

Good Day! We'll start soon!



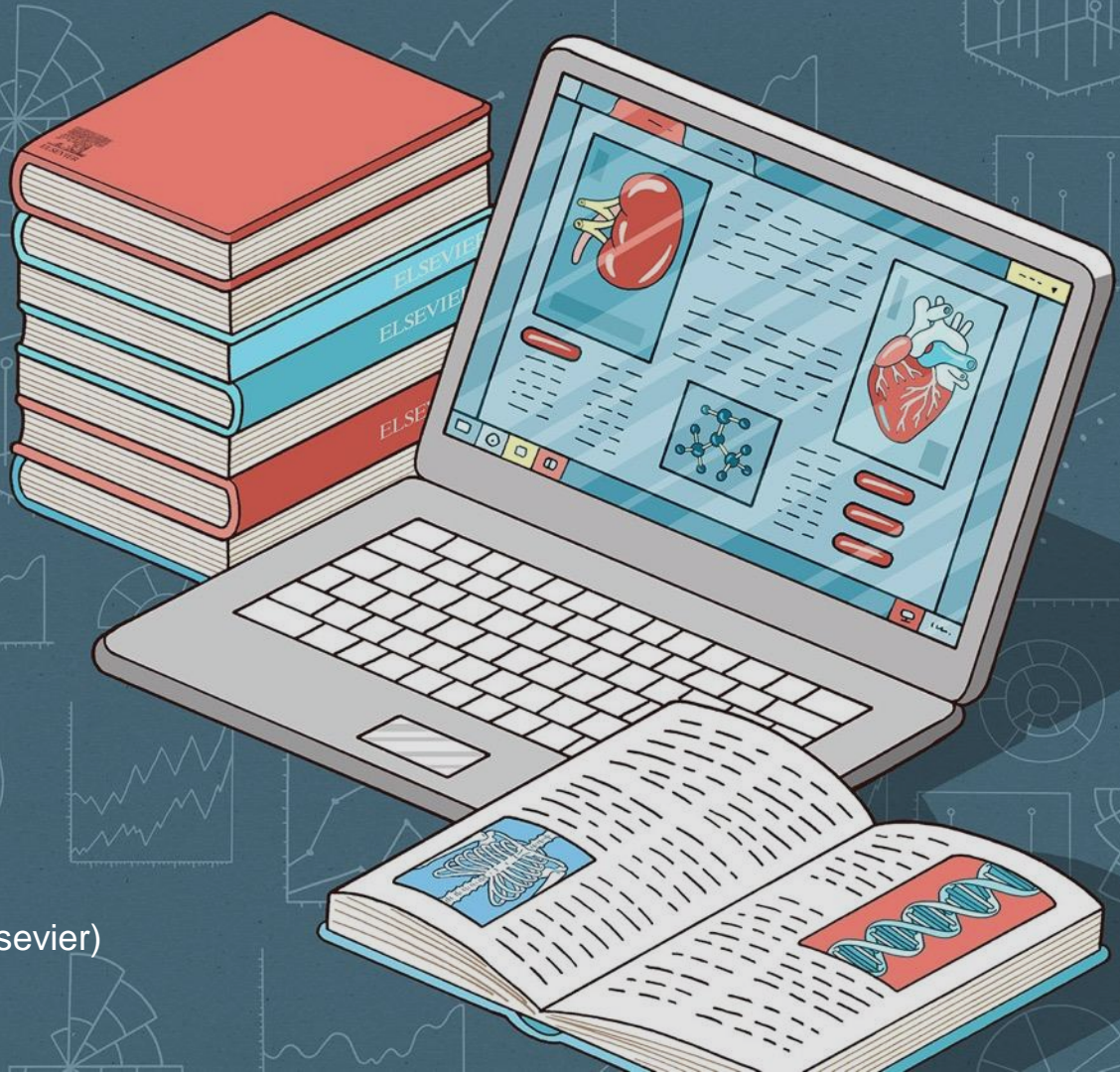


SciVal training

Edith Cowan
University

June 25th, 2024

Galina Yakshonak, Expert on Analytics (Elsevier)



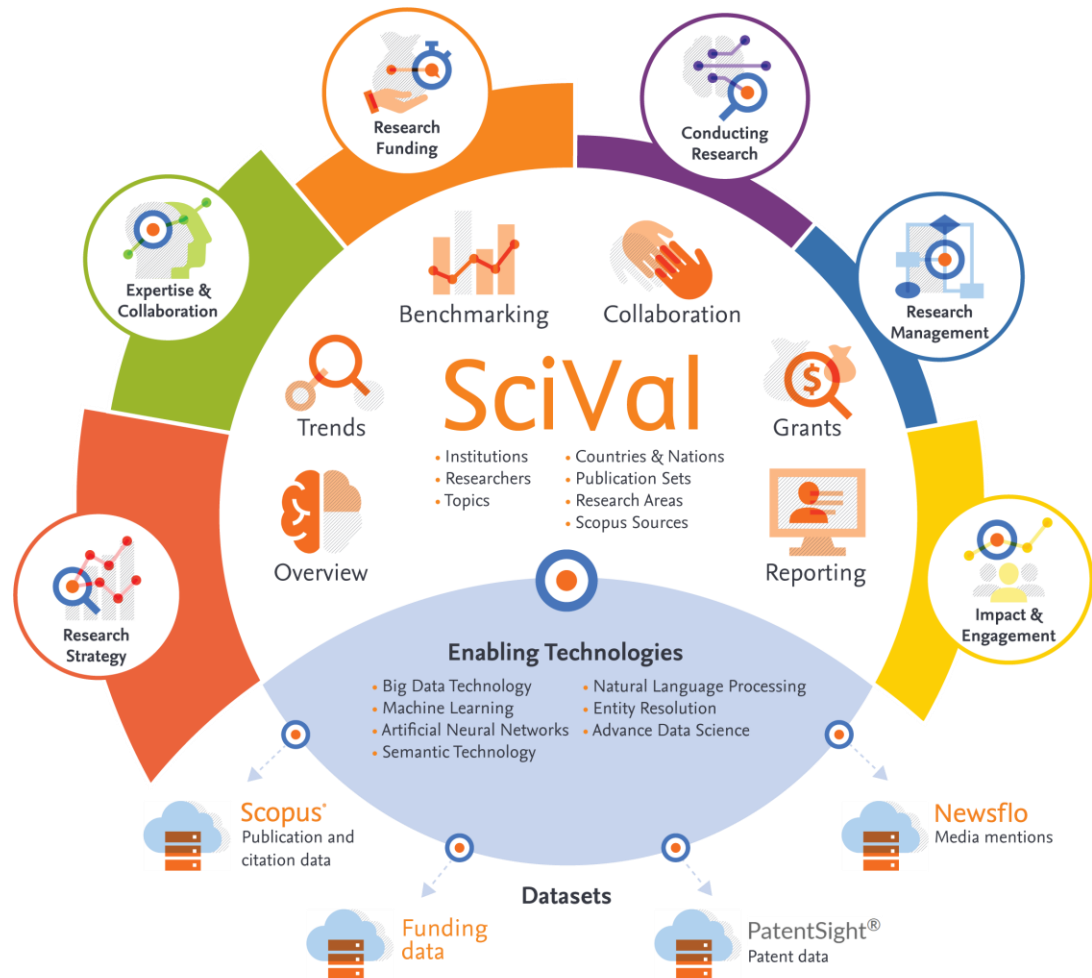
SciVal

Entities available to analyze

- +24,000 Institutions from over 234 nations
- +17M Researchers
- ~ 96,000 Topics
- Research Areas
- Publication Sets
- Scopus Sources

Over 300 trillion metric values

Data *updated weekly*



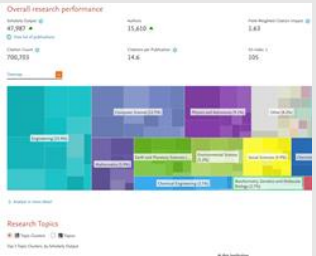
SciVal

Insightful analyses to inform research strategy and enhance research success

SciVal provides access to the research performance of more than 24,000 research institutions and their associated researchers from 234 nations worldwide

Visualize research performance

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



Benchmark your progress

Flexibility to create and compare any research group or entity of interest



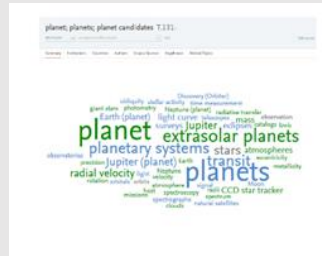
Develop collaborative partnerships

Identify and analyze existing and potential collaboration opportunities



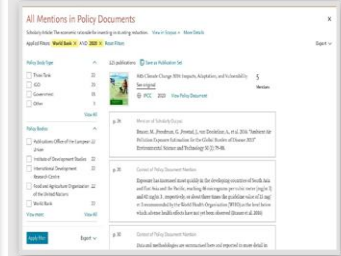
Analyze research trends

Analyze research trends to discover the top performers and rising stars

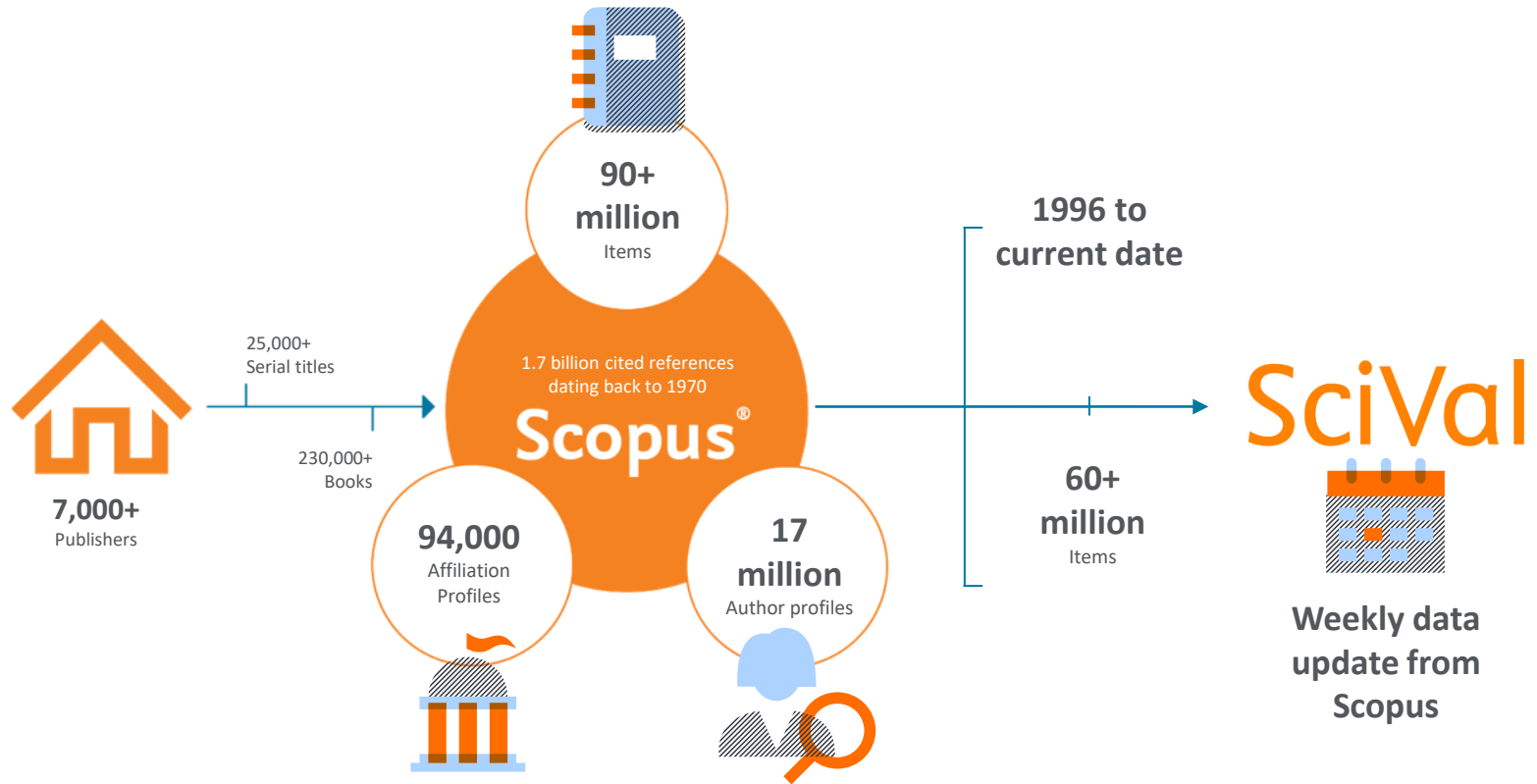


Showcase your impact

Uncover and demonstrate the broader impact of your research on society

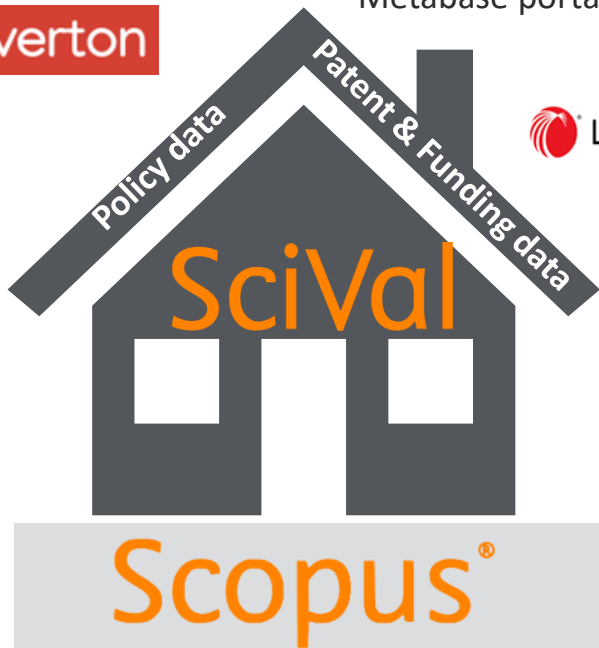


Scopus is a source-neutral abstract and citation database curated by independent subject matter experts.




Data and technology at the heart of SciVal

Overton



Media data from LexisNexis
Metabase portal

 LexisNexis® IP DirectData

Data sources



⚠ Weekly metrics recalculation is running
[Learn more about the calculation](#)

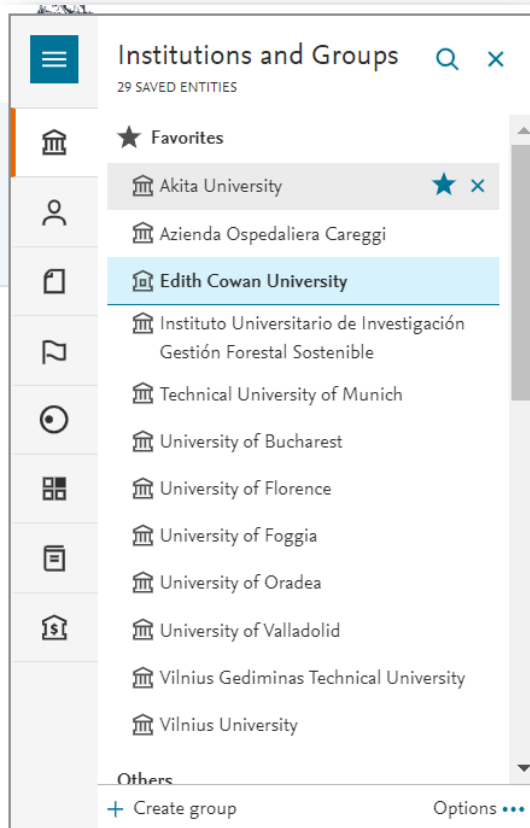
Data source	Up to
Default data source Scopus	up to 12 Jun 2024
Views data source Scopus	up to 12 Jun 2024
Policy data source Overton	up to 07 Jun 2024
Media Source-type LexisNexis Metabase	up to 09 Jan 2024
Funding data Learn more	up to 13 Jun 2024
Patent data Learn more	up to 28 May 2024

The **Data Sources** button in the Heading opens a side panel with more information about data sources and their respective update schedules.

SciVal receives a **Weekly Update** of new data from Scopus. Other data types each have a different update schedule.

[Learn more about data sources](#)

Entities




What is an entity?

- Anything you want!
- From **1 paper** to the **whole world** of content from Scopus (1996 to present)
- **Predefined**
 - e.g. Institutions (groups), Researchers (groups), Topics, Research Areas etc.
- **User defined**
 - e.g. Research Areas, Groups of Researchers, Publication Sets etc.
- **Publication sets** are a fixed list of documents (50k upload and 100k max)
- **Research Areas** are a live search (max 100k docs) – updated weekly

Available year ranges in SciVal

Explore / OV, COL, TR, IM, GR

Compare / Benchmarking

2018 to 2024 

2020 to 2022

2020 to 2023

2020 to 2024

2018 to 2022

2018 to 2023

2018 to 2024

2013 to 2022

1996 to 2024  All subject areas

From: 1996 to 2024

1996 2024



1996 2024

[Apply >](#)

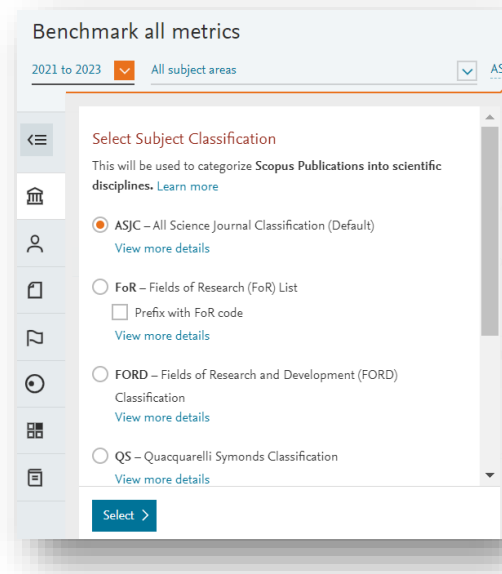


Annually changed in the middle of the year

Subject areas / Research Fields

In SciVal, you can choose from the following Subject **Classifications**:

- **ASJC** - All Science Journal **Classification**: 27 subject areas and 300+subject categories. Used in Scopus. This is the default scheme in SciVal. [Learn more](#)
- **FoR** - Fields of Research (FoR) List: Part of the 2020 Australian and New Zealand Standard Research **Classification** (ANZSRC). Each FoR subject area is mapped to one or more Scopus sources.
- **FORD** - Fields of Research and Development (FORD) **Classification**: Used in the Frascati Manual of the Organisation for Economic Co-operation and Development (OECD). Each FORD subject area is mapped to one or more ASJCs, plus a selection of individual Scopus sources.
- **KAKEN** – Database of Grants-in-Aid for Scientific Research: KAKEN category definitions are used by the Japanese Kaken Program and covers approximately 300 categories organized into 4 levels. Each KAKEN subject area is mapped to one or more ASJCs.
- **QS** - Quacquarelli Symonds **Classification**: This **classification** is used in QS World University Rankings. It covers 5 subject areas and 51 subjects. Each QS subject area is mapped to one or more ASJC.
- **THE** - Times Higher Education **Classification**: This **classification** is used in the THE World University Rankings. It covers 11 subject areas mapped to ASJC. Each subject area is mapped to one or more ASJC.
- **SDGs** - Sustainable Development Goals **Classification**: This **classification** is based on United Nations SDGs. It is created using the Elsevier 2023 SDG mappings. It is currently available only in Benchmarking and Impact. Each SDG subject area is mapped to one or more Scopus publications. [Learn more](#)
- **POL** - Polish **classification**: This **classification** is used by the Polish Ministry. It covers 44 key areas of focus in Poland. It is currently available only in Benchmarking and Impact. Each Polish subject area is mapped to one or more Scopus sources. [Learn more](#)



Download the subject classification definition, Subject areas and mappings:

https://service.elsevier.com/app/answers/detail/a_id/21717/supporthub/scival/kw/classification/

Pre-defined Research areas and Curated Research topics

The screenshot displays the SciVal web interface. At the top, navigation links include 'Explore', 'Compare', 'Reporting', 'My SciVal' (highlighted with an orange box), and 'Scopus'. A search bar is located below the navigation. On the left, a sidebar lists 'Research Areas' from SDG 1 to SDG 14, with SDG 9 'Industry, Innovation and Infrastructure (2023)' highlighted by an orange box. The main content area shows a search bar with 'All entities in SciVal' selected in a dropdown menu (also highlighted with an orange box). Below the search bar, a toolbar contains 'Add to panel', 'Tags', 'Share', 'Edit', 'Delete', and 'Organize'. A table with columns 'Name' and 'Tags' is visible, containing a list of research topics under the 'Curated Research Areas' section, which is expanded with a dropdown arrow. The topics listed are: 'Artificial Intelligence - based on Elsevier AI Report methodology', 'COVID-19 Research', 'General Coronavirus Research', 'mpox (monkeypox)', 'Net Zero', 'Publications with datasets indexed in Data Monitor', and 'Quantum Communications'. A 'Feedba' button is partially visible at the bottom right.

SciVal

Explore Compare Reporting My SciVal Scopus

Search

All entities in SciVal Tags

Add to panel Tags Share Edit Delete Organize

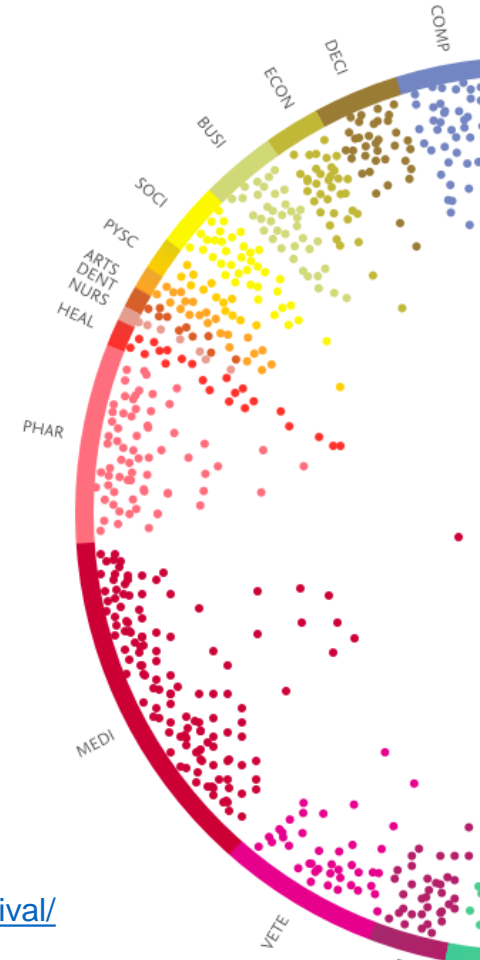
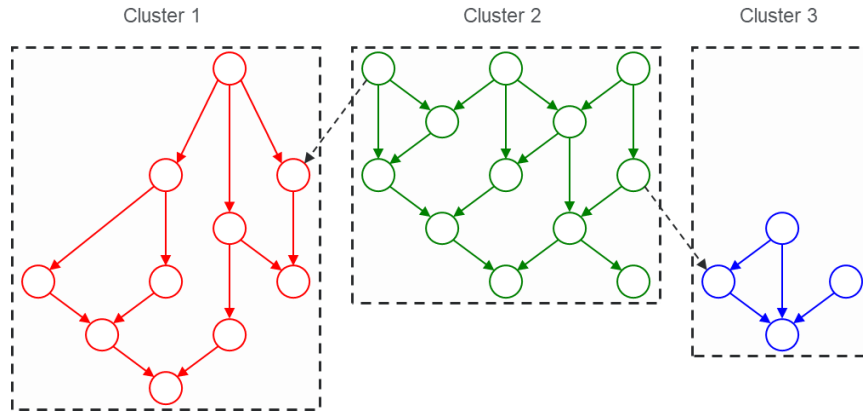
Name	Tags
> China SCADC Subject Categories	
> Curated Research Areas	
Select all	
<input type="checkbox"/> Artificial Intelligence - based on Elsevier AI Report methodology	
<input type="checkbox"/> COVID-19 Research	
<input type="checkbox"/> General Coronavirus Research	
<input type="checkbox"/> mpox (monkeypox)	
<input type="checkbox"/> Net Zero	
<input type="checkbox"/> Publications with datasets indexed in Data Monitor	
<input type="checkbox"/> Quantum Communications	

Clean this section

Feedba

Topics of Prominence

- All Scopus publications are clustered into topics using citation links
- 1996-present in ~96,000 topics / ~1,500 clusters
- Prominence being a new indicator that shows the current momentum of a topic by looking at **very recent** citations, views and CiteScore values.




















Metrics in SciVal

An array of metrics

SciVal provides over 80 metrics to facilitate performance analysis across different themes such as output, impact, engagement, and funding.

 The information icon leads to metrics definitions and guidance

Metric theme	Metric sub-theme	Metrics in SciVal		
F. Qualitative input	A. Funding	Awards	<ul style="list-style-type: none"> Awards Volume and Count 	
	B. Outputs	Productivity of research outputs	<ul style="list-style-type: none"> Scholarly Output  Number, Type and Growth Subject Area Count 	
		Visibility of communication channels	<ul style="list-style-type: none"> Publications in Top Journal Percentiles  	
	C. Research Impact	Research influence	<ul style="list-style-type: none"> Citations Count  Field-Weighted Citation Impact  Outputs in Top Citations Percentiles  Citations per publication  Cited publications <i>h</i>-indices  	<ul style="list-style-type: none"> Number of citing countries Views Count Outputs in Top Views Percentiles Views per Publication Field-Weighted Views Impact
		Knowledge transfer	<ul style="list-style-type: none"> Academic-Corporate Collaboration  Citing-Patents Count Patent-Cited Count 	
	D. Engagement	Academic network	<ul style="list-style-type: none"> Collaboration  Collaboration Impact  	
Non-academic network		<ul style="list-style-type: none"> Academic-Corporate Collaboration  Academic-Corporate Collaboration Impact  		
Expertise transfer		<ul style="list-style-type: none"> Academic-Corporate Collaboration  Citing-Patents Count Patent-Cited Count 		
E. Societal Impact	"Societal Impact"	<ul style="list-style-type: none"> Policy cited output Citing policy output 	<ul style="list-style-type: none"> Mass Media Media Exposure  Field-Weighted Mass Media 	



The Metrics Guidebook and the Usage Guidebook discuss each SciVal metric in detail. The guidebooks also offer suggestions on how and when to apply each metric.

Two guiding principles 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**

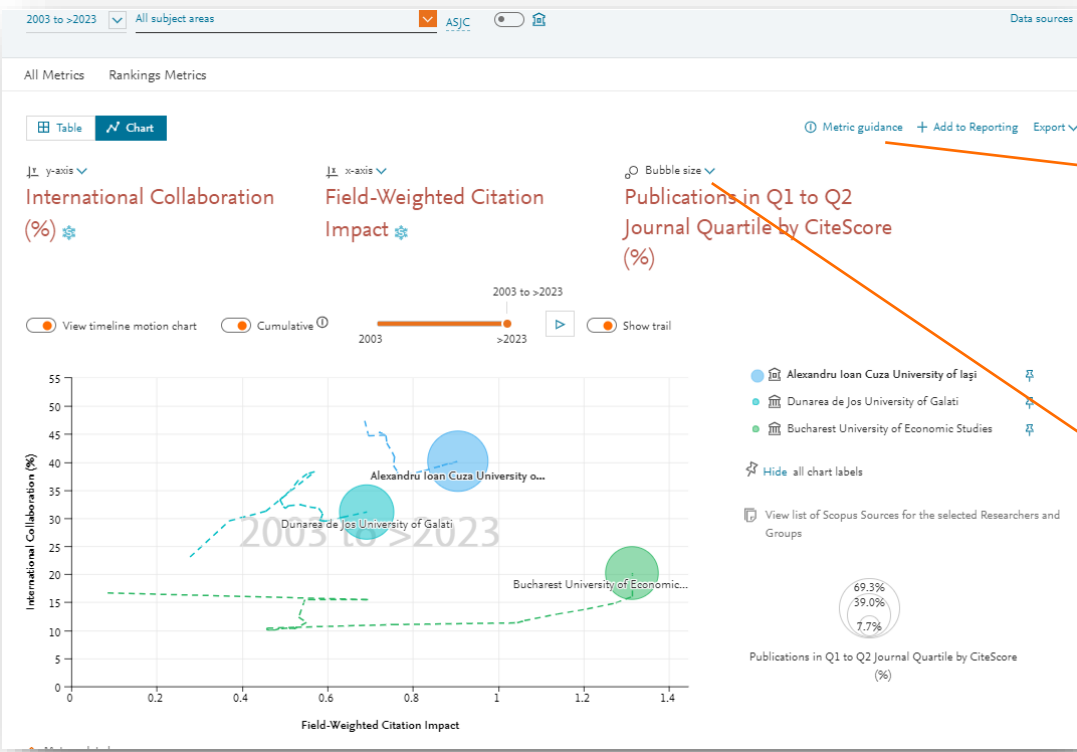
Valuable intelligence comes when these approaches **show different messages**

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)



SciVal Metrics

Collaboration

The extent of international, national and institutional co-authorship.

Read more >

Field-Weighted Citation Impact

The ratio of citations received relative to the expected world average for the subject field, publication type and publication year. The world average FWCI is 1.00. Note: for entities with a small scholarly output, please beware of highly cited publications which may skew the FWCI.

Read more >

Publications in Journal Quartiles

The number of publications of a selected entity that have been published in the selected journal quartiles.

Read more >

Search metric

- Collaboration
- Published
- Viewed
- Cited
- Citation Count
- Field-Weighted Citation Impact
- Outputs in Top Citation Percentiles
- Publications in Journal Quartiles
- Publications in Top Journal Percentiles
- Citations per Publication
- Cited Publications
- h-indices
- Number of Citing Countries
- Collaboration Impact
- Academic-Corporate Collaboration Impact

Field-Weighted Citation Impact

The ratio of citations received relative to the expected world average for the subject field, publication type and publication year. The world average FWCI is 1.00. Note: for entities with a small scholarly output, please beware of highly cited publications which may skew the FWCI.

Learn more about this metric >

Include self-citations

Include:

- All publication types
- Articles only
- Articles and conference papers
- Articles and reviews
- Articles, reviews and conference papers
- Articles, reviews, conference papers

Choose metric >

Variety of metrics and options to choose, with rich information about each metric directly into the page you're looking at within all modules

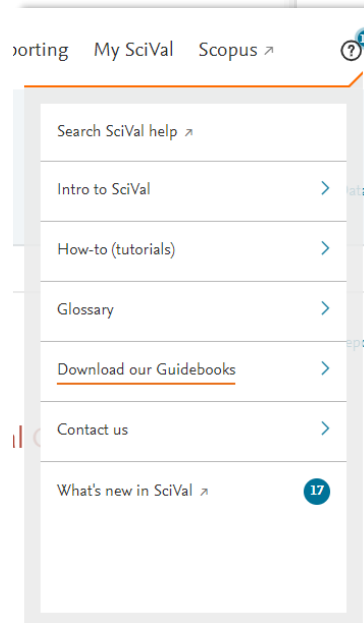


Research Metrics Guidebook

https://elsevier.widen.net/s/chpzk57rqk/acad_rl_elsevierresearchmetricsbook_web

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



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	

Reporting – create quick reusable reports and templates

SciVal

Explore Compare **Reporting** My SciVal Scopus 21

Reporting library

Analyses and Reports Report templates

Search All Analyses only Reports only

Open / Edit Copy Merge Share Delete Export Save as a template Create new

<input type="checkbox"/>	Name	Entity	Last updated
<input type="checkbox"/>	> Summary for Publications at Amity University, Kolkata		

View and edit report

Report on Research Performance of Amity University, Kolkata

Add subtitle (optional)

Publications at Amity University, Kolkata 2018 to 2024

Add description (optional)

Summary metrics

Entity: Publications at Amity University, Kolkata · Within: All subject categories · Data source: Scopus, up to 13 Mar 2024 · Explore / edit analysis

838 Scholarly Output 24.0% Open Access	1,837 Authors	0.96 Field-Weighted Citation Impact
--	------------------	--

- Save Report
- Save as a template
- Save as a snapshot (PDF)
- Export to a spreadsheet file (CSV)
- Export to a spreadsheet file (XLSX)
- Export as a PDF file
- Export as a Word document (DOCX)
- Share

- Many analyses from Explore and Compare
- Up to 20 analyses per report
- Multiple export and sharing options
- Create or use report templates

My SciVal – View and manage all entities

The screenshot displays the My SciVal interface. At the top, the SciVal logo is on the left, and navigation links for Explore, Compare, Reporting, My SciVal (highlighted with an orange box), and Scopus are on the right. A notification icon with '21' and a user profile icon are also present.

On the left sidebar, under 'Countries, Regions and Groups', there is a 'Favorites' section with a list of countries: Bulgaria, Croatia, Czech Republic, Hungary, Moldova, Poland, Romania, Serbia, Slovakia, and Slovenia. Below this is an 'Others' section with Austria, Azerbaijan, Belarus, and Brazil. A 'Clean this section' link is at the bottom of the sidebar.

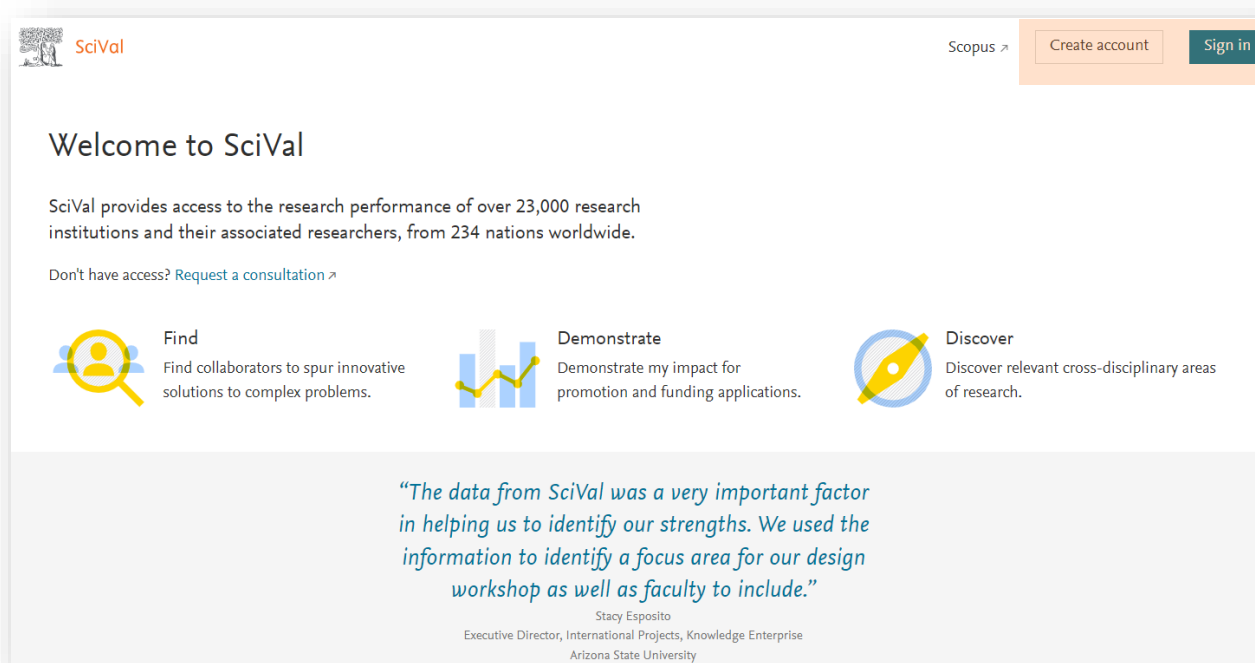
The main content area is titled 'My SciVal' and includes a sub-header 'Manage your Countries, Regions and Groups'. There is a search bar and three tabs: 'All Entities' (selected), 'Single Entities', and 'Group Entities'. Below the search bar, there are three dropdown menus: 'All entities in SciVal', 'Tags', and 'All Country Groups'. A toolbar with icons for 'Add to panel', 'Tags', 'Share', 'Edit', and 'Delete' is highlighted with an orange box.

The main list of entities is as follows:

<input type="checkbox"/>	Name	Tags
<input type="checkbox"/>	> 3G - Global Growth Generators (11)	
<input type="checkbox"/>	> Africa (58)	
<input type="checkbox"/>	> APEC - Asia-Pacific Economic Cooperation (21)	
<input type="checkbox"/>	> ASEAN - Association of Southeast Asian Nations (10)	
<input type="checkbox"/>	> Asia Pacific (59)	
<input type="checkbox"/>	> Baltic states (3)	
<input type="checkbox"/>	> Benelux (3)	
<input type="checkbox"/>	> BRIC - Brazil, Russia, India, China (4)	

At the bottom right of the main content area, there is a 'Feedback' button.

Access SciVal at www.scival.com



The screenshot shows the SciVal website homepage. At the top left is the SciVal logo. At the top right, there is a 'Scopus >' link and two buttons: 'Create account' and 'Sign in'. The main heading is 'Welcome to SciVal'. Below this, a paragraph states: 'SciVal provides access to the research performance of over 23,000 research institutions and their associated researchers, from 234 nations worldwide.' A link 'Don't have access? Request a consultation >' is provided. Three main features are highlighted: 'Find' (Find collaborators to spur innovative solutions to complex problems.), 'Demonstrate' (Demonstrate my impact for promotion and funding applications.), and 'Discover' (Discover relevant cross-disciplinary areas of research.). A quote from Stacy Esposito, Executive Director of International Projects at Arizona State University, is displayed in a light blue box: 'The data from SciVal was a very important factor in helping us to identify our strengths. We used the information to identify a focus area for our design workshop as well as faculty to include.'



If you haven't previously registered for Scopus or ScienceDirect then please go to **Register Now.**

SciVal Demo

Select entity for analysis



SciVal 10

Entity list

Search entities

+ Define entity

Edith Cowan University

Explore

Compare

Reporting

My SciVal

Scopus



Edith Cowan University

Institution | Australia | More details on this Institution

2018 to 2024

All subject areas

ASJC

Report from template

Data sources

Summary

Bibliometrics

Publication metrics

Citation metrics

Views metrics

Journal quartiles

Contribution

Authors

Scopus Sources

Research Fields

Topics

Research Areas

Subject Areas

Summary

Summary metrics

10,171 ▲

Scholarly Output ⓘ

54.6% All Open Access

View list of publications

2,517 ▲

Authors

Download full list of authors

1.79

Field-Weighted Citation Impact ⓘ

Yearly breakdown

176,976

Citation Count ⓘ

17.4

Citations per Publication ⓘ

101

h5-index ⓘ

Publication share by Subject Area

Bar Chart

+ Add Summary to Reporting

Export

+ Add to Reporting

+ Add to Reporting

Feedback

Select entity for analysis



SciVal 10



Entity list



Search entities



Define entity



Edith Cowan University

Explore

Compare

Reporting

My SciVal

Scopus



23

GY

Edith Cowan University

Institution | Australia | More details on this Institution

Report from template

2018 to 2024



Data sources

Summary

Research Fields

Topics

Research Areas

Subject Areas

SDGs

Rankings

Ranking positions

QS World University

Rankings

THE World University

Rankings

SDGs (Sustainable Development Goals)

Metric guidance + Add to Reporting Export

The United Nations Sustainable Development Goals (SDGs) challenge the global community to build a world where no one is left behind. [Learn more](#)

The listed SDGs are based on the [Elsevier 2023 SDG Mapping](#)



Table



Bar chart



Relative Activity Chart

SDG

Scholarly Output

Field-Weighted Citation Impact

Citation Count

SDG 1: No Poverty

44

0.97

356

SDG 2: Zero Hunger

106

1.59

1,707

SDG 3: Good Health and Well-being

1,726

2.02

34,299

Select entity for analysis

SciVal 10

Entity list

Search entities

+ Define entity

Edith Cowan University

Explore

Compare

Reporting

My SciVal

Scopus



Edith Cowan University

Report from template

Institution | Australia | More details on this Institution

1996 to 2023

Policy Coverage | Data sources

All subject areas

ASJC

- Summary
- Collaboration
 - Collaboration metrics
 - Geographical collaboration
 - Sector collaboration
 - Current collaborators
 - Potential collaborators
- Impact
 - Policy Impact**
 - Output cited by Policy
 - Citing Policy Documents
 - Patent Impact
 - Output cited by Patents
 - Citing Patents
 - Patent metrics

Policy Impact

Summary metrics

2,584

Scholarly Output cited by Policies



View list of publications

Analyze in more detail

5,143

Citing Policy Documents

View list of Citing Policy Documents

556

Policy Body Count

View list of Policy Bodies

13.7%

Scholarly Output cited by Policies

2,584 of 18,881 publications

7,811

Policy Citation Count

81

Policy Document Countries Count

+ Add to Reporting | Export

Feedback

Select entity for analysis



SciVal 10

Entity list

Search entities

+ Define entity

Edith Cowan University

Explore

Compare

Reporting

My SciVal

Scopus



Edith Cowan University

Institution | Australia | More details on this Institution

Report from template

2018 to 2024

All subject areas

ASJ

Data sources

Summary

Policy impact

Output cited by Policy

Citing Policy Documents

Patent Impact

Output cited by Patents

Citing Patents

Patent metrics

Media metrics

Funding

Awards metrics

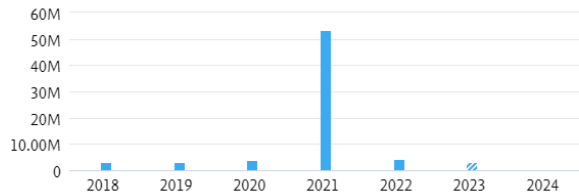
Awards by Subject Area

Awards by Funding Body

Publications by Funding Body

Awards metrics

Awards Value (USD)



Incomplete year

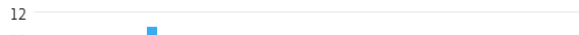
71M USD

value of awards at Edith Cowan University

Learn more about this metric and how we capture funding data

+ Add to Reporting Export

Awards Count



55

+ Add to Reporting Export

Feedback



SciVal 10

Entity list

Search entities

+ Define entity

Edith Cowan University

Australian Research Council ☆

Funding Body

2018 to 2024



All Grant Types



All Grant Values



Funding

Funding summary

Funded Institutions

Funded Topics

Grant categories

Linked publications

Funding summary

for Grants awarded to Institutions in **Australia**

Funding Trends

Overall trend In geographical context

3,754,776,391

Annualized Awarded Grants Value (USD) ⓘ



Value allocation details

3,494,352,768

Awarded Grants Value (USD) ⓘ



7,075

Awarded Grants Count



View list of Grants

312,442

Median amount per Grant (USD)



190

Awardee Institutions



View Institutions

Funding Bodies

Search X

4 SAVED ENTITIES

Australian Research Council ☆ X

European Commission

National Institute for Health and Care Research

National Natural Science Foundation of China

Explore

Compare ▾

Reporting

My SciVal

Scopus ↗



Funding Bodies covered

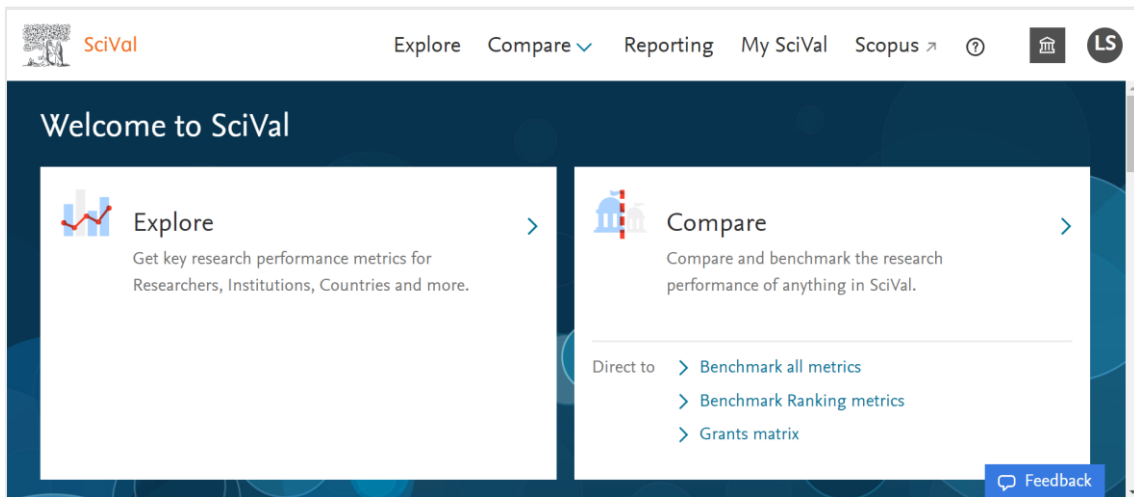
+ Add to Reporting



Example: Evaluating Research Performance

Use case

Homepage



Orientate the user to the page:

- Two perspectives: Exploring single entity vs Exploring multi-entity
- Help
- Account – Personalize, UNPW, etc.
- Point out other features on page – researcher; quick guide webinars; new releases; help
- Contact: email/chat

Explore mode

SciVal

Explore Compare Reporting My SciVal Scopus

Entity list Search entities + Define entity

New navigation

University of Cape Town

Universiteit van Kaapstad · iYunivesithi yaseKapa

Institution South Africa More details on this Institution

2018 to 2022 All subject areas ASJC

Data sources

Summary

Summary

+ Add Summary to Reporting Export

+ Add to Reporting

Summary metrics

21,976 ▲

Scholarly Output

66.1% All Open Access

View list of publications

9,079 ▲

Authors

1.91

Field-Weighted Citation Impact

Yearly breakdown

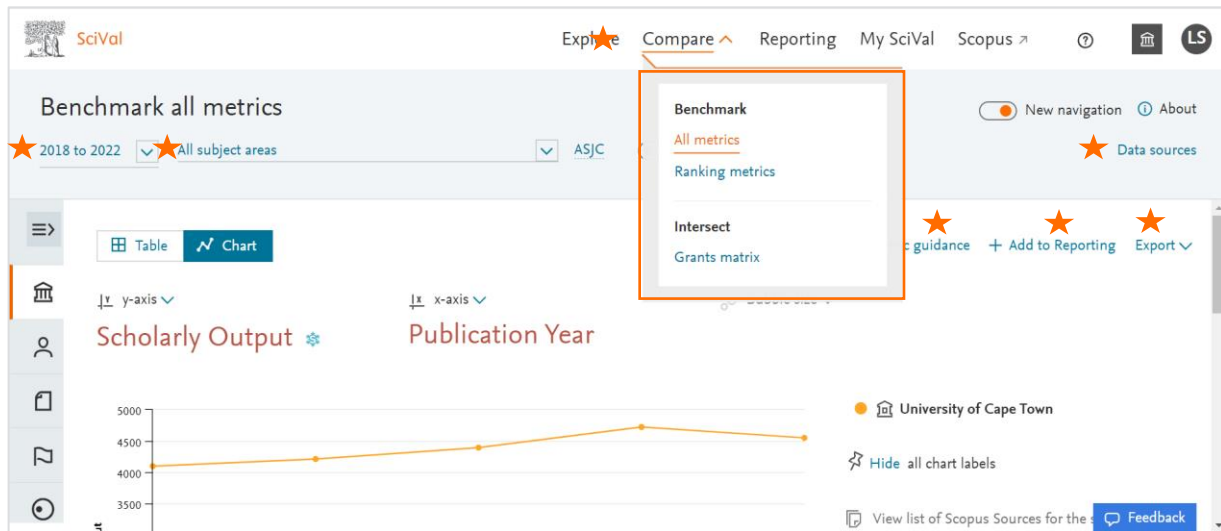
Feedback

Orientate the user to the page:

- ★ navigational elements which are constant across all Explore pages
- Where to select entities
- Metrics pages
These differ based on subscribed modules and selected entity

Show the categories

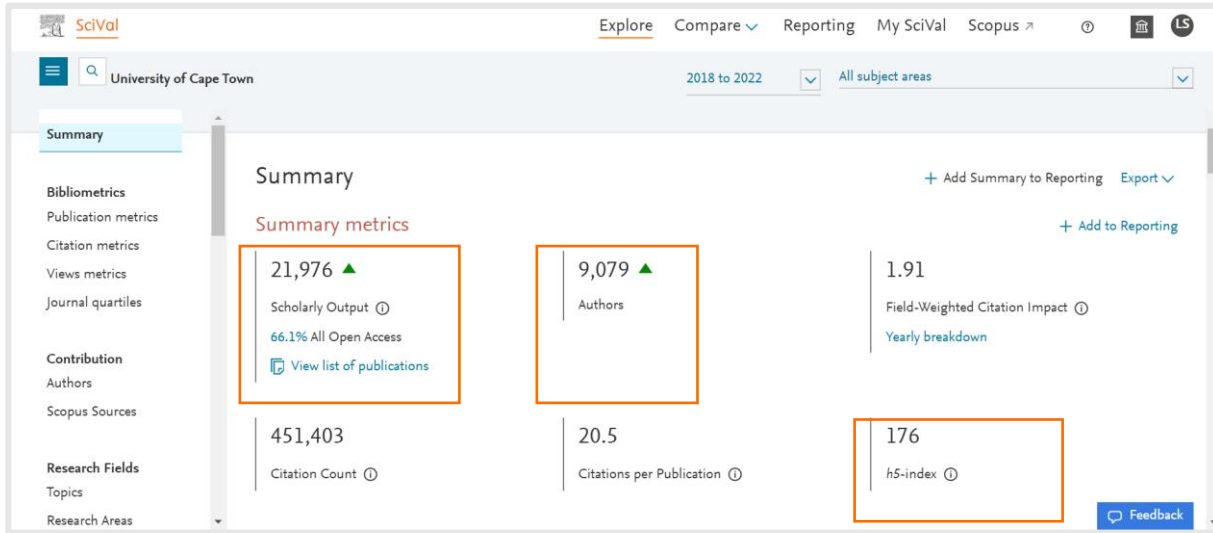
Compare mode



Orientate the user to the page

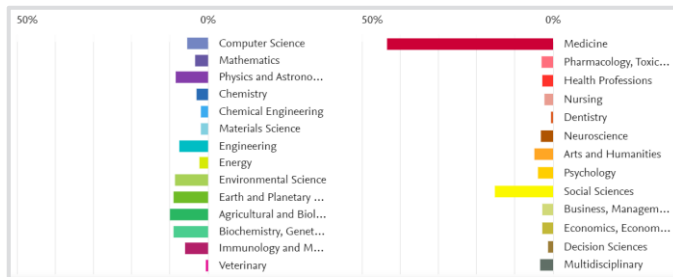
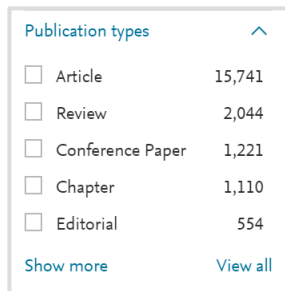
- ★ Highlight the navigational elements constant across all Compare pages
- Separate pages for “all metrics” and “ranking metrics”
- Grants matrix available for customers subscribing to Grants module
- Entities changed position
- Two visualisations (table/chart)
- Table useful for multiple metrics
- Chart allows up to three metrics at a time
- Chart – time series = one metric
- Select metrics using axis
- Refine metrics (publication types, percentage vs absolute, etc.)

Productivity & productivity growth

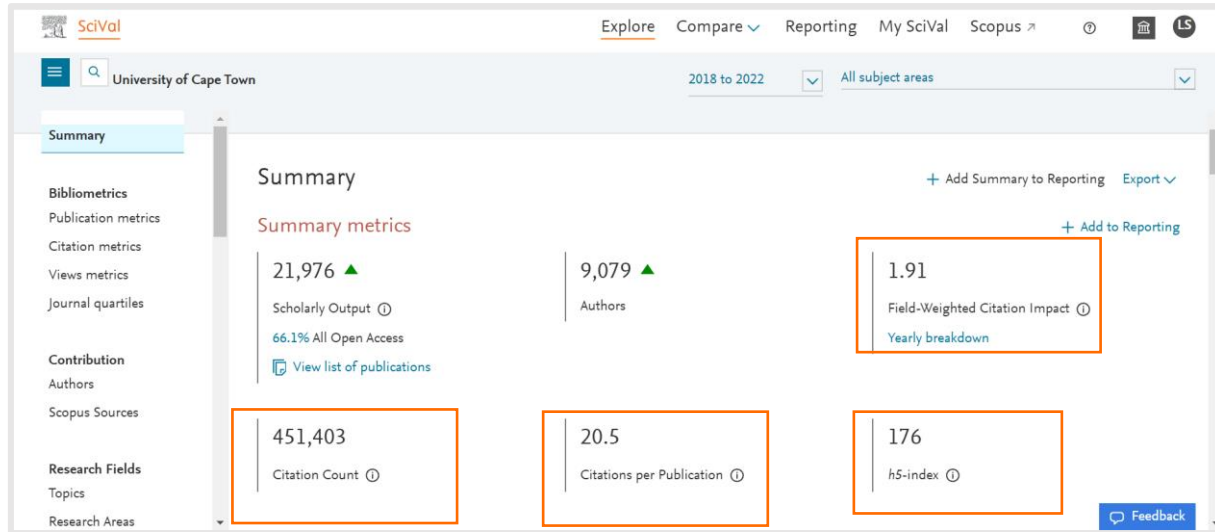


Research productivity is traditionally measured by number of research articles, books, chapters, and other scholarly works produced by researchers within a specified period

The metric reflects the generation of new knowledge, theories, discoveries, and innovations that contribute to the advancement of human understanding and address societal challenges.



[Academic] Impact

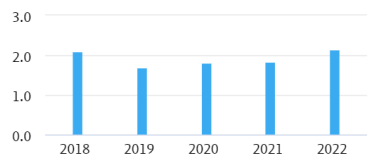


Research impact is traditionally measured through citations.

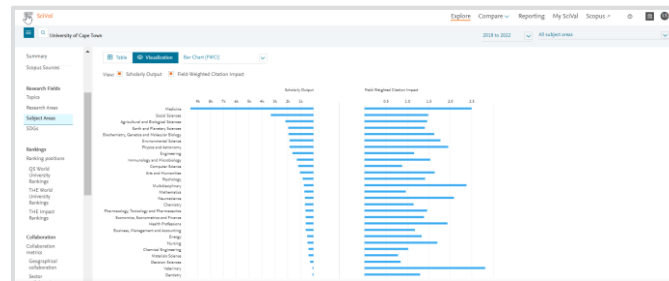
Research impact is an important facet of research endeavour because it enhances the reputation, visibility, and credibility of researchers, and research institutions because citations are considered a form of endorsement

Field-Weighted Citation Impact ⓘ

Yearly breakdown



1.91



Research excellence

Outputs in Top Citation Percentiles ⓘ

[+ Add to Reporting](#)

Publications in top 10% most cited worldwide

Show as field-weighted



University of Cape Town:

16.1%

South Africa:

12.0%

Publications in Top Journal Percentiles ⓘ

[+ Add to Reporting](#)

Publications in top 10% journals

by [CiteScore Percentile](#)



University of Cape Town:

35.0%

South Africa:

22.1%

Outputs in top percentiles signify significant impact and influence within the academic community

Publications in top journal percentiles reflect the proportion of the institution's publications in prestigious journals with high reputations

Publications which have made an extraordinary contribution to the impact of the institution's impact.

Take note of kilo papers – these papers may inflate citation counts artificially and fluctuate from year to year.

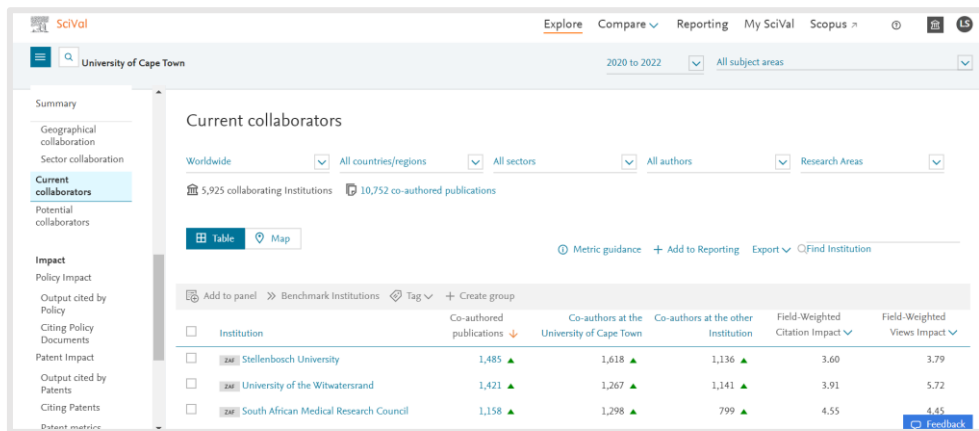
Publications with Highest FWCI

[+ Add to Reporting](#)

Top 5 publications at the University of Cape Town, by FWCI

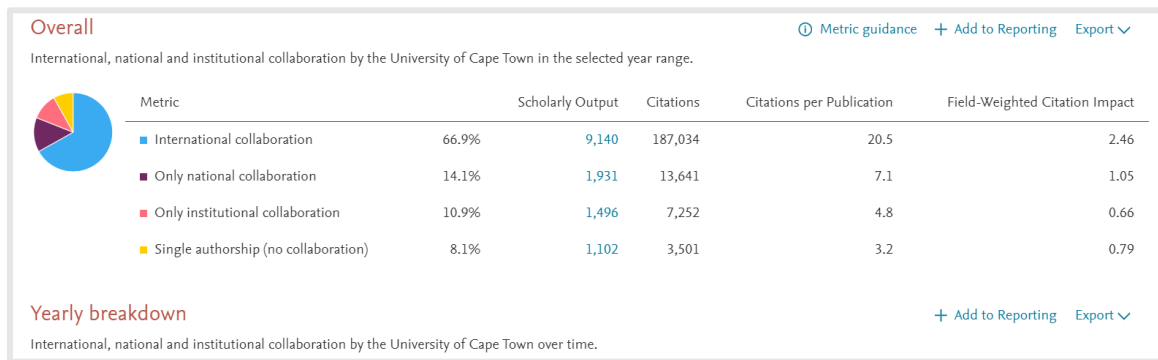
Publication	Citations	Field-Weighted Citation Impact
Global burden of 369 diseases and injuries in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. Abbatati, C., Abbas, K.M., Abbasi, M. and 1,595 more (2020) The Lancet, 396 (10258), pp. 1204-1222. View in Scopus	7,128	515.09

Engagement

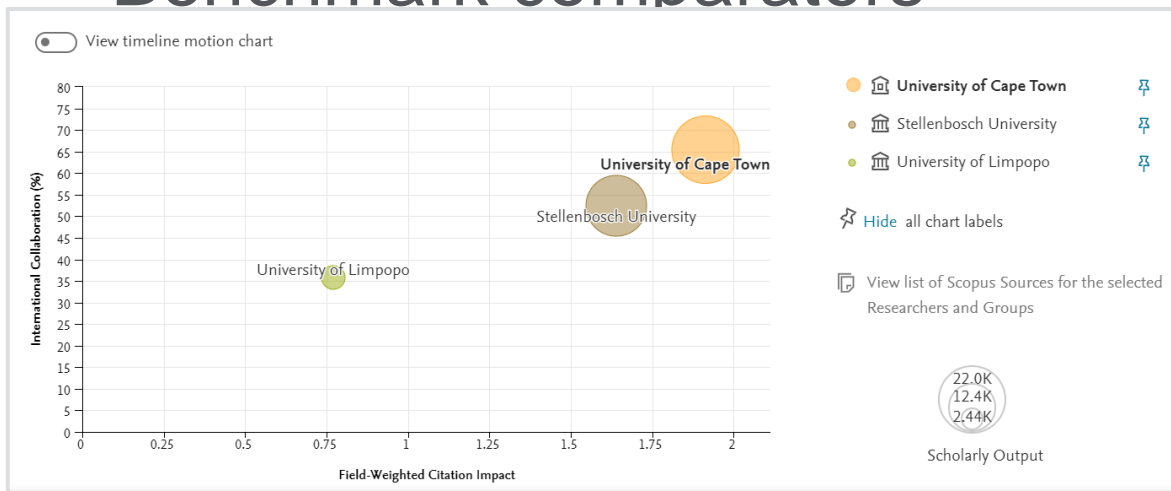


Engagement is an important indicator in research performance because it enhances funding potential, increases the potential for impact and higher the feasibility of addressing societal challenges.

Collaboration metrics demonstrate the extent, nature and quality of collaborative research efforts



Benchmark comparators



Benchmarking institutions is important to provide context for understanding the strengths and weaknesses of the university's research activities relative to others in similar fields or with similar resources.

It also provides valuable insights for strategic planning and resource allocation. By understanding where they stand relative to peers, universities can set realistic goals, prioritize areas for improvement, and allocate resources effectively to enhance research competitiveness.

Table | Chart

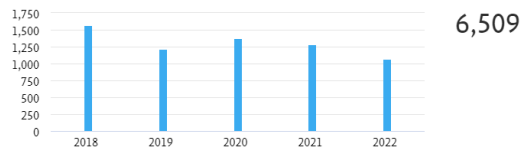
Metric guidance | Add to Reporting | Export

Benchmark multiple metrics | Reset to one metric over time | Heatmap

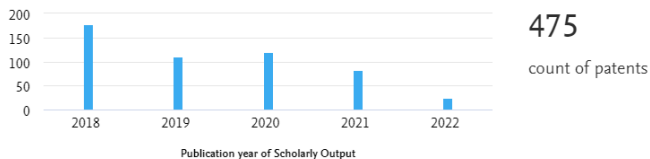
University	International Collaboration (%)	Field-Weighted Citation Impact	Scholarly Output
Stellenbosch University	52.5	1.64	17,793
University of Cape Town	65.4	1.91	21,976
University of Limpopo	35.9	0.77	2,520

[Societal] Impact

Mass Media [Ⓞ]



Patents Count [Ⓢ]



Policy Impact

Summary metrics

2,753

Scholarly Output cited by Policy [Ⓢ]



[View list of publications](#)

[Analyze in more detail](#)

6,625

Citing Policy Documents [Ⓢ]

[View list of policy documents](#)

637

Policy Bodies

[View list of Policy Bodies](#)

[+ Add to Reporting](#) [Export](#) [⌵]

Globally the focus has shifted towards how research institutions contribute to resolving “real world” problems.

Measuring societal impact ensures that research activities are relevant to societal needs and priorities.

The following proxy indicators are useful:

- Mass media metrics demonstrate societal interest in an institution’s research
- Patents count demonstrates the extent of research with potential for commercialisation (Applied)
- Policy impact shows the extent of research which has been adopted by policymakers.

Example: Exploring your area of expertise or strategic priority

Use case

Exploring your area of expertise or of strategic priority (1)

1a Define a new Research Area

1. Create definition 2. Refine definition 3. Save definition

Use search terms Use entities Use Topics

Define a new Research Area based on publications that match...

Enter query string:

Need more guidance?
Use the search query fields

1b Define a new Research Area

1. Create definition 2. Refine definition 3. Save definition

Use search terms Use entities Use Topics

Select one or more entities to represent your new Research Area

Scopus Sources

Copy selected to my new Research Area

- 10(5)
- 1997
- 25(2)
- 1895
- 1972
- 36
- 24

1c Define a Research Area based on Topics

no subject area filter selected Sort by Scholarly Output

Copy selected to my new Research Area Type to filter Remove selected from my new Research Area

- Solar cells; Fullerenes; Organic photovoltaics
T.0 - 15,395 publications - 95.910 percentile
- Perovskite; Solar cells; Methylammonium lead
T.28 - 14,189 publications - 100.000 percentile
- Industry; Petrochemicals; Saudi Aramco
T.6003 - 13,199 publications - 99.620 percentile
- Convolution; Neural networks; Convolutional network
T.6198 - 12,052 publications - 99.981 percentile
- RNA; Long Untranslated; Neoplasms; Proliferation migration
T.115 - 11,289 publications - 99.082 percentile
- Molybdenum compounds; Transition metals; Dichalcogenides TMDs
T.63 - 10,870 publications - 99.908 percentile
- Capacitance; Nanosheets; Asymmetric supercapacitors
T.4 - 10,104 publications - 99.994 percentile

Drag and drop at left to define your Research Area

Import/paste Topic IDs

Default data source
• Scopus up to 20 May 2025

Views data source
• Scopus up to 30 Apr 2025 to reporting

Funding data up to 17 May 2020

Patent data up to 10 Feb 2020

Media Source type
• LexisNexis Metabase up to 18 Feb 2020

More info about data sources >

Weekly metrics recalculation starts in 42 hours | Learn more >

2

You need to define this area.

SciVal offers the flexibility to analyze a variety of pre-defined Research Areas or to self-define bespoke research areas, representing any field of interest to you.

Exploring your area of expertise or of strategic priority (2)

1. Create definition 2. Refine definition 3. Save definition

Refine your definition by applying one or more filters

3

Subject areas	Name	Publications
<input type="checkbox"/>	Computer Science	25,272
<input type="checkbox"/>	Engineering	9,331
<input type="checkbox"/>	Mathematics	7,587
<input type="checkbox"/>	Physics and Astronomy	2,472
<input type="checkbox"/>	Social Sciences	2,121
<input type="checkbox"/>	Materials Science	2,008
<input type="checkbox"/>	Decision Sciences	1,802
<input type="checkbox"/>	Medicine	1,256
<input type="checkbox"/>	Arts and Humanities	1,246
<input type="checkbox"/>	Neuroscience	1,047
<input type="checkbox"/>	Earth and Planetary Sciences	825
<input type="checkbox"/>	Energy	470
<input type="checkbox"/>	Business, Management and Accounting	453
<input type="checkbox"/>	Biochemistry, Genetics and Molecular Biology	451
<input type="checkbox"/>	Agricultural and Biological Sciences	357
<input type="checkbox"/>	Chemical Engineering	340
<input type="checkbox"/>	Environmental Science	285

Definition of your Research Area:
 Convolution; Neural networks; Convolutional network (T.4338) OR Neural networks; As... (T.123)
[Show all](#)

Applied filters:
Limit to publications in the past 5 years X

Total matching publications (2014-present) 30,564

Limit to publications in the past 5 years

[Previous step](#) [Next step](#)

Refine the Research Area by limiting to publications in the past 5 years, or by limiting or excluding specific Subject areas, Scopus Sources, Institutions, Countries/Regions or Organization types.

Note: Research Areas with less than 10,000 publications are available to analyze immediately. However, Research Areas with greater than 10,000 publications can take around 6 hours to be computed and there is a 200,000 publication limit. You will be notified when a Research Area is available for use in SciVal.

Exploring your area of expertise or of strategic priority (3)

Define a new Research Area View quick guide

1. Create definition 2. Refine definition 3. Save definition

4 Save your Research Area as
Neural Networks - April 2020 28 of 300

Add tags (optional)

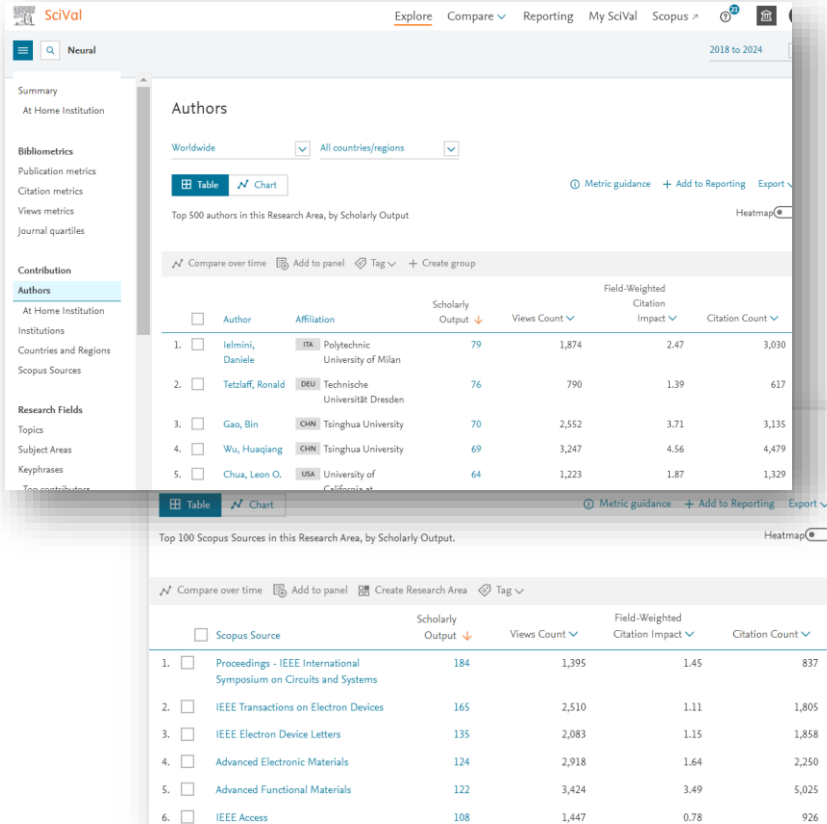
This Research Area will be updated approximately every week with new publications matching the definition.

[View Research Area Summary](#)

[Previous step](#) [Save and define another Research Area](#) [Save and finish](#)

Name your new Research Area, add relevant tags if desired, and save for analysis throughout SciVal. The Research Areas can then be analyzed across the platform

Exploring your area of expertise or of strategic priority (4)



Top contributors for the selected keyphrases

Top 50 keyphrases by relevance, based on 7,701 publications

Keyphrase relevance | Keyphrase color legend: declining A A growing (2018-2022)

Select all keyphrases | Reset selection

- Memristors
- Synapse
- Memristive Neural Network
- Computing
- RRAM
- Transistors

Top contributors to the Research Area for the selected keyphrases:

Institutions

Top 5 by Scholarly Output

CHN	Chinese Academy of Sciences	237
CHN	Huazhong University of Science and Technology	202
CHN	Peking University	163
CHN	Tsinghua University	143
CHN	University of Chinese Academy of Sciences	120

- Now you can answer the questions:
- who is doing research?
 - what is doing?
 - what to read? Where to publish?

Getting help and SciVal Homepage

Getting help

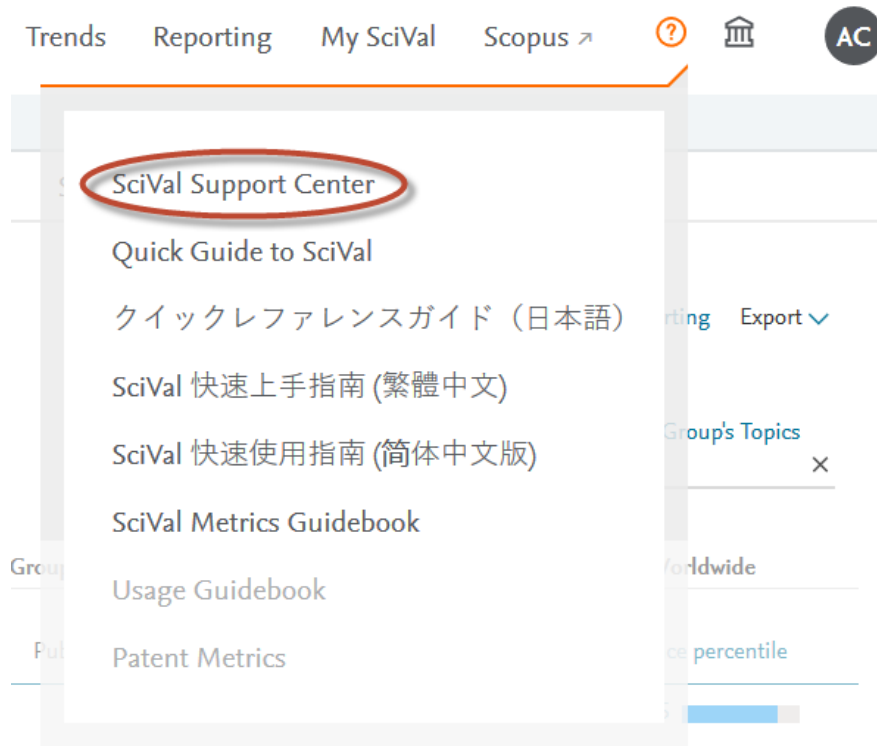
- The spine menu will provide a line to help documentation

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

- Contact your University's Library or us if you have any questions or problems with SciVal

Elsevier: Nicole Godfrey (ELS-SYD)

N.Godfrey@elsevier.com





Thank you

