and included an advanced search for our power users.

[See the list of previous releases >](#)
[Check out SciVal roadmap >](#)

Quick guide to SciVal
Get a quick overview of SciVal, how you can use it and how it can help you.

1. [Getting started with SciVal >](#)
2. [Working with entities >](#)
3. [Using SciVal for strategic planning >](#)

Need help?
[Go to SciVal Support Center >](#)
[Contact the helpdesk >](#)

Latest webinars

- [Thinking outside the box: Analyze your research activities globally with SciVal >](#)
- [SciVal Reporting: Simple, time-saving tips & tricks >](#)
- [SciVal API - What is it & how can I use it? >](#)
- [Delving Deeper into Topic Prominence in Science >](#)
- [Introduction to SciVal's Topic Prominence in Science >](#)

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Have you seen the latest updates to our Reporting functionality? You can now add an analysis directly to an existing Report, or create a new Report within the module you're using. [More >](#)

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SciVal's Sagan release is now LIVE! Diacritic support, to help you find an institution faster, can have...

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