

Research Intelligence

# Introduction to SciVal

**Witamy w społeczności użytkowników SciVal w Polsce!**

Created by Elsevier, February 2018.



# Welcome to the Polish SciVal user community!

*Starting January 2018, Elsevier's SciVal solution is available to all universities and research institutions in Poland.*

- **Who is SciVal for?** Researchers  
Research managers  
Research administrators  
Research evaluators
- **SciVal enables analysis of...** research performance of individuals, research groups, institutions, collaboration networks, areas and topics of research.
- **SciVal is incredibly flexible and easy to navigate.**  
Get started right away and perform insightful analysis within minutes!
- **SciVal is based Scopus. The most comprehensive data source in the world**  
Scopus is the most widely used and trusted data source for researchers and research evaluators worldwide. It has a distinct content advantage for Poland and Central&Eastern Europe.

# Welcome to the Polish SciVal user community!

*Become an active user of Polish SciVal Community*

- **Join our**

- **online** trainings
- **SciVal Forum** in your city
- **onsite** trainings
- and most importantly, **SciVal Research Evaluation Academy**.

*Currently, we're working on more Polish content and guides, more information will come your way soon.*

- **Provide a feedback and tell your stories on how you use SciVal!**

Just stay tuned!

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# Accessing SciVal at [www.scival.com](http://www.scival.com)

SciVal

Scopus SciVal

## 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**

Username:  \*

Password:  \*

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If not, [Register Now](#)

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 platform:



### 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.

Don't have access to SciVal? Complete the [consultation request form](#) to be contacted by your local account manager.

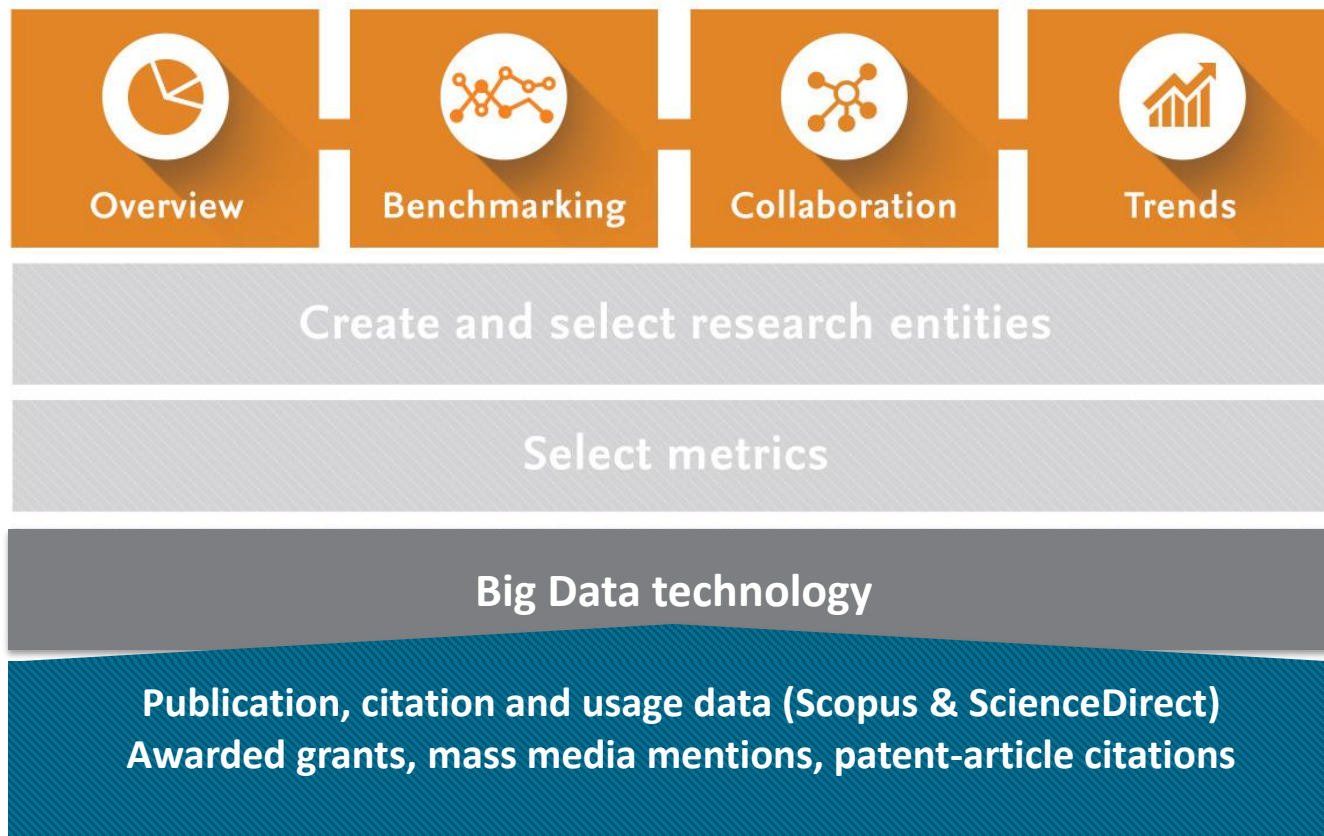
If you haven't previously registered for Scopus or ScienceDirect then please go to **Register Now**. Use VPN off-campus or ask Shelly for a Remote Access link



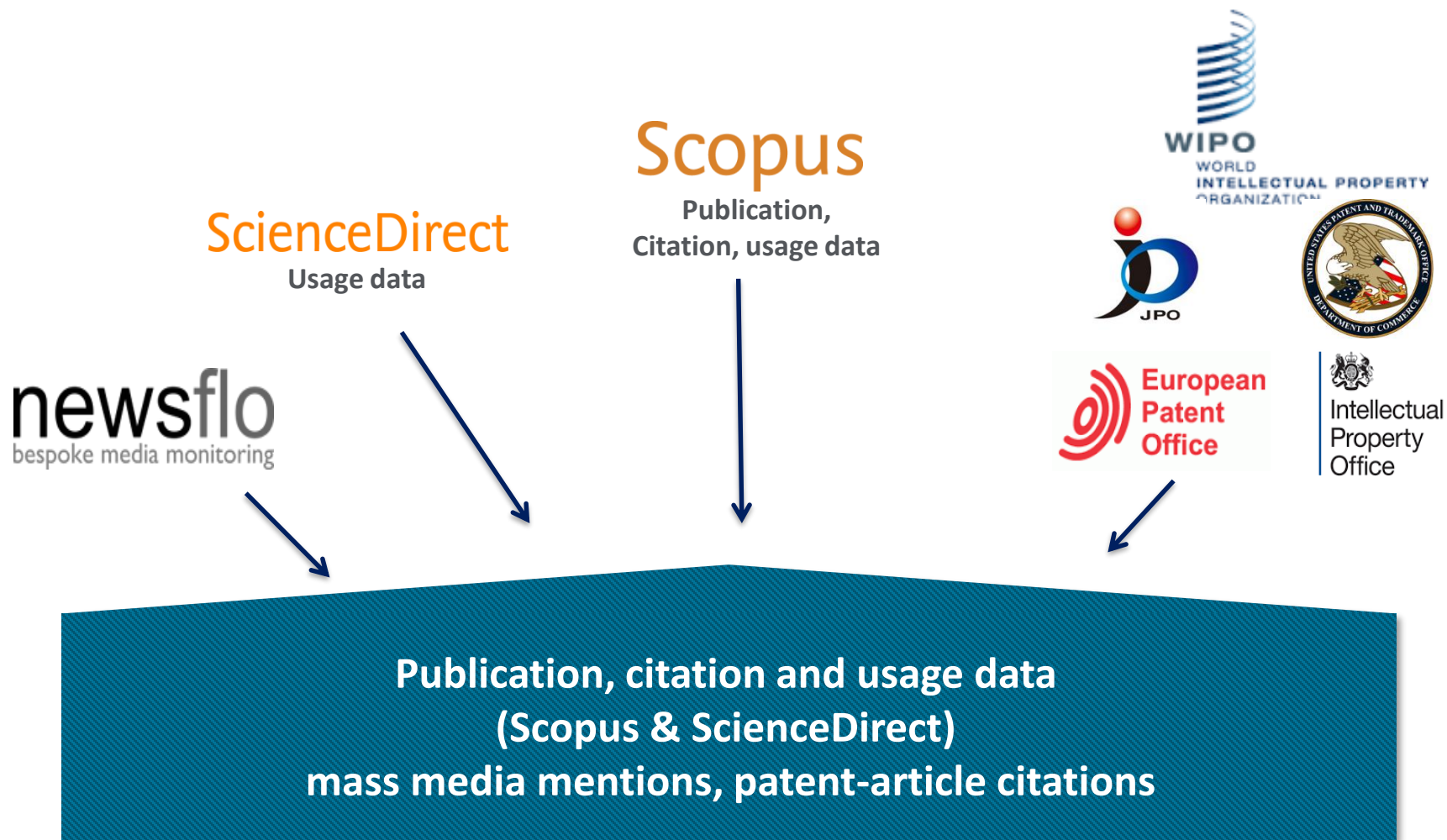
## The layers of SciVal

Data in SciVal is *updated every 2 weeks*.

Thus, you're always guaranteed with most up-to-date information.



# The foundation of SciVal



# What can SciVal do?



## 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?”



### University of Warsaw

411-420 (QS) - 501-600 (THE) - 301-400 (ARWU) | Poland | More details on this institution

2012 to 2017 | no subject area filter selected | ASJC

Summary | Topics | Awarded Grants | Collaboration | Published | Viewed | Cited | Economic Impact | Societal Impact | Authors

#### Overall research performance

Scholarly Output: 13,807  
Citation Count: 102,897

Authors: 5,730  
Field-Weighted Citation: 1.31  
Citations per Publication: 7.5  
h5-index: 97

Research Topics

Top 5 Topics, by Scholarly Output

Topic	Scholarly Output
jets; production; parton shower ... T.1026	149
planet; planets; free-floating planets ... T.8556	107
Data mining; Semantics; coal mines ... T.50495	90
gravitation; loops; spin foam ... T.782	88
Weight; Maximal operator; maximal operators ... T.10051	82

### University of Warsaw

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2012 to 2017 | no subject area filter selected | ASJC

Summary | Topics | Awarded Grants | Collaboration | Published | Viewed | Cited | Economic Impact | Societal Impact | Authors

#### Authors

Top 500 authors, by number of publications at the University of Warsaw over the period 2012 to 2017. Note that some authors may no longer be affiliated with the University of Warsaw.

Name	Publications	Most recent publication	Citations	h-index
1. Doroba, Krzysztof	544	2017	17,842	73
2. Kalinowski, Artur	543	2017	17,757	70
3. Kordecki, Marcin	543	2017	17,227	69
4. Kosiński, Jan	538	2017	17,047	69
5. Bulikowski, Karol	505	2017	15,652	69
6. Misra, Manoj	428	2017	9,085	46
7. Brons, Grzegorz	421	2017	16,927	71
8. Dominik, Wojciech	341	2017	15,964	70
9. Cwik, Mikolaj	331	2017	15,856	75
10. Olczowski, Michal	322	2017	4,589	32
11. Walczak, Marek	229	2017	2,089	20
12. Lubiński, Andrzej	216	2017	2,994	63
13. Paliłk, Tomasz	193	2017	7,131	64
			1,229	15
			2,213	55
			2,588	51
			2,379	57
			1,964	31

### University of Warsaw

411-420 (QS) - 501-600 (THE) - 301-400 (ARWU) | Poland | More details on this institution

2012 to 2017 | no subject area filter selected | ASJC

Summary | Topics | Awarded Grants | Collaboration | Published | Viewed | Cited | Economic Impact | Societal Impact | Authors

#### Top collaborating Institutions

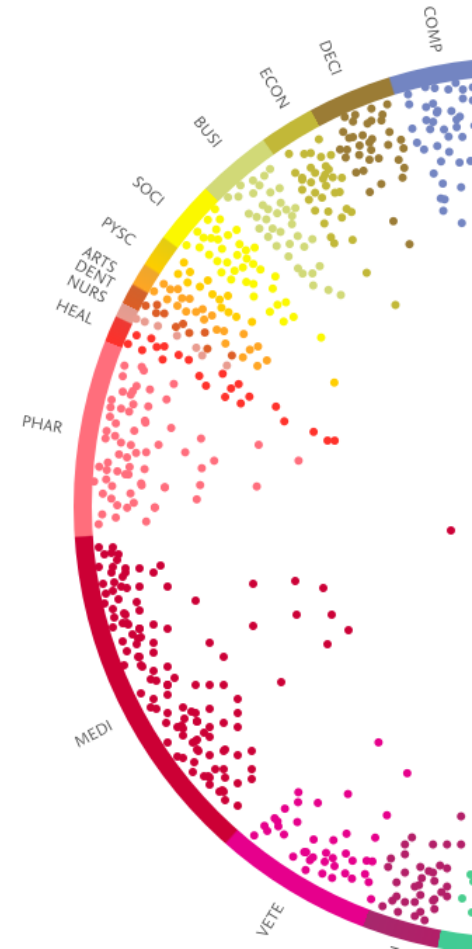
by number of publications co-authored with the University of Warsaw

Institution	Co-authored publications	Citations received for co-authored publications	Co-authors	Field-Weighted Citations
1. Polish Academy of Sciences	2,205	21,322	1,943	1.91
2. CNRS	1,268	39,003	1,598	4.47
3. INFN	1,109	35,475	2,530	4.70
4. Universite Paris Saclay	1,087	26,386	893	4.88
5. IN2P3 Institut National de Physique Nucleaire et de Physique des Particules	975	33,373	1,208	4.89
6. CEA	900	30,411	419	4.22
7. University of Padova	893	33,236	268	5.50
8. CSIC	873	30,481	638	4.42
9. University of Rome La Sapienza	858	33,192	395	5.70
10. California Institute of Technology	844	33,030	596	5.77

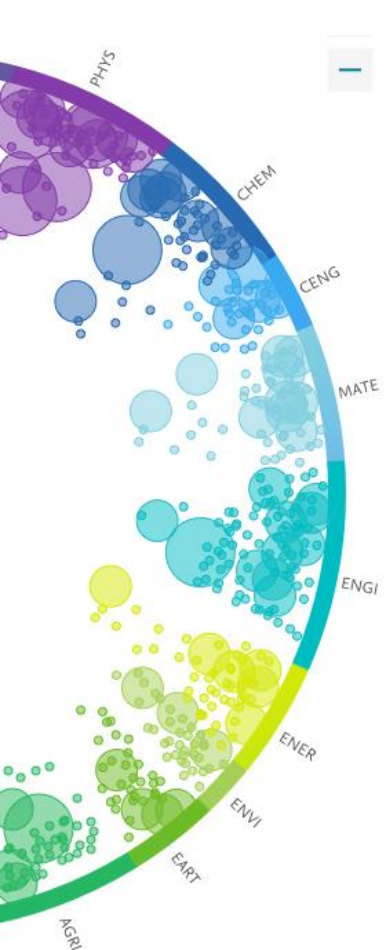
View the disciplinary focus of your institutions and your top researchers

# Topic Prominence in Science

- We have identified **~97.000 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 which are likely to be well funded.
- Going **way beyond** what the competition can do...



## Topic Prominence in Science – First of its kind



The first truly global detailed research portfolio analysis, which takes SciVal beyond evaluation and benchmarking. This has never been done before – we use all of Scopus to form topics.

- **Who's leading the way** – we can identify emergent topics with high momentum to understand who is currently leading the way.
- **What's related** – We can tell you how the topics are related to your research portfolio.
- **A better reflection of reality** – topics are an excellent reflection of reality since they are based on citation patterns and not journal categories and are therefore truly multidisciplinary.

# Topic Prominence: Table View

## Warsaw University of Technology

601-650 (QS  $\lambda$ ) · 601-800 (THE  $\lambda$ ) |  Poland | [More details on this Institution](#)

2012 to 2017  no subject area filter selected  ASJC

[Data sources](#)

Summary **Topics** Awarded Grants Collaboration Published Viewed Cited Economic Impact Societal Impact Authors

### Browse Topics

Export

Researchers at the Warsaw University of Technology have contributed to 4,231 topics between 2012 to 2017

Table  Wheel

[Search this Institution's Topics](#)

Topic	At this Institution			Worldwide
	Scholarly Output <input type="checkbox"/>	Publication Share	Field-Weighted Citation Impact	Prominence percentile
Ionic liquids; Phase equilibria; liquid-liquid equilibria ... T.3334	95	9.92% <input type="checkbox"/>	2.40	98.868 <input type="checkbox"/>
conferences; Photonics; optical fibers ... T.23448	85	19.77% <input type="checkbox"/>	1.20	61.724 <input type="checkbox"/>
collisions; jets; jet quenching ... T.649	79	6.02% <input type="checkbox"/>	2.37	97.731 <input type="checkbox"/>
Electromagnetic compatibility; Reliability; Measurements ... T.35447	79	24.76% <input type="checkbox"/>	2.77	85.162 <input type="checkbox"/>
collisions; ionic collisions; viscous hydrodynamics ... T.633	71	3.81% <input type="checkbox"/>	3.68	99.225 <input type="checkbox"/>
jets; production; parton shower ... T.1026	71	3.79% <input type="checkbox"/>	2.30	99.812 <input type="checkbox"/>
Holograms; Holographic displays; holographic projection ... T.3619	62	5.83% <input type="checkbox"/>	1.15	93.948 <input type="checkbox"/>

# Topic Prominence: Wheel of Science

## Warsaw University of Technology

601-650 (QS) · 601-800 (THE) · Poland | [More details on this Institution](#)

2012 to 2017 | no subject area filter selected | ASJC

[Data sources](#)

Summary Topics Awarded Grants Collaboration Published Viewed Cited Economic Impact Societal Impact Authors

### Browse Topics

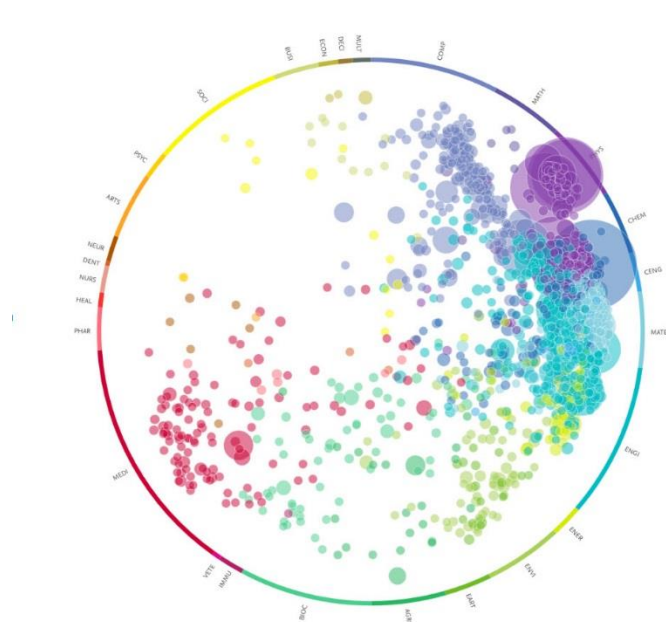
Export

Researchers at the Warsaw University of Technology have contributed to 4,231 topics between 2012 to 2017

Table Wheel

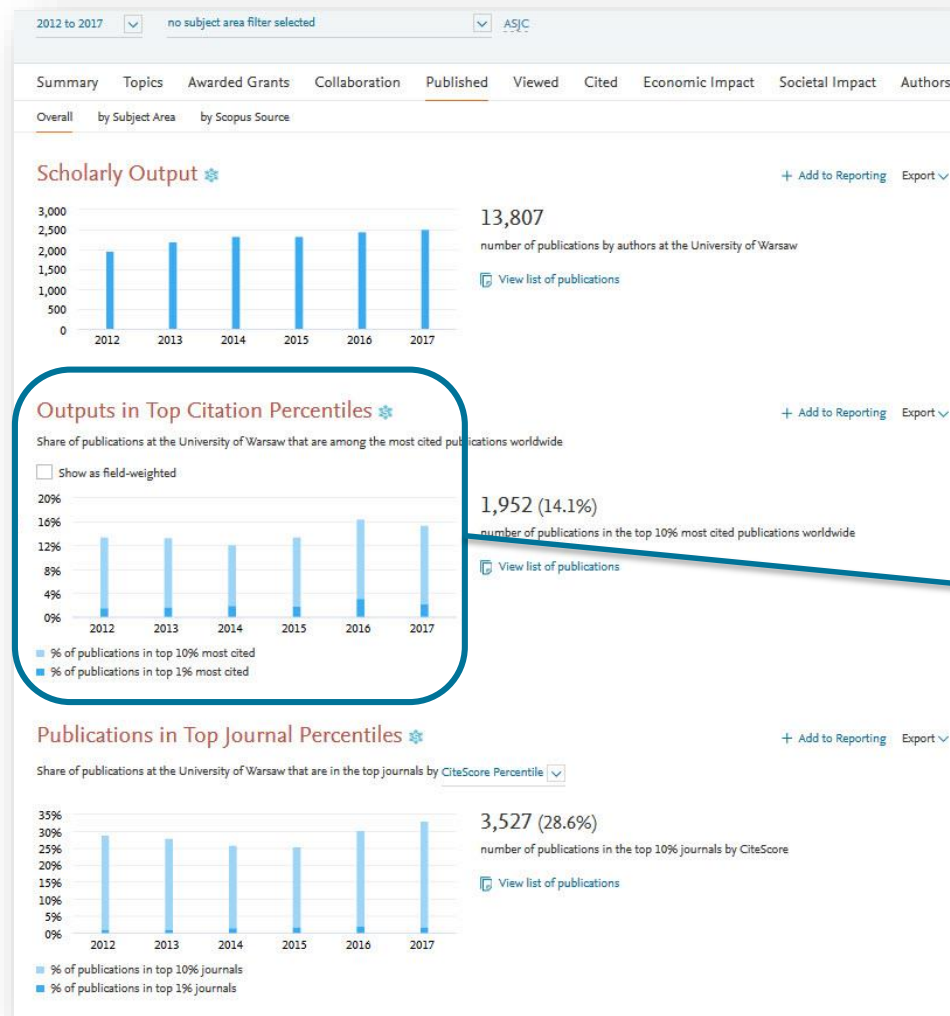
[Search this Institution's Topics](#)

Bubble size: Scholarly Output of Warsaw University of Technology | View: Top 10% of worldwide Topics by Prominence





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



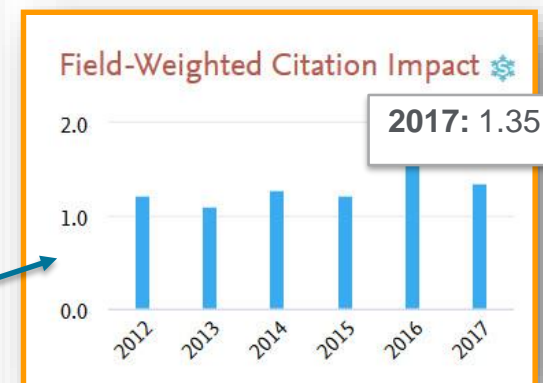
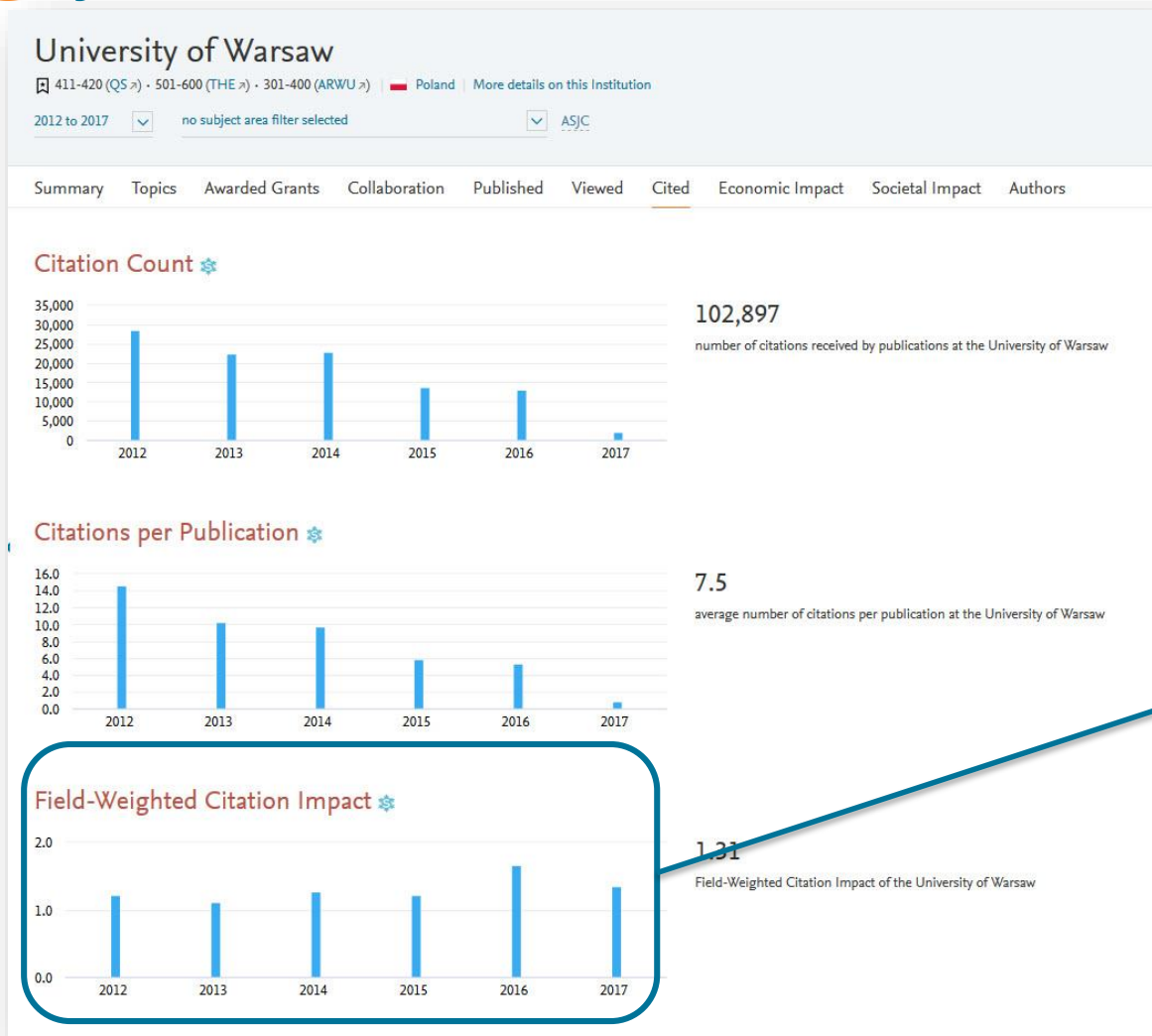
**2017**  
2.2% in top 1% most cited  
15.4% in top 10% most cited



See how many of your publications fall into the top 1% and 10% of the most cited articles in the world



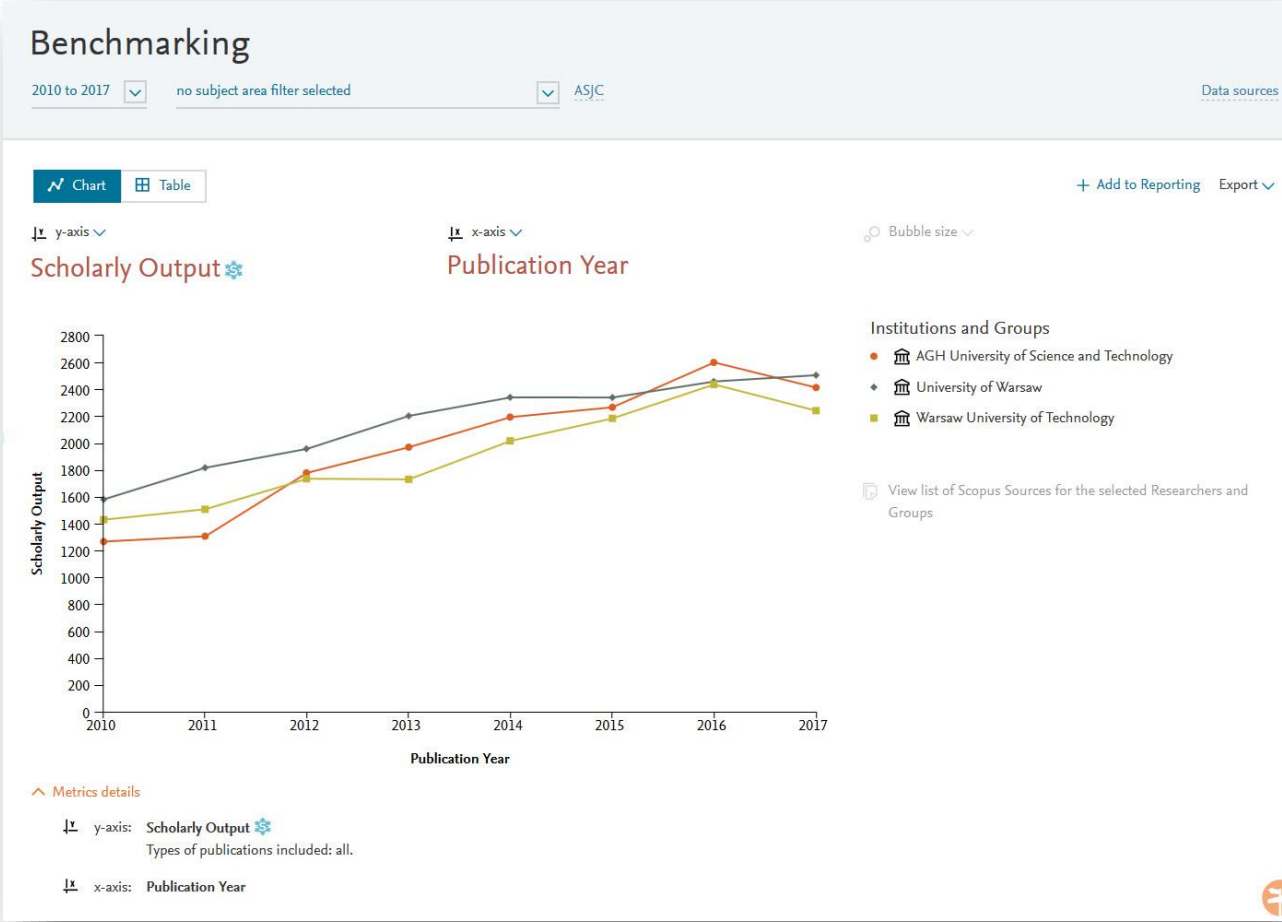
# Look through different metrics to identify ones that demonstrates your institution's research excellence



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

# International collaboration correlates strongly with publication impact (FWCI)

## Benchmarking

2010 to 2017

no subject area filter selected

ASJC

Data source

Chart

Table

+ Add to Reporting Expo

y-axis

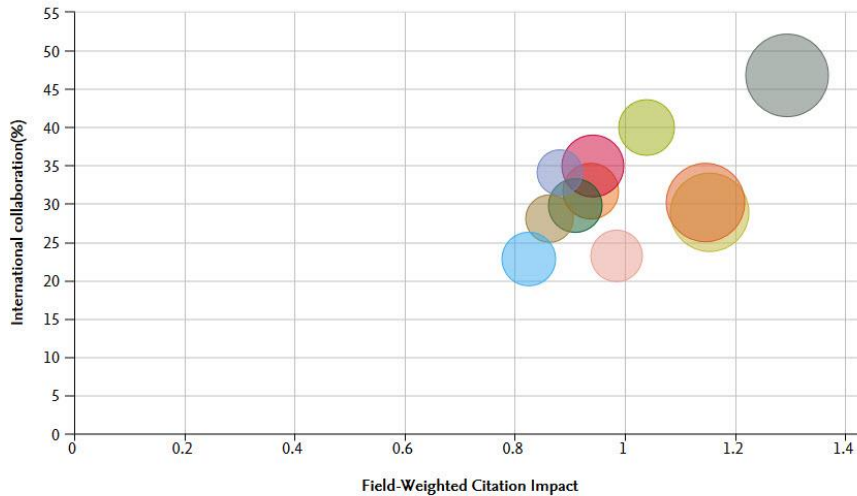
Collaboration

x-axis

Field-Weighted Citation Impact

Bubble size

Scholarly Output



### Institutions and Groups

- AGH University of Science and Technology
- Adam Mickiewicz University
- Gdansk University of Technology
- Lodz University of Technology
- Nicolaus Copernicus University
- University of Gdansk
- University of Lodz
- University of Silesia
- University of Warsaw
- University of Wrocław
- Warsaw University of Technology

View list of Scopus Sources for the selected Researchers and Groups



Scholarly Output

# SciVal Metrics Guidebook Guidebook

Comprehensive metrics guidebooks intended to be a straightforward, practical companion for you to find the right metrics to meet your objectives.

## • Understanding metrics

- Scopus as data source
- Usage data as a 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

**Example 4: Number of Citing Countries**

**Scenario:** The user would like to calculate the Number of Citing Countries of an entity that consists of 6 publications. They have not selected any viewing or calculation options. Say that this entity has received 6 citations from publications A, B, C, D, E and F.

	Entity with Publications					
	Publication 1	Publication 2	Publication 3	Publication 4	Publication 5	Publication 6
Cited by Publication A	Yes					
Cited by Publication B		Yes				
Cited by Publication C	Yes	Yes			Yes	
Cited by Publication D	Yes		Yes		Yes	
Cited by Publication E	Yes	Yes		Yes		Yes
Cited by Publication F		Yes			Yes	

**Scenario:** The citing publications A, B, C, D, E and F have the following affiliation information:

Citing Publication	Affiliation	Institution	Country
Publication A	10	10	CB
Publication B	05	11	CB
Publication C	05	10	CB
Publication D	10	11	CB
Publication E	05	10	CB
Publication F	05	11	CB

**Questions:** How do I calculate the number of Citing Countries?  
**Answer:** Count the number of distinct countries in the affiliations of the citing publications.  
**Number of Citing Countries = 4**

**4.9 Metric: Field-Weighted Citation Impact**

Field-Weighted Citation Impact in SciVal indicates how the number of citations received by an entity's publications compares with the average number of citations received by other similar publications in the data source; how do the citations received by this entity's publications compare with the world average?

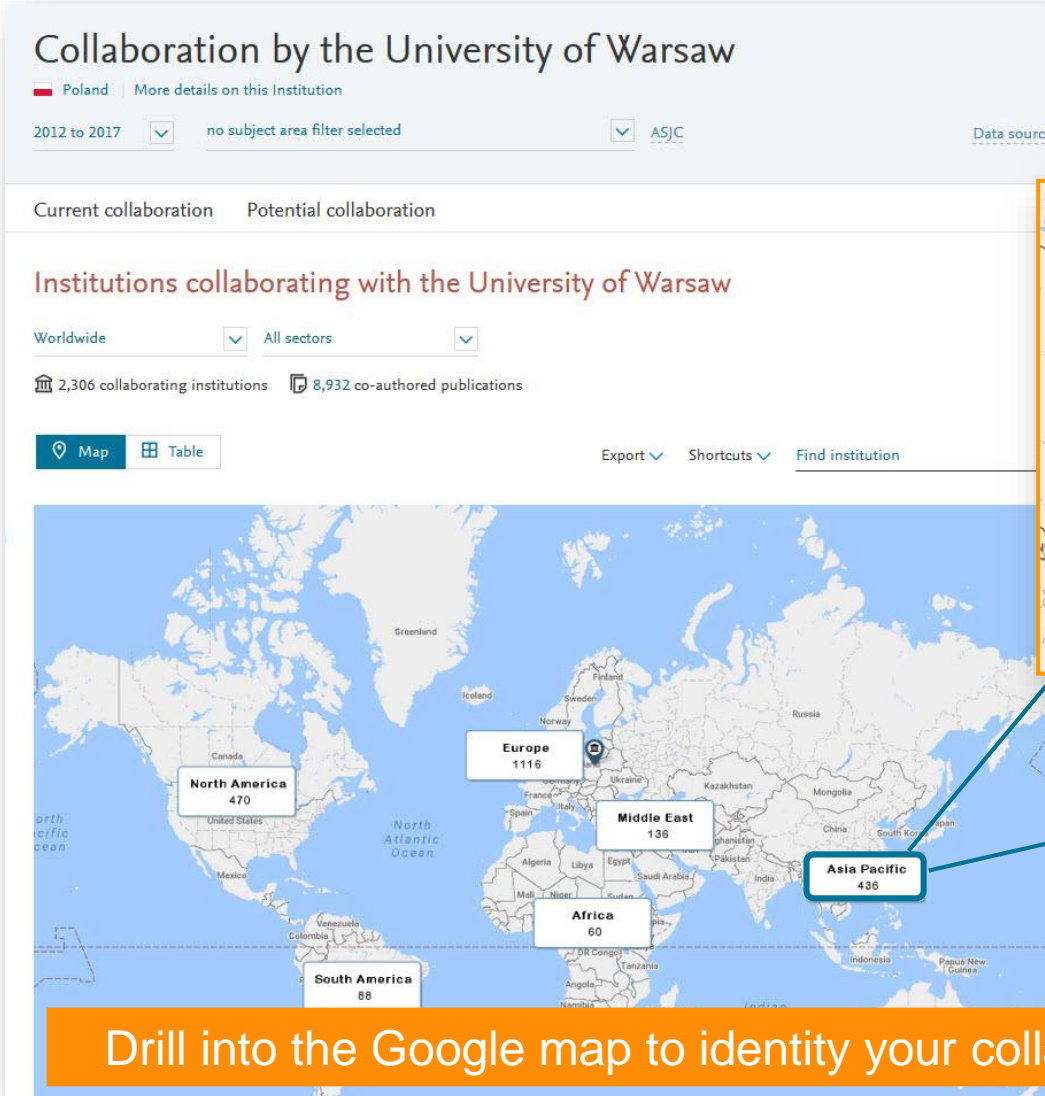
- A Field-Weighted Citation Impact of 1.00 indicates that the entity's publications have been cited exactly as would be expected based on the global average for similar publications; the Field-Weighted Citation Impact of "World", or the entire Scopus database, is 1.00.
- A Field-Weighted Citation Impact of more than 1.00 indicates that the entity's publications have been cited more than would be expected based on the global average for similar publications; for example, 2.0 means 100% more cited than world average.
- A Field-Weighted Citation Impact of less than 1.00 indicates that the entity's publications have been cited less than would be expected based on the global average for similar publications; for example, 0.50 means 50% less cited than world average.

Similar publications are those publications in the Scopus database that have the same publication year, publication type, and discipline, as represented by the Scopus journal classification system:

- Publications can be assigned to a classification system in 3 steps:
  - "Journal-domain" assignment assumes that every publication within a journal fits within the same discipline (as the journal's scope). Each publication automatically adopts the subject classification that is assigned to the journal. This method of assignment is suitable for journals that are focused in a core field, and do not tend to include publications that are also a subject to other fields.
  - "Publication-domain" assignment assumes that publications within a journal may have additional or different relevance to fields outside the core focus of the journal's scope. Publication-domain assignment offers the benefit of being able to assign individual publications from a journal separately to their relevant classifications. This is important for publications in multi-disciplinary journals.
- Field-Weighted Citation Impact uses "publication-domain" assignment
  - Publications are allocated to the classification Subcategory level, and can be allocated to more than 1 Sub-category. When we calculate the expected citations for similar publications, it is important that these multi-category publications do not count too much; for example, if a publication P belongs both to both psychiatry and neurobiology, it should not have double the influence of a publication that belongs to only one or the other Sub-category. This is accounted for in SciVal by distributing publication and citation counts equally across multiple journal categories; publication P would be counted as 0.5 publications for each of psychiatry and neurobiology, and its citations would be shared equally between these Sub-categories.



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



Drill into the Google map to identify your collaboration partners in China



# Identify existing and potential collaboration partners

## Collaboration by the University of Warsaw

Poland | [More details on this Institution](#)

2012 to 2017  no subject area filter selected  ASJC

[Data sources](#)

Current collaboration  Potential collaboration

### Institutions collaborating with the University of Warsaw

Asia Pacific  China  All sectors  [reset filter](#)

85 collaborating institutions 864 co-authored publications

Map  Table

Export  Shortcuts  Find institution

Institution	Co-authored publications <input type="checkbox"/>	Co-authors at the University of Warsaw	Co-authors at the other institution	Field-Weigh... <input type="checkbox"/>	Field-Weigh... <input type="checkbox"/>
Peking University	590 <input type="checkbox"/>	99 <input type="checkbox"/>	137 <input type="checkbox"/>	3.96	10.95
CAS - Institute of High Energy Physics	558 <input type="checkbox"/>	85 <input type="checkbox"/>	308 <input type="checkbox"/>	4.06	11.60
Beihang University	144 <input type="checkbox"/>	20 <input type="checkbox"/>	10	3.21	11.96
Tsinghua University	114 <input type="checkbox"/>	66 <input type="checkbox"/>	84 <input type="checkbox"/>	13.08	14.39
Chinese Academy of Sciences	75 <input type="checkbox"/>	97 <input type="checkbox"/>	279 <input type="checkbox"/>	5.11	6.41
CAS - National Astronomical Observatories	19 <input type="checkbox"/>	26 <input type="checkbox"/>	15 <input type="checkbox"/>	6.49	6.12
Institute of Modern Physics Chinese Academy of Sciences	17	24 <input type="checkbox"/>	56 <input type="checkbox"/>	1.49	2.09
University of Science and Technology of China	10 <input type="checkbox"/>	37 <input type="checkbox"/>	61 <input type="checkbox"/>	10.82	19.92
Shanghai Astronomical Observatory Chinese Academy of Sciences	9 <input type="checkbox"/>	25 <input type="checkbox"/>	5 <input type="checkbox"/>	36.06	14.30
Sun Yat-Sen University	9 <input type="checkbox"/>	20 <input type="checkbox"/>	16 <input type="checkbox"/>	11.80	12.47





# Assess the activity level and identify researchers

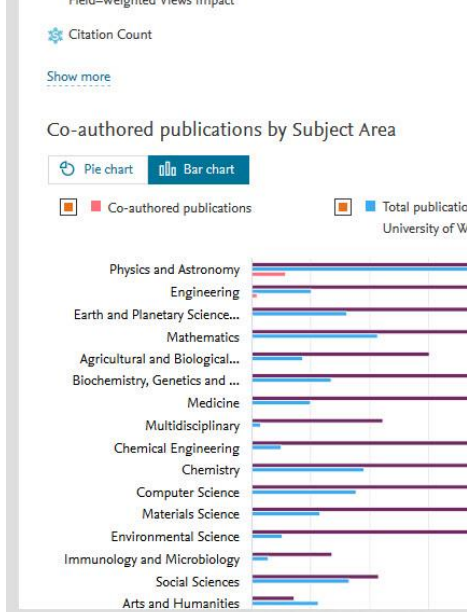
### Collaboration with Peking University

Year range: 2012 to 2017 Export v Shortcuts v

Overview Current co-authors Potential co-authors

	University of Warsaw	Co-authored	Peking University
	99 <span style="font-size: 0.8em;">v</span> co-authors with Peking University	590 <span style="font-size: 0.8em;">▲</span> publications	137 <span style="font-size: 0.8em;">▲</span> co-authors with the University of Warsaw
	1.31 <span style="font-size: 0.8em;">Field-Weighted Citation Impact</span>	3.96 <span style="font-size: 0.8em;">Field-Weighted Citation Impact</span>	1.41 <span style="font-size: 0.8em;">Field-Weighted Citation Impact</span>
Authors	5,730 <span style="font-size: 0.8em;">▲</span>	-	50,404 <span style="font-size: 0.8em;">▲</span>
<span style="font-size: 0.8em;">Scholarly Output</span>	13,807 <span style="font-size: 0.8em;">▲</span>	-	68,808 <span style="font-size: 0.8em;">▲</span>
Views count (from Scopus)	279,613	60,167	1,012,166
Field-Weighted Views Impact			
<span style="font-size: 0.8em;">Citation Count</span>			

[Show more](#)



### Collaboration with Peking University

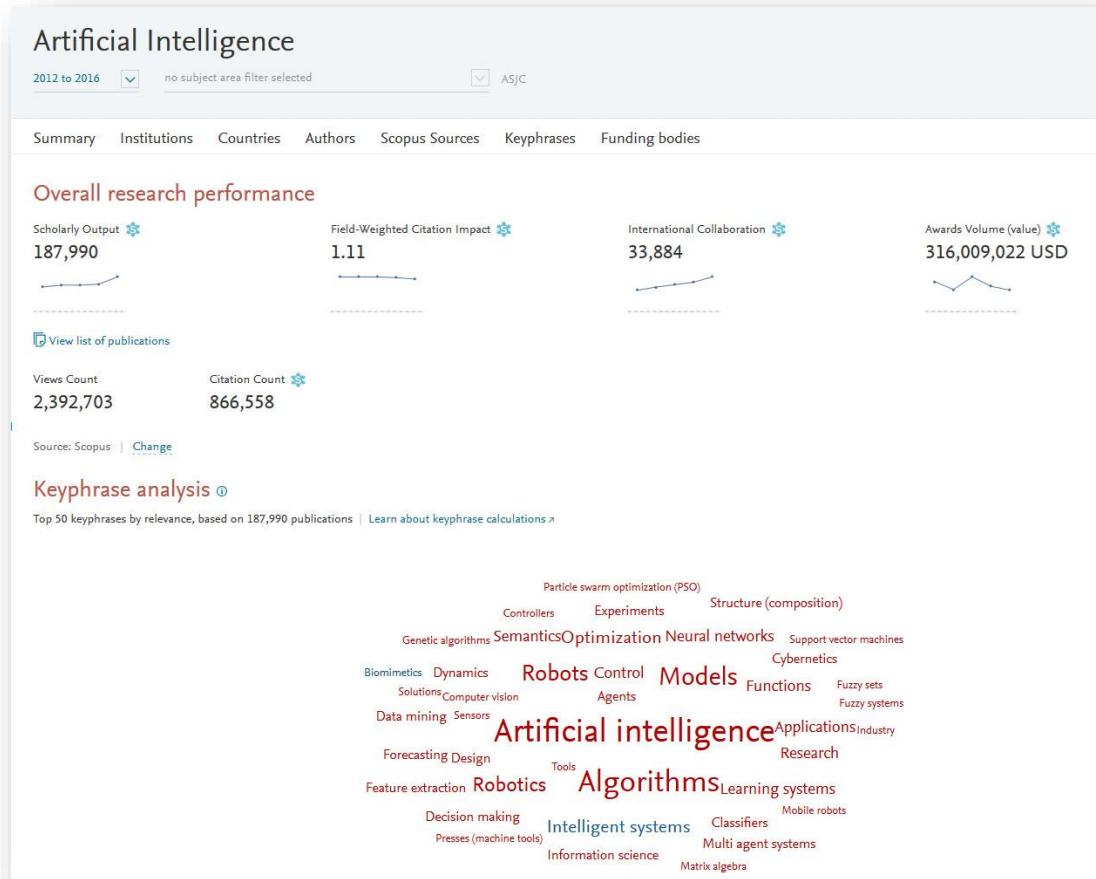
Year range: 2012 to 2017 Export v Shortcuts v

Overview Current co-authors Potential co-authors

University of Warsaw			Peking University		
Co-authors with Peking University			Co-authors with the University of Warsaw		
Author	Co-authored publications	Citations	Author	Co-authored publications	Citations
> Doroba, Krzysztof	536	17,715	> Ban, Yong	548	18,119
> Kalnowski, Artur	536	17,715	> Qian, Sijin	543	18,079
> Konecki, Marcin	536	17,715	> Liu, Shangli	533	17,812
> Królikowski, Jan	535	17,641	> Wang, Dayong	477	14,665
> Buńkowski, Karol	498	15,644	> Asawatangkuldee, Chayanit	421	17,058
> Misiura, Maciej	420	9,031	> Zou, W.	359	16,829
> Brona, Grzegorz	416	16,926	> Li, Q. Z.	357	5,880
> Olszewski, Michał	315	4,581	> Mao, Yaxian	273	11,030
> Cwiok, Mikolaj	308	15,612	> Guo, Yuyi	260	14,333
> Dominik, Wojciech	308	15,612	> Xu, Z.	258	3,111
> Walczak, Marek	227	2,027	> Mao, Yajun	255	6,875
> Byszuk, A.	183	1,229	> Li, Wenbo	235	13,781
> Wolszczak, Weronika Wiktoria	141	4,934	> Zhang, L. Y.	223	7,797
> Pyskir, Andrzej	27	20	> Zhang, F.	174	1,752



“How can I see who’s excelling in a specific subject compared to my researchers, for potential collaboration opportunities?”

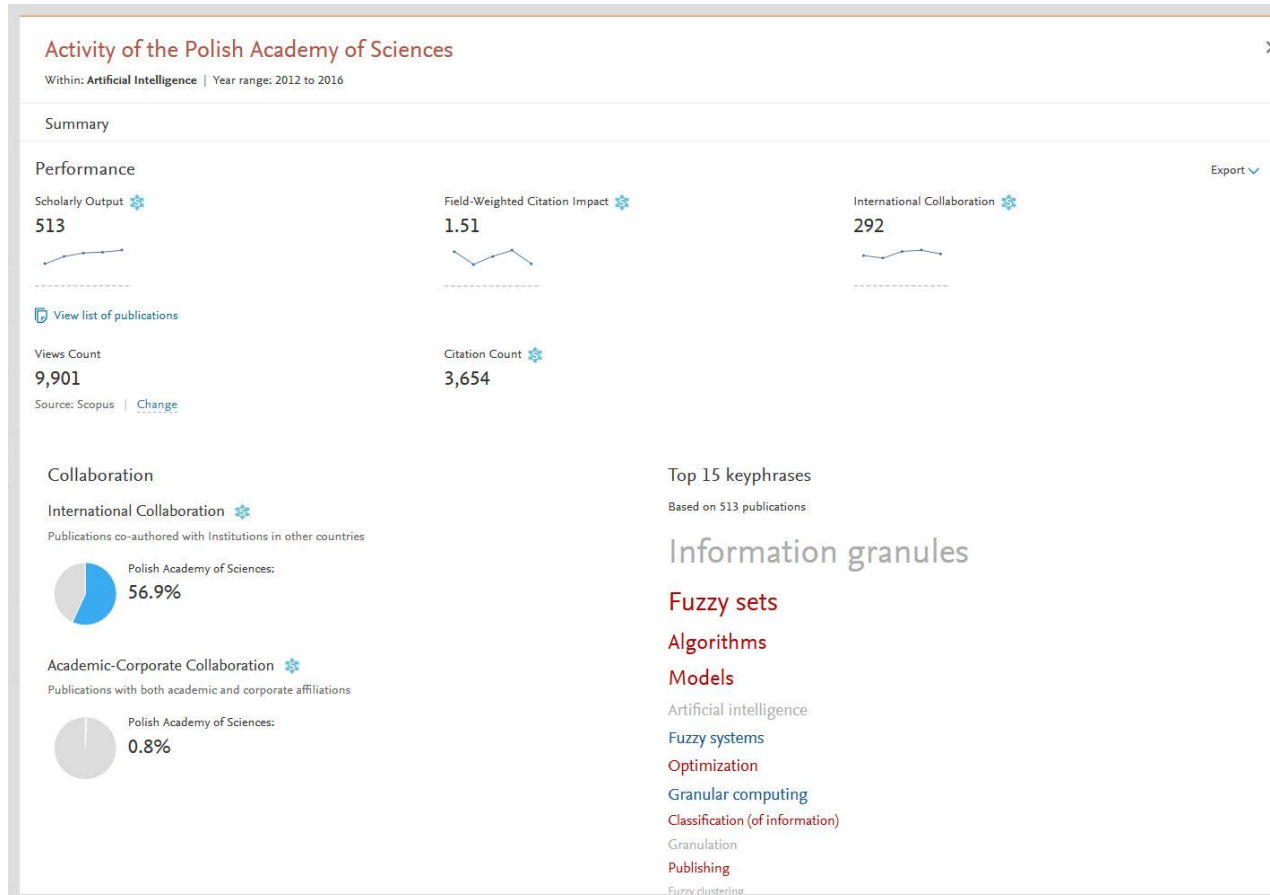


Choose or create your own Research Area in SciVal





# Analyze all or a specific part of the Research Area



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:

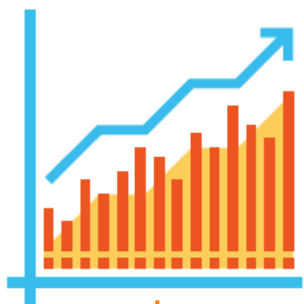
- View the ready-made, at-a-glance snapshot of your research performance or of any team or institution around the world
- Benchmark your team's or institution's performance against any set of peers.
- Model test scenarios by creating virtual teams and newly emerging research areas.
- Evaluate existing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

[www.elsevier.com/research-intelligence](http://www.elsevier.com/research-intelligence)



# Background to Research Metrics and Data

## Research Metrics Can Be Used to...



Analyze the strengths of research at the institution



Determine where research is a good potential investment



Demonstrate Return on Investment of research money



Identify rising stars amongst the early career researchers



Tell a better narrative about everything that is happening with research

# How to choose a metric

**Always use both qualitative and quantitative input into your decisions**

**Always use more than one research metric as the quantitative input**

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?
Scholarly Output						
Journal Count						
Journal Category Count						
Citation Count						
Cited Publications						
Citations per Publication						
Number of Citing Countries						
Field-Weighted Citation Impact						
Collaboration						
Collaboration Impact						
Academic-Corporate Collaboration						
Academic-Corporate Collaboration Impact						
Outputs in Top Percentiles						
Publications in Top Journal Percentiles						
<i>h</i> -indices						

# SciVal 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.

### Example 4: Number of Citing Countries

**Scenario:** The user would like to calculate the Number of Citing Countries of an entity that consists of 6 publications. They have not selected any viewing or calculation options. Say that this entity has received 6 citations from publications A, B, C, D, E and F.

	Entity with 6 Publications					
	Publication 1	Publication 2	Publication 3	Publication 4	Publication 5	Publication 6
Cited by Publication A	Yes				Yes	
Cited by Publication B		Yes				
Cited by Publication C	Yes	Yes			Yes	Yes
Cited by Publication D	Yes	Yes		Yes		Yes
Cited by Publication E	Yes	Yes		Yes		Yes
Cited by Publication F		Yes			Yes	

**Scenario:** The citing publications A, B, C, D, E and F have the following affiliation information:

Citing Publication	Affiliation	Institutions	Country
Publication A	A2	14	CB
	A1	11	CB
Publication B	A2	14	CB
	A2	12	CB
Publication C	A1	11	CB
	A2	12	CB
Publication D	A1	11	CB
	A2	11	CB
Publication E	A1	11	CB
	A2	11	CB
Publication F	A1	11	CB
	A2	11	CB

**Question:** How do I calculate the number of Citing Countries?

**Answer:** Count the number of distinct countries in the affiliations of the citing publications.

**Number of Citing Countries = 4**

### 4.9 Metric: Field-Weighted Citation Impact

Field-Weighted Citation Impact in SciVal indicates how the number of citations received by an entity's publications compares with the average number of citations received by all other similar publications in the data universe; how do the citations received by this entity's publications compare with the world average?

- A Field-Weighted Citation Impact of 1.00 indicates that the entity's publications have been cited exactly as would be expected based on the global average for similar publications; the Field-Weighted Citation Impact of "World", or the entire Scopus database, is 1.00.
- A Field-Weighted Citation Impact of more than 1.00 indicates that the entity's publications have been cited more than would be expected based on the global average for similar publications; for example, 2.11 means 111% more cited than world average.
- A Field-Weighted Citation Impact of less than 1.00 indicates that the entity's publications have been cited less than would be expected based on the global average for similar publications; for example, 0.87 means 13% less cited than world average.

Similar publications are those publications in the Scopus database that have the same publication year, publication type, and discipline, as represented by the Scopus journal classification system:




- Publications can be assigned to a classification system in 3 ways:
  - "Journal-driven" assignment assumes that every publication within a journal fits within the same discipline(s) as the journal's scope. Each publication automatically adopts the subject classifications that are assigned to the journal. This method of assignment is suitable for journals that are focused in a core field, and do not tend to include publications that are also relevant to other fields.
  - "Publication-driven" assignment assumes that publications within a journal may have additional or different relevance to fields outside the core focus of the journal's scope. Publication-driven assignment offers the benefit of being able to assign individual publications from a journal separately to their relevant classifications. This is important for publications in multi-disciplinary journals.
- Field-Weighted Citation Impact uses "publication-driven" assignment
- Publications are allocated to the classification Sub-category level, and can be allocated to more than 1 Sub-category. When we calculate the expected citations for similar publications, it is important that these multi-category publications do not exert too much weight; for example, if a publication F belongs to both in both parasitology and microbiology, it should not have double the influence of a publication that belongs to only one or the other Sub-category. This is accounted for in SciVal by distributing publications and citation counts equally across multiple journal categories; publication F would be counted as 0.5 publications for each of parasitology and microbiology, and its citations would be shared equally between these Sub-categories.

- **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





# A basket of >30 sets of metrics at your disposal

Slice and dice your data from multiple angles to identify your core strengths and weaknesses





## 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

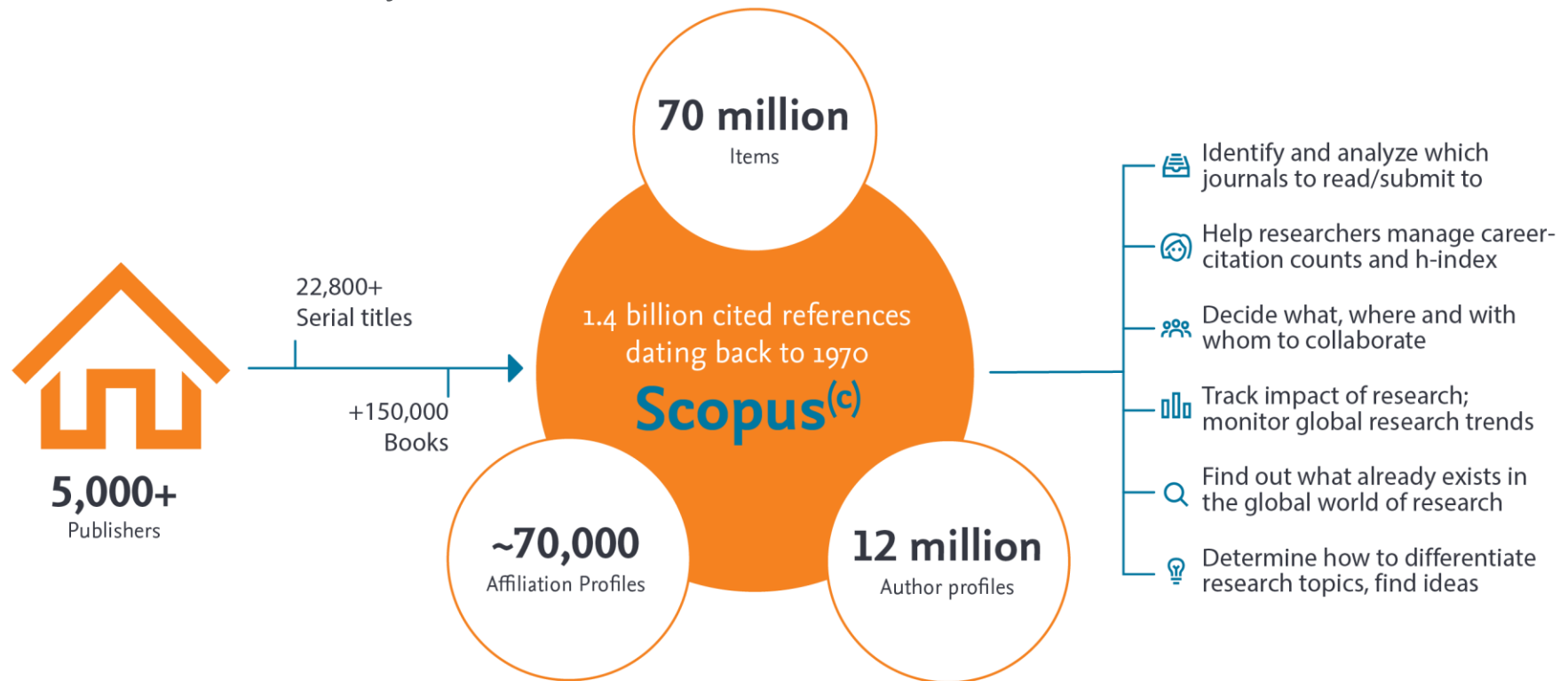
## Usage metrics (Trends module)

- Views Count
- Views per Publication
- Field-Weighted Views Impact

## Societal Impact Metrics

-  Mass Media
- Media Exposure

**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.

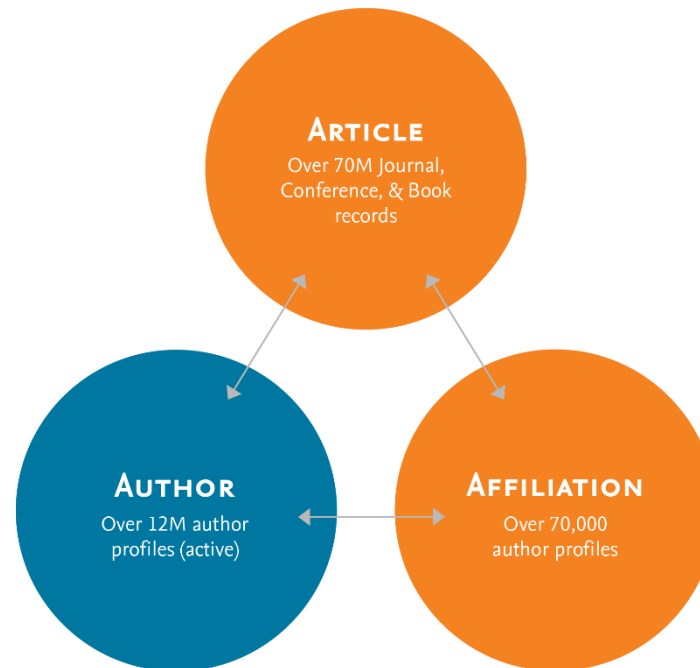


## The Scopus data model

The **Scopus data model** is designed around the notion that **articles** are written by **authors** that are **affiliated with institutions**. Visually and rather simplistically, this relational model is represented below.

---

### Scopus Data Model Simplified



---

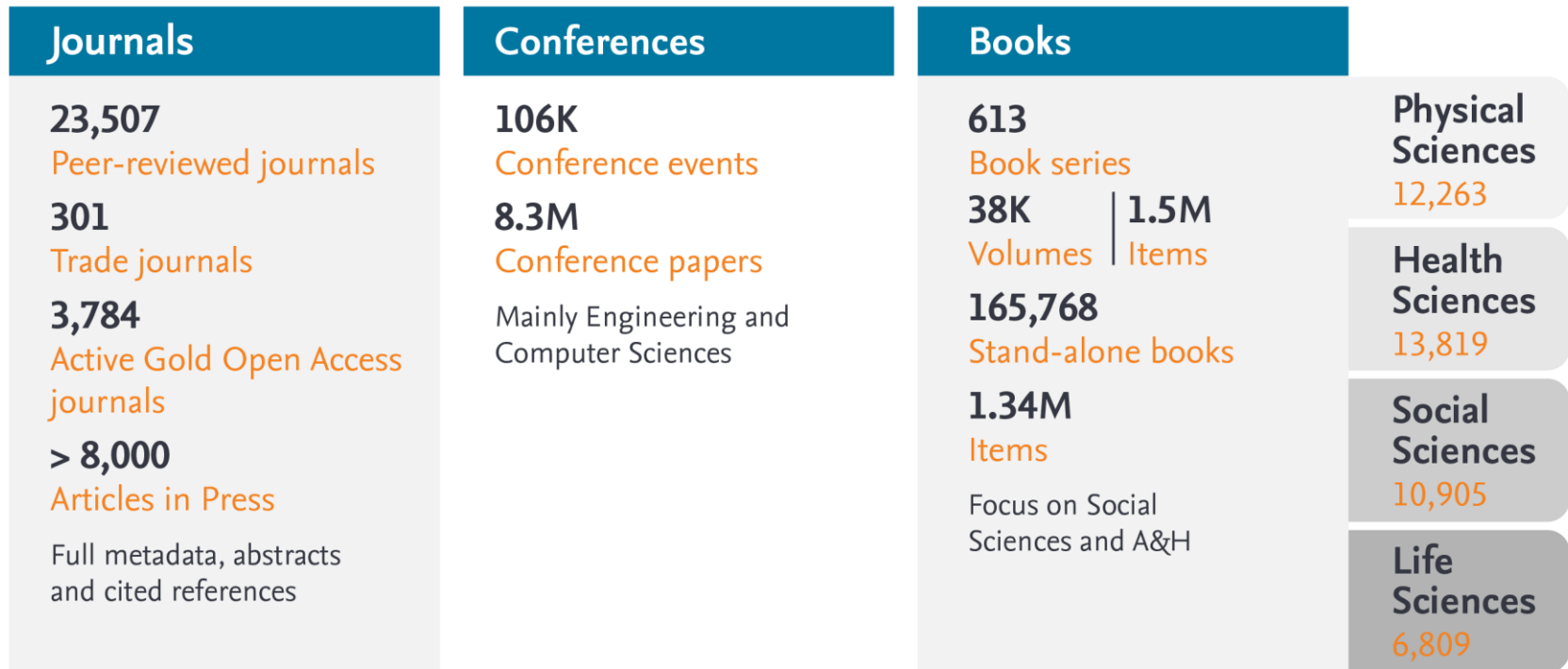
**What is the value of this structured data?** This relational data model means that Scopus can tell you **who is doing what** in global literature and **where they are doing it** with **higher accuracy** than anyone else

# Global Representation means global discovery

*Across all subjects and content types*

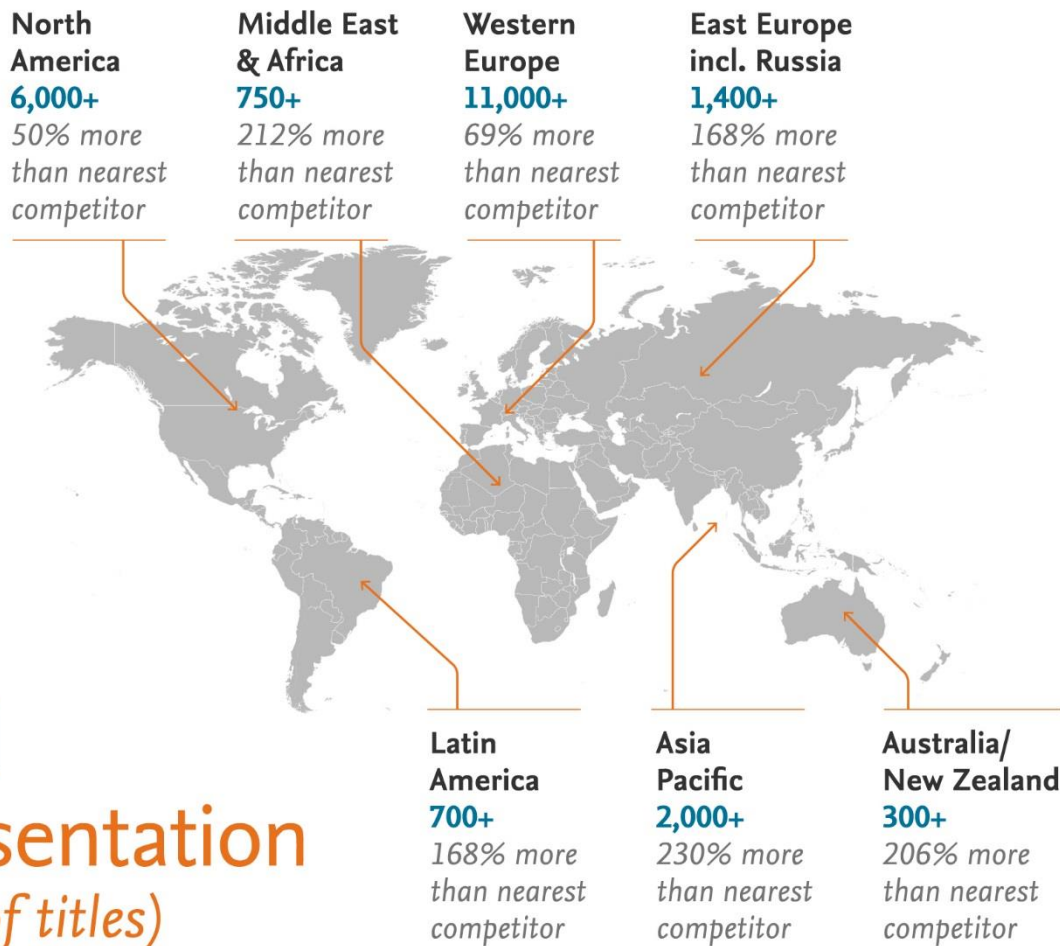
## Scopus includes content from more than 5,000 publishers and 105 different countries

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



# Global Representation means global discovery

*Across all subjects and content types*



**Global Representation**  
*(number of titles)*

## Scopus Data: The Gold Standard

### The Gold Standard

Scopus is selected for its excellence by

4,500

universities

150

leading research organizations

who continue to choose Scopus for research assessment and evaluation purposes over any other competitor.



# Scopus is the Gold Standard:

More than 150 leading research organizations rely on Scopus data

The image features a world map with several regions highlighted in blue. Lines connect these regions to callout boxes containing logos and names of research organizations that use Scopus data. The organizations are distributed across North America, Europe, Africa, Asia, and Australia.

- North America:**
  - Michigan Corporate Relations Network
  - MD Anderson
- Europe:**
  - OECD (Better Policies for Better Lives)
  - National Science Foundation
  - ReachNC
  - UK REF (Research Excellence Framework)
  - UK BIS
  - Queen's University Belfast
  - STINT
  - RFBR (Russian Foundation for Basic Research)
  - Ural Federal University (named after the first President of Russia B.N. Yeltsin)
- Africa:**
  - Nigerian Government
- Asia:**
  - Gazi University
  - ISTIC
  - IISER
  - Peking University
  - Keio University
  - TCI-Thailand
  - NRF-Korea
  - Nanyang Technologica University
- Australia:**
  - European Commission & ERC
  - FCT Portugal
  - Italy ANVUR
  - Kiel University
  - Danish BFI
  - Germany IFQ
- South America:**
  - CAPES Brazil

Rankings:



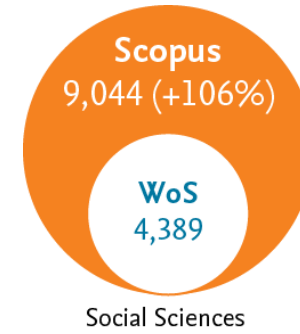
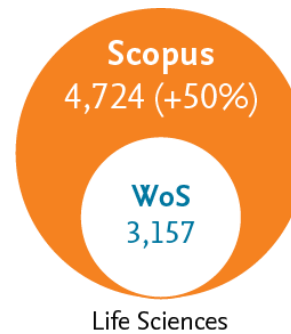
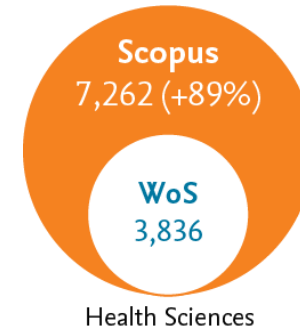
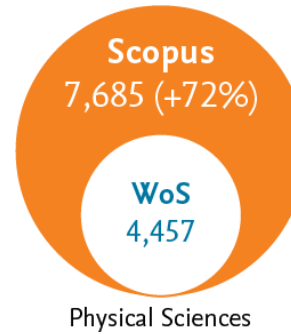
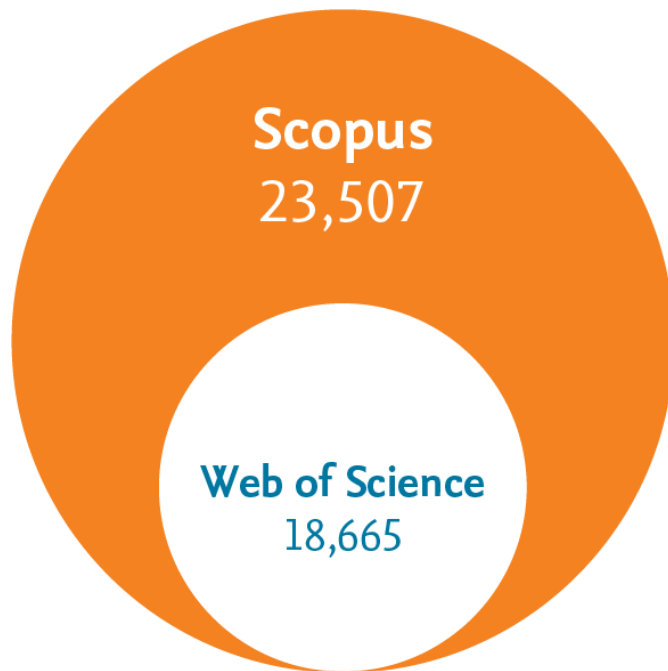
## Comparison with nearest peer

### Scopus

~22K titles >5,000 publishers Updated daily

### Web of Science

~18.6K titles (Core Collection + ESCI) 3,300 publishers Updated weekly





# Scopus selects high quality journals via the independent Content Selection & Advisory Board (CSAB)



The CSAB is chosen for their **expertise in specific subject areas**; many have (journal) Editor and Reviewer experience.



ERA (Australia)

UNAM



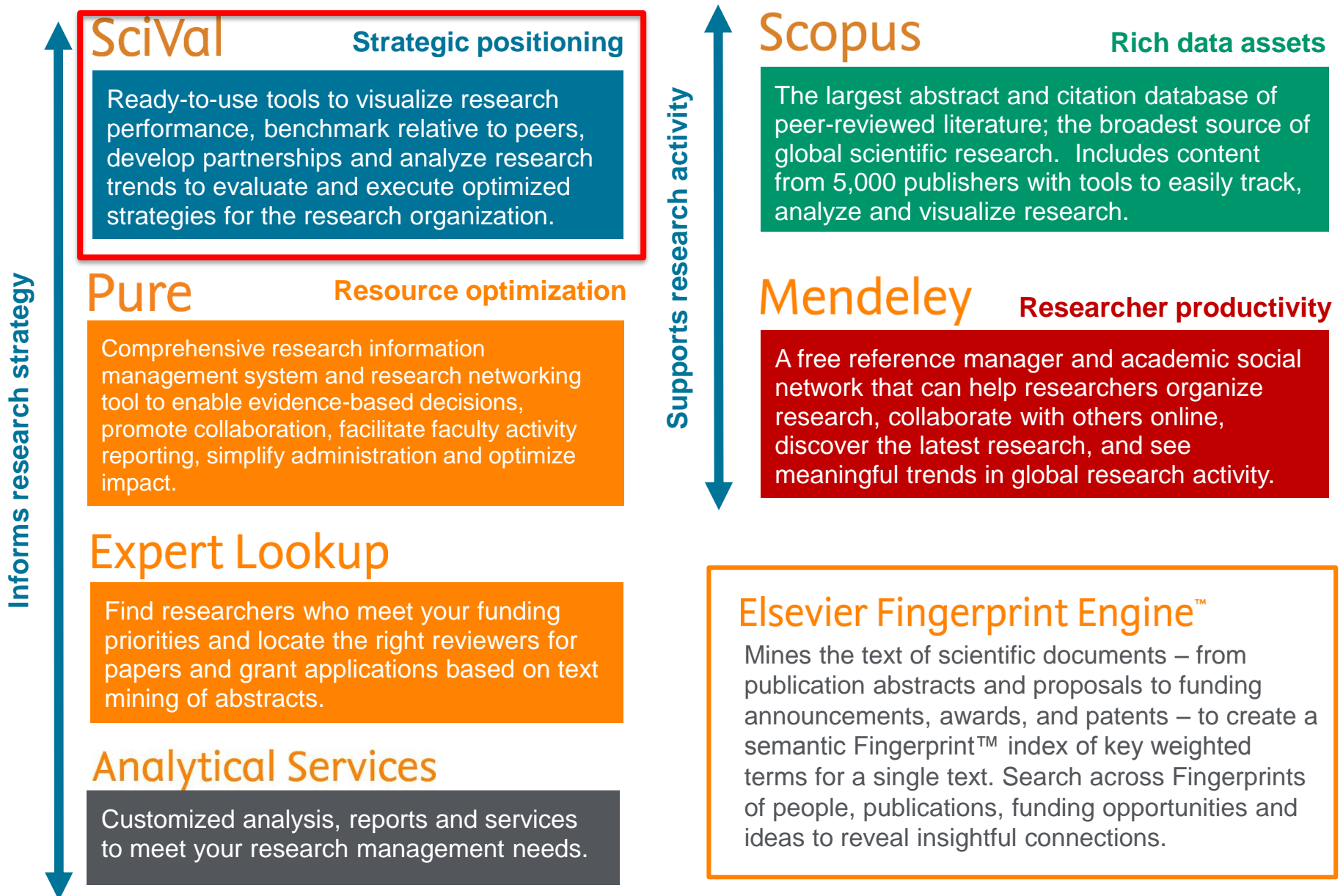
MINISTRY OF EDUCATION AND SCIENCE  
OF THE RUSSIAN FEDERATION



NRF National Research  
Foundation of Korea

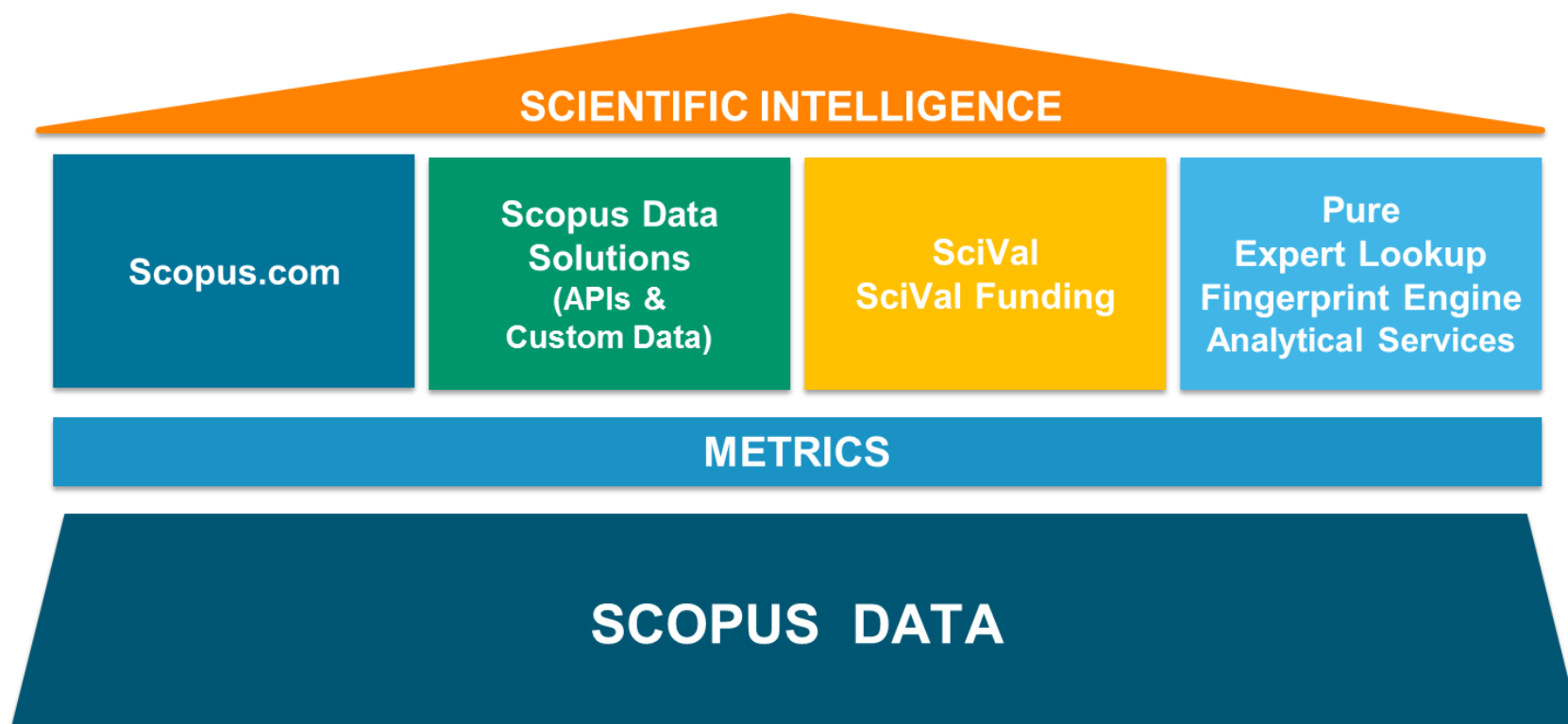


# Research Intelligence





## Scopus: Underlying data and metrics for Research Intelligence portfolio

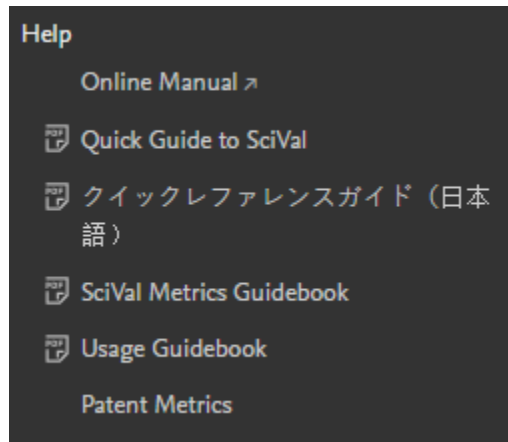


# Getting help



## Getting Help

- The spine menu will provide a line to help documentation



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# SciVal online manual

[Contents](#) | [Index](#) | [Search](#)

About SciVal ^

What is SciVal?

[What's new in this release?](#)

[Browser requirements](#)

Get started v

How you can use SciVal v

The Overview module v

The Benchmarking module v

The Collaboration module v

The Trends module v

The Reporting section v

Working with entities in SciVal v

Working with research areas v

Data and metrics v

About SciVal »

## What is SciVal?

SciVal is a set of integrated modules that enables your institution to make evidence-based strategic decisions. SciVal consists of four modules:

- Overview - Get an overview of the research performance of your institution and others based on output, impact, and collaborations.
- Benchmarking - Determine your strengths and weaknesses. Compare your research institution and teams to others based on performance metrics. Model different test scenarios.
- Collaboration - Identify and analyze existing and potential collaboration opportunities. Identify suitable collaboration partners. See who others are collaborating with.
- Trends - Analyze Research Areas to find top performing universities, authors and Scopus sources. Spot growing and declining topics in the field.

# SciVal online manual

Contents | Index | Search

About SciVal

- What is SciVal?
  - What's new in this release?
  - Browser requirements
- Get started
- How you can use SciVal
- The Overview module
- The Benchmarking module
- The Collaboration module
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scopus »

Marcel Vonder

Account

- Set Home Institution
- Manage Research Areas
- Activate Publisher Features
- Sales Platform
  - Google Usage Analytics
  - IP-Tracking
  - Contacts
  - Topic Prominence Preview
- Help
  - Online Manual
  - Quick Guide to SciVal
  - クイックレファレンスガイド (日本語)
  - SciVal Metrics Guidebook
  - Usage Guidebook
  - Patent Metrics
- Logout

sv\_quick\_reference\_guide.pdf 4 / 16

## Visualize research performance

Comprehensive summaries of any desired research entities such as institutions, countries, research groups and topics.

- Overview tab provides you with at-a-glance research performance overviews of any selected institutions, countries, research topics and more.
- Select entity panel allows you to select any research entities from:
  - Institutions and Groups
  - Researchers and Groups
  - Countries and Groups
  - Research Areas and Groups

Add an institution or a country by typing the name in the search box, and SciVal will provide you with a list of pre-defined institutions, countries and groups to select from.
- Select year range from:
  - 3 years
  - 3 years + current year
  - 3 years + current year + beyond current year
  - 5 years
  - 5 years + current year

Athena University

Overall research performance

Publications: 35,859 | Citations: 20,929

Scholarly Output

Performance by Research Area

Performance by Journal Category

Citation Count

Tweets by @SciVal Follow @SciVal

# 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

### New in this release

January 2018, code name: Kepler

- Topic Prominence in Science update: See which Topics your Researchers and Groups of Researchers are the most active in
- We have also enhanced the ASJC subject filtering relating to Topics
- Introducing the h5-index! The h-index calculated for the previous 5 years
- You are now able select Books and Book Chapters as a scholarly output metric in Benchmarking

[See the full list of features and benefits in the January 2018 release >](#)

[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 >](#)

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- [Delving Deeper into Topic Prominence in Science >](#)
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