



สำนักงาน  
คณะกรรมการวิจัยแห่งชาติ  
National Research  
Council of Thailand



# Introduction to Scopus for Research

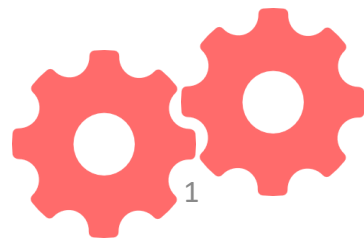
Data | Curated. Connected. Complete

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Elsevier South East Asia

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# Outline



1

Introducing to Scopus

2

Other research tools

3

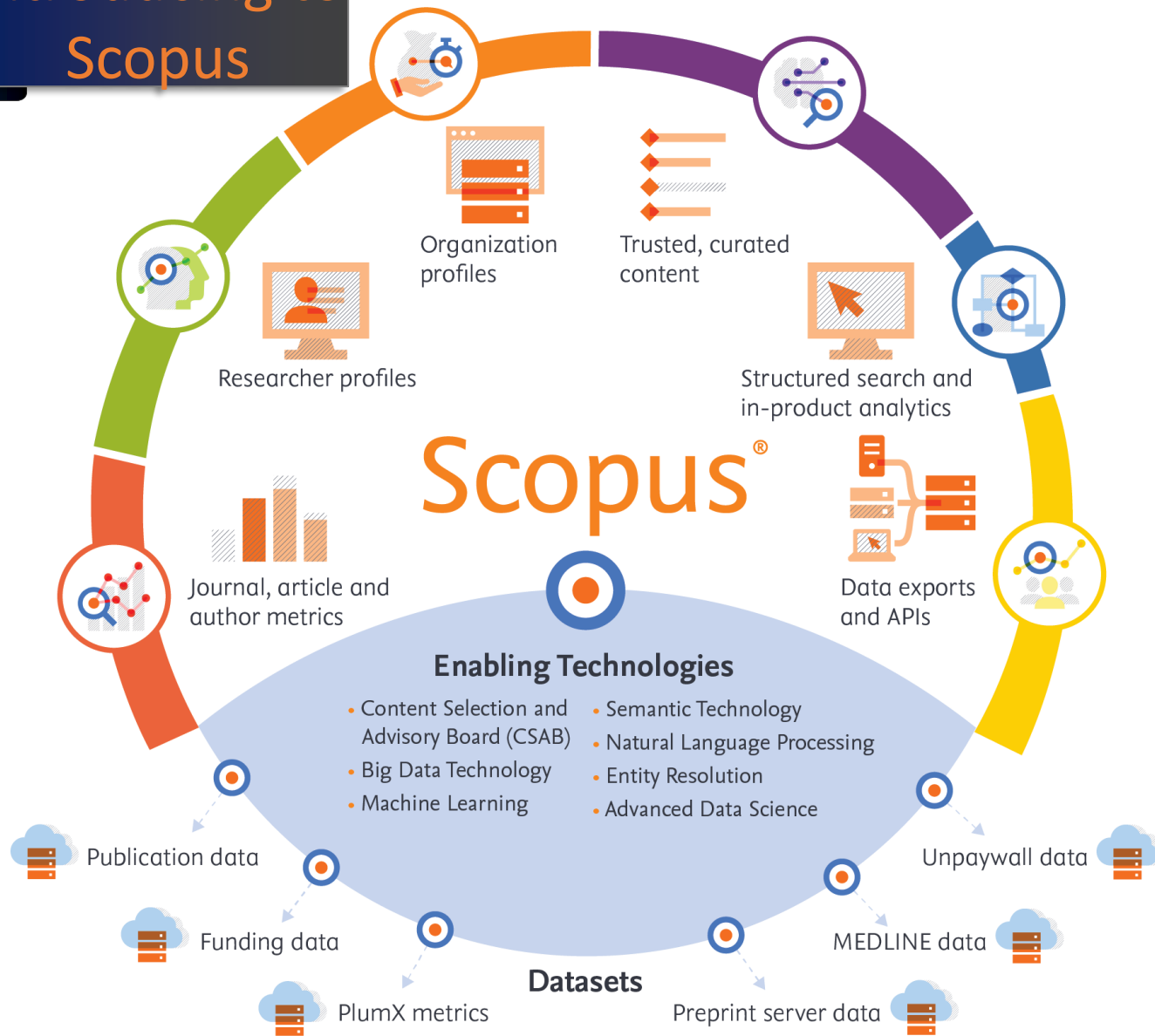
Q&A



# Introducing to Scopus



# Introducing to Scopus



Powerful search, profiles, metrics, APIs and structured data to help you **progress, evaluate and reflect** your institution's research activity

## Featuring

- 90M+ items
- 94K+ organization profiles
- 17M+ researcher profiles
- 3.5M+ awards and 450+ funders

## From

28K serials, 149K conferences, 292K books, 6,128 active Gold OA journals, from 7K+ publishers in 105 countries

- 20.74M OA documents
- 1.7M preprints from multiple servers
- "Articles in Press" from >8,740 titles

## Daily updates

- ~11K articles indexed per day indexed



Support researchers across their careers, from students through to advanced researchers, instructors, faculty, editors, and team leads, providing trusted content, profiles and intuitive access

Powerful search, filters, and refinement to surface insights within researcher workflows

Researcher profiles to power researcher networks and advance careers

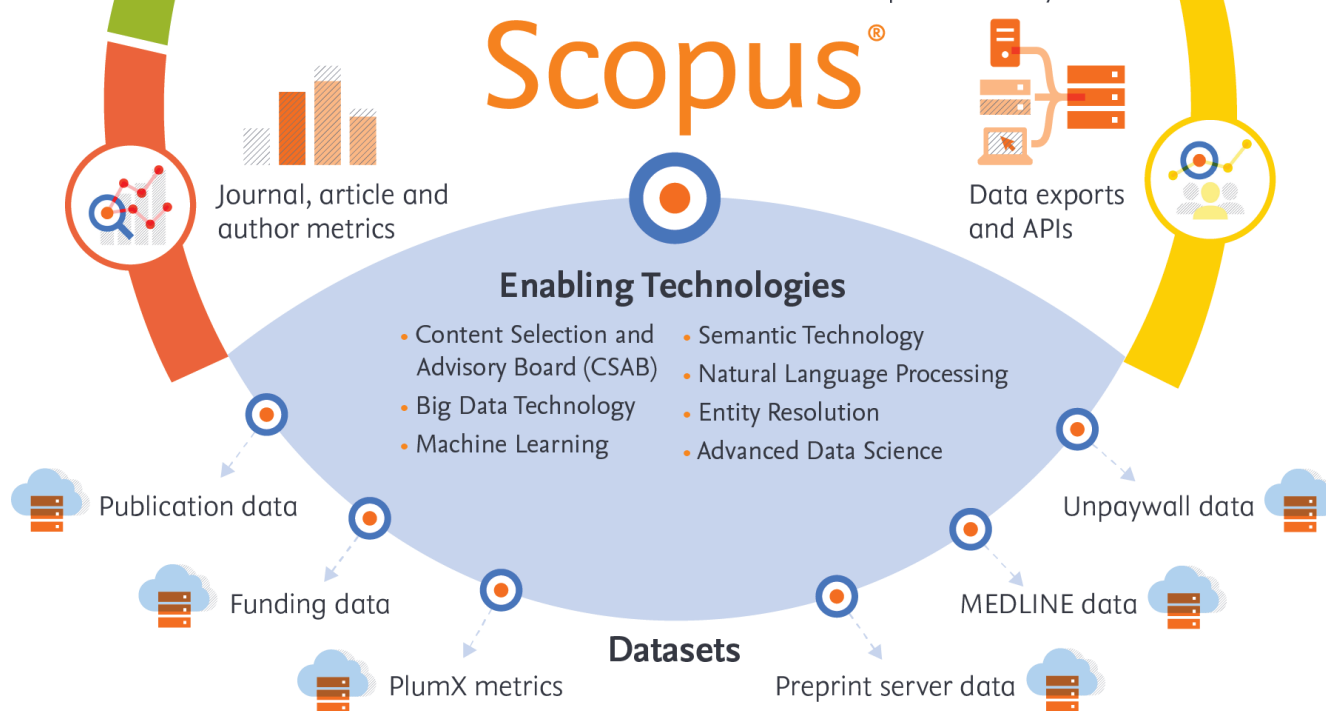
Organization profiles to surface expertise and inform analyses

Curated, multi-disciplinary, current, global content to inspire confidence

Continual improvement speed and ease of use, signals around research, and discovery and analysis



Powerful linked data,  
disambiguated, connected to  
key research entities...



...Insights for  
evaluations you can  
trust

Inform evidence-based researcher and organizational evaluations by helping faculty, team leads, librarians and administrators populate reports, assessments and analyses with ease and confidence

CSAB curated data set of sources  
with strict reassessment policies

Research landscape analyses that  
inform policies for organization  
hierarchies

Disambiguation technology for  
author and organization names

Targets for completeness and  
correctness to continually  
improve

Assessment of research landscape needs to target new data types for integration

## With **Scopus**, research services can:



Research  
Services

- **Access metadata and metrics about research to enhance internal systems and reports** with high-quality, authoritative research information
- **Promote researchers, journals, and institution with ease and confidence** to showcase achievements
- **Inspire confidence in analyses with constantly updated data** that is unmatched in quality and quantity, source-neutral, and curated by experts

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“You can’t compare other products to **Scopus** — no other output metrics offer the same kind of depth and coverage. They are fantastic... it is the kind of information that administrators and the Office of Research seek all the time.”

—Hector R. Perez-Gilbe, Research Librarian for the Health Sciences at University of California, Irvine, and UCI Health, U.S.

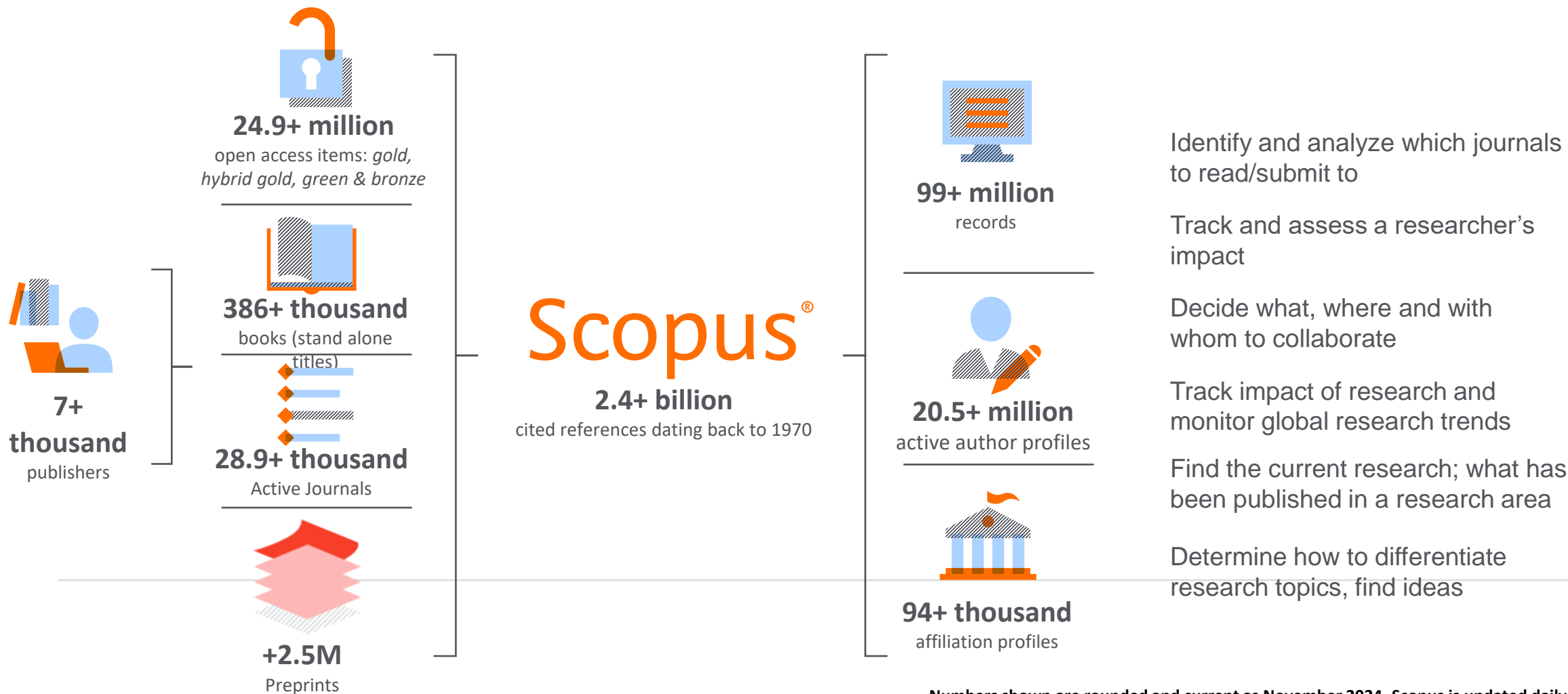
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# Introducing to Scopus



Curated, enriched and connected data that surfaces signals about research that are intuitive to access and understand



## Global Representation means global discovery

### Comprehensive coverage

#### Globally sourced

- **7,000+ publishers**
- **105 countries**
- **40 languages**

#### Format and historically inclusive

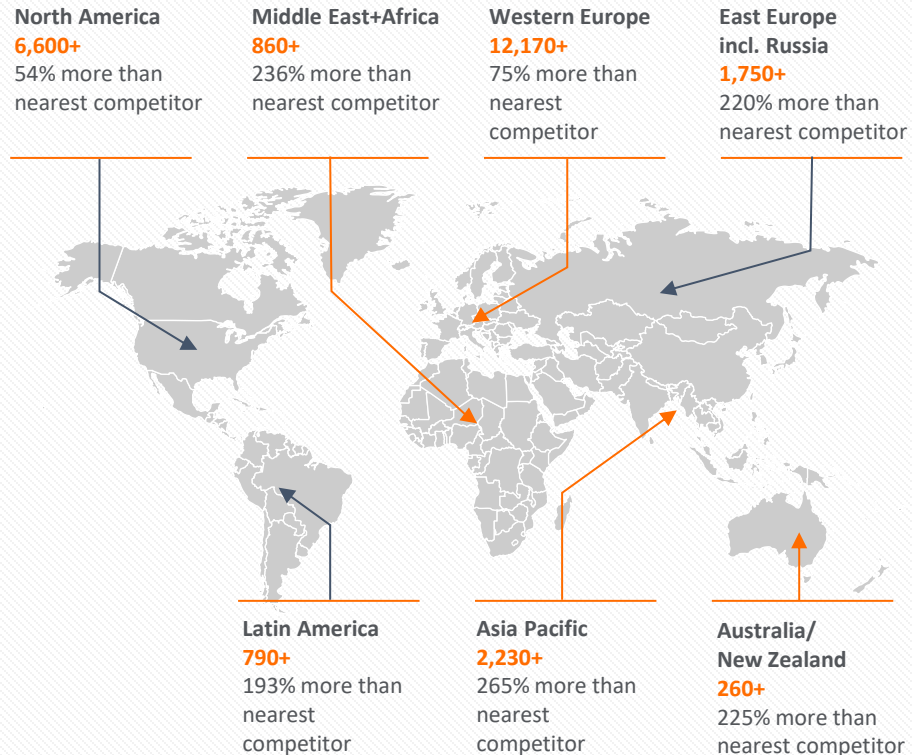
- **50%–230%** more global content
- Historical coverage **back to 1788**
- **18.4 M open access documents**
- Multiple regional content types  
(**journals, conferences, books, book series**)

#### Current

- **Updated daily**

### Global Representation

(number of titles)



# Vetted by independent experts

## Scopus Content Selection and Advisory Board (CSAB)

- Independent board of subject experts from all over the world
- Comprised of 17 Subject Chairs
- Chosen for their expertise in specific subject areas; many have (journal) Editor experience.

## Selection and reevaluation process

- Rigorous and transparent quality and ethics selection criteria used to evaluate potential titles
- Regularly reevaluates Scopus content and discontinues titles no longer meeting the guidelines, e.g. 536 titles removed between 2016–20.



Stage  
1

~3500

title suggestions per year on average

Stage  
2

39%

meet the Scopus minimum criteria

Stage  
3

46%

are accepted after the CSAB's review

~630

Serial titles meet the full Scopus criteria



# What content is in Scopus?

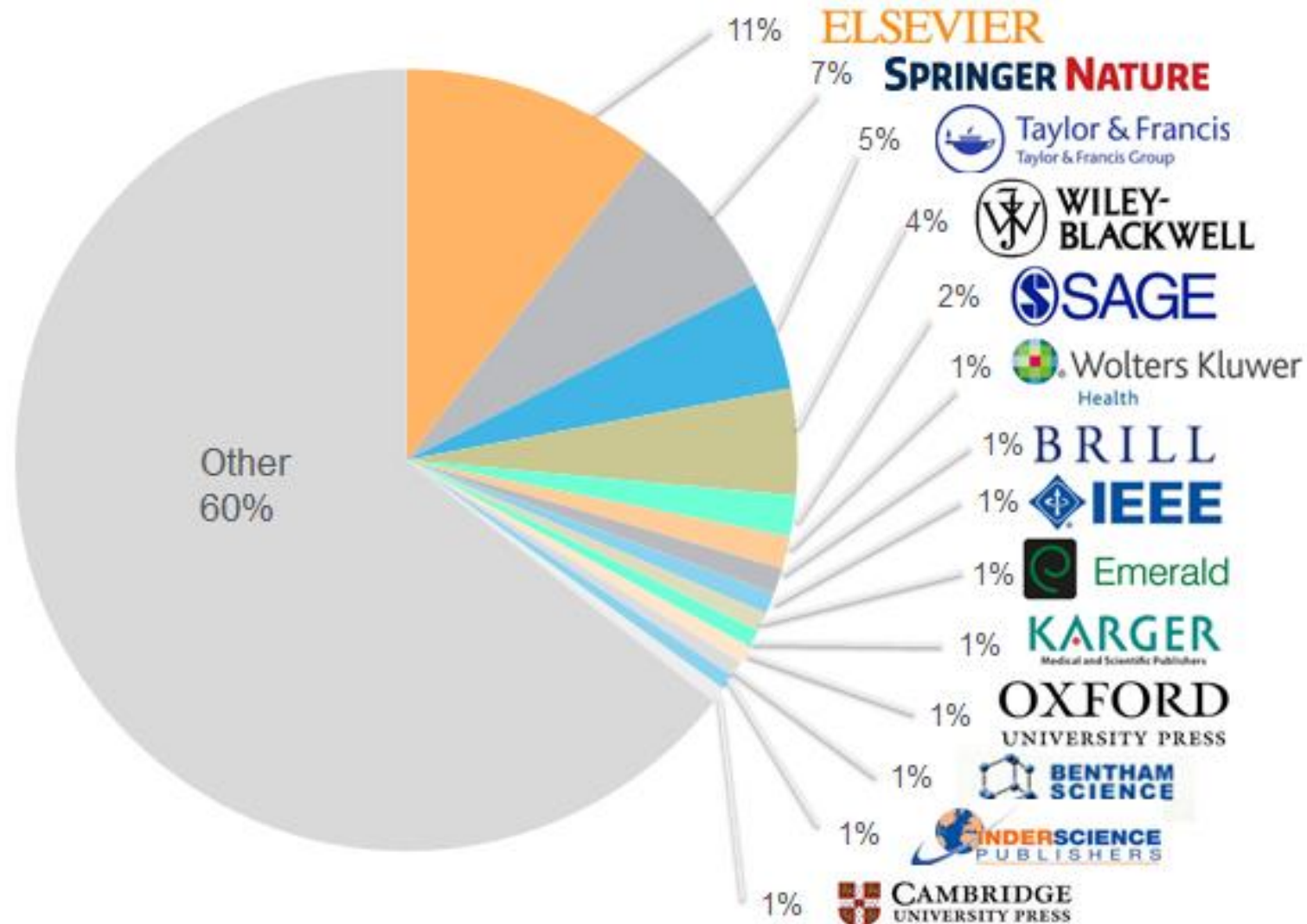
# Scopus

Only 40% of the journals in Scopus are from the big publishers (e.g. 11% Elsevier). 60% of the journals are smaller publishers and university journals.

Scopus delivers a comprehensive view on the world of research

No packages, no add-ons.

One all-inclusive subscription



\*Counts September 2017

# Scopus Coverage Summary



Global representation means global discovery across all subjects and content types

**989M** records from **28.9K** active journals, **161K** conferences and **386K** books (stand alone titles)  
from more than **7,000** publishers in **105** countries

- Updated daily—approximately **13,000** articles per day indexed
- **24.9M** open access documents (Gold, Hybrid Gold, Bronze & Green)
- **2.5M** preprints from multiple preprint servers
- **7,911** active Open Access journals

Number of journals by subject area**	Journals	Conferences	Books	Preprints
Physical sciences 15,634	<b>28,932**</b> active peer-reviewed journals <b>186</b> trade journals	<b>161K</b> conference events <b>12.58M</b> conference papers	<b>386K</b> stand-alone books <b>3.44M</b> total book items	<b>2.5M</b> preprints
Health sciences 15,475	<b>7,911</b> OA Journals (DOAJ/ROAD) <b>22.8M</b> fully-indexed funding acknowledgements		Focus on Social Sciences and A&H	7 preprint servers:
Social sciences 16,179	<ul style="list-style-type: none"><li>• Full metadata, abstracts and cited references (refs post-1970 only)</li><li>• Citations back to 1970</li></ul>	Mainly Engineering and Computer Sciences		<ul style="list-style-type: none"><li>• arXiv</li><li>• ChemRxiv</li><li>• bioRxiv</li><li>• medRxiv</li><li>• SSRN</li><li>• TechRxiv</li><li>• Research Square</li></ul>
Life sciences 8,379				

\*Journals may be classified in multiple subject areas: this count includes current actively indexed titles only

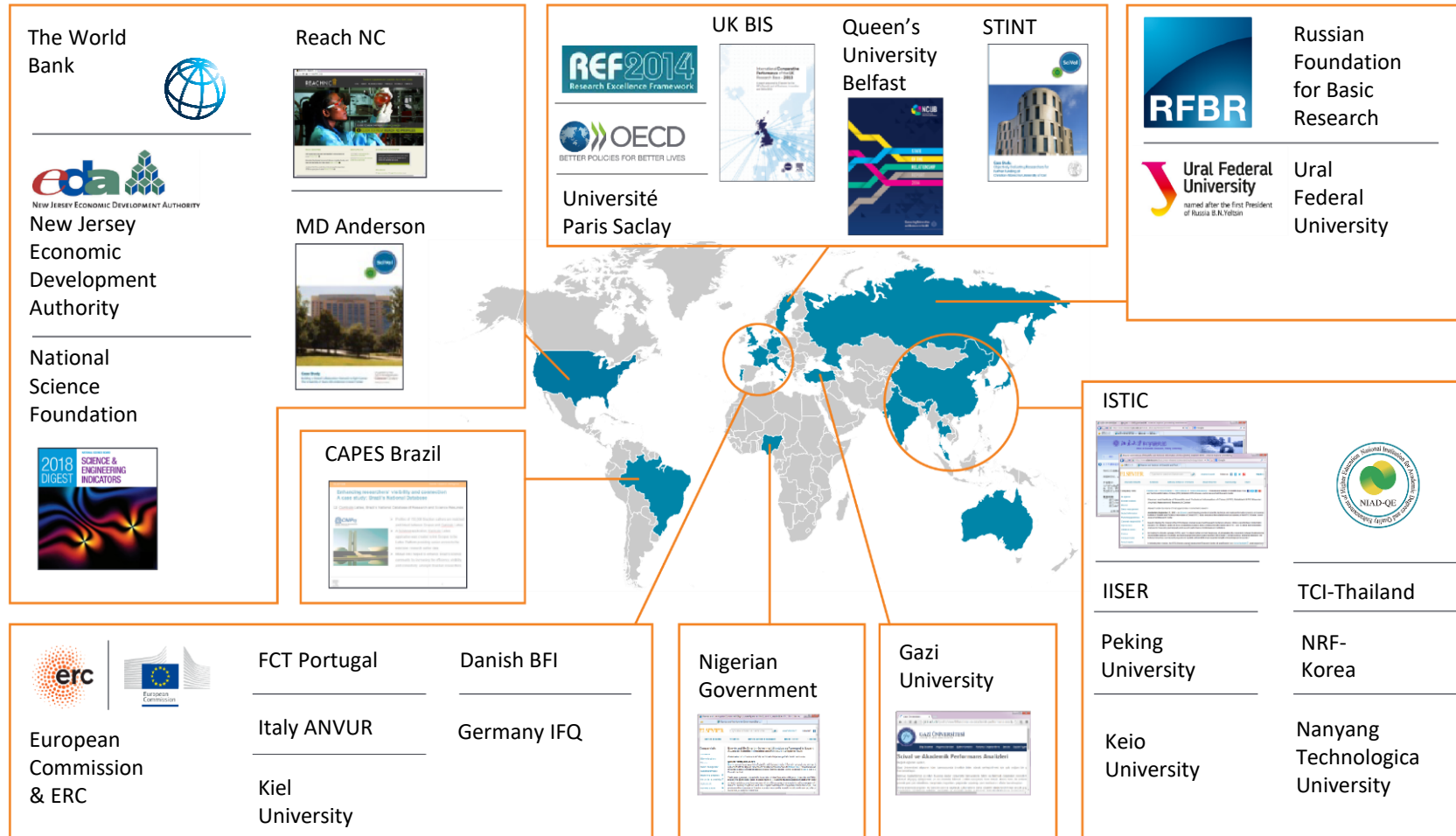
\*\*Total number of Scopus journals in database including inactive titles is 44,724

Numbers shown are rounded and current as November 2024. Scopus is updated daily



# Introducing to Scopus

**Scopus** is the Gold Standard:  
Evaluation, ranking, reporting, landscape analysis and other strategic efforts



## Rankings Organizations



# Introducing to Scopus



## World university rankings – QS

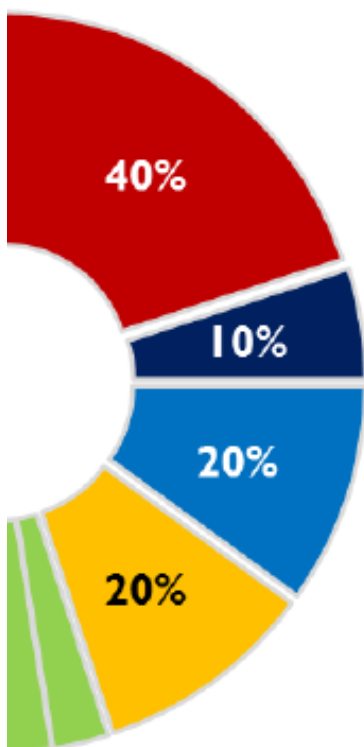
University Rankings use a combination of expert opinion (surveys) and objective data (including from Scopus)



**QS World University Rankings** – <http://www.topuniversities.com/university-rankings/world-university-rankings>

Published since 2004 by Quacquarelli Symonds

Formerly (until 2009) produced with Times Higher Education as *THE-QS World University Rankings*



### Academic reputation (40%)

From QS Global Academic Survey with almost 63,700 responses for 2014/15

### Employer reputation (10%)

From QS Global Employer Survey with 28,800 responses for 2014/15

### Citations per faculty (20%)

Citation counts from last five years considered

Citation data source: Scopus

Author self-citations excluded

Normalised by staff FTE figures

### Faculty/student ratio (20%)

FTE values used for faculty and students

### International students (5%)

Proportion of students that are international

### International faculty (5%)

Proportion of faculty that are international

Publication and citation data from Scopus is used

Scopus

## World university rankings – THE

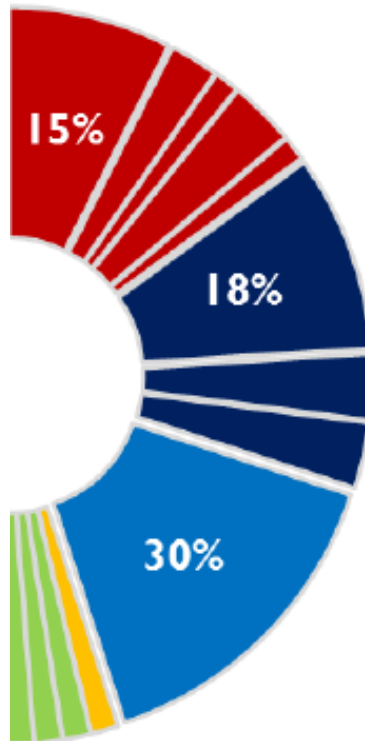
University Rankings use a combination of expert opinion (surveys) and objective data (including from Scopus)

**THE**

**THE World University Rankings** – <http://www.timeshighereducation.co.uk/world-university-rankings/>

Published since 2010 by the Times Higher Education

Broke away from the QS-partnered rankings prior to 2010 edition



### Teaching: the learning environment (30%)

Academic reputation survey: reputation for teaching (15%)  
Staff to student ratio (4.5%)  
Ratio of doctoral to bachelor's degrees awarded (2.25%)  
(Field-weighted) number of doctorates awarded per staff FTE (6%)  
Institutional income per staff FTE (2.25)

Publication and citation data from Scopus is used

### Research: volume, income and reputation (30%)

Academic reputation survey: reputation for research excellence (18%)  
(Field-weighted) research income per staff FTE (6%)  
(Field-weighted) research output per staff FTE (6%)

### Citations: research influence (30%)

(Field-weighted) citations in 2006-11 to papers published 2006-10

Scopus



### Industry income: innovation (2.5%)

Income from industry per staff FTE

### International outlook: staff, students and research (7.5%)

Ratio of international to domestic students (2.5%)  
Ratio of international to domestic staff (2.5%)  
(Field-weighted) proportion of research papers with international co-authors (2.5%)

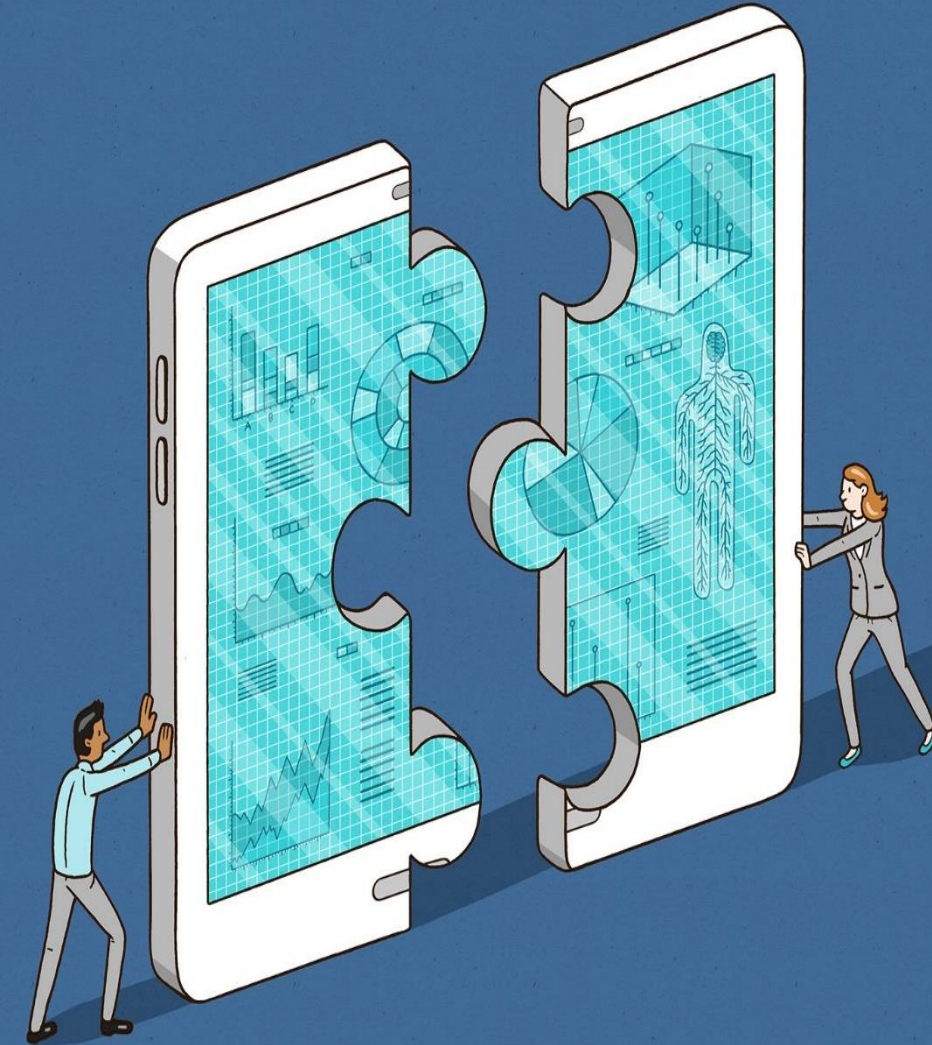




# Searching Scopus - Demonstration

# Use cases

- Login Process
- Exploring literature
- Identifying potential collaborators
- Assessing the quality or 'impact' of a paper
- Analyzing journals for reading or to target publication
- Your Scopus author profile
- Any other topics you want to nominate



# Log In Process



Scopus

<https://www.scopus.com/>

 Search

Sources

SciVal ↗



YK

## Start exploring

Log in using your institutional email

Documents

Authors

Researcher Discovery

Organizations

Scopus AI

New


Search tips ?


Search within

Article title, Abstract, Keywords



Search documents \*

+ Add search field  Add date range [Advanced document search >](#)

Search 

Search History

Saved Searches



Start searching and your history will appear here. If you need help to start searching, see our search tips.

# Exploring Literature



Scopus

Search

Sources

SciVal ↗



YK

Start exploring

Search Functions

Documents

Authors

Researcher Discovery

Organizations

Scopus AI

New

Search tips ?

Search within

Article title, Abstract, Keywords



Search documents \*

+ Add search field



Add date range

Advanced document search >

Refine Search  
Parameters

Search

Search History

Saved Searches



Start searching and your history will appear here. If you need help to start searching, see our [search tips](#).



## Advanced search

< Basic Search Advanced

[Search tips ?](#)

Enter query string

1

Advanced  
search using  
Boolean  
operators

[Outline query](#)

[Add Author name / Affiliation](#)

[Search Q](#)

ALL("Cognitive architectures") AND AUTHOR-NAME(smith)  
TITLE-ABS-KEY(\*somatic complaint wom?n) AND PUBYEAR AFT 1993  
SRCTITLE(\*field ornith\*) AND VOLUME(75) AND ISSUE(1) AND PAGES(53-66)

Operators

2

List of  
operators

AND	+
OR	+
AND NOT	+
PRE/	+
W/	+

Field codes ?

Textual Content

Affiliations

Authors

Biological Entities

3

Field codes

Ex: AF-ID

A unique  
identification  
number  
assigned to  
organizations  
affiliation with  
Scopus authors.



## Search Functionality

- **Choosing Search Terms**

Use specific search terms that are closely related to your research topic  
Include alternative words and abbreviations  
Avoid words that are too general

### Boolean Operators

- **AND**

Finds only documents that contain all of the terms.

The terms may be far apart from each other.

e.g. **food AND poison**

- **OR**

Finds documents that contain any of the terms.

It is used to cover synonyms, alternate spellings, or abbreviations.

e.g. **weather OR climate**

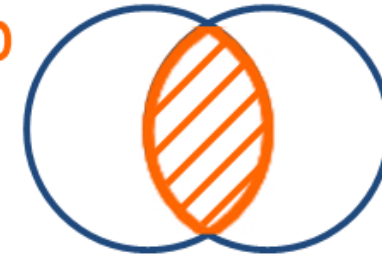
- **AND NOT**

Excludes documents that include the specified term from the search.

It must be used at the end of a search.

e.g. **e-learning AND NOT computer science**

**AND**



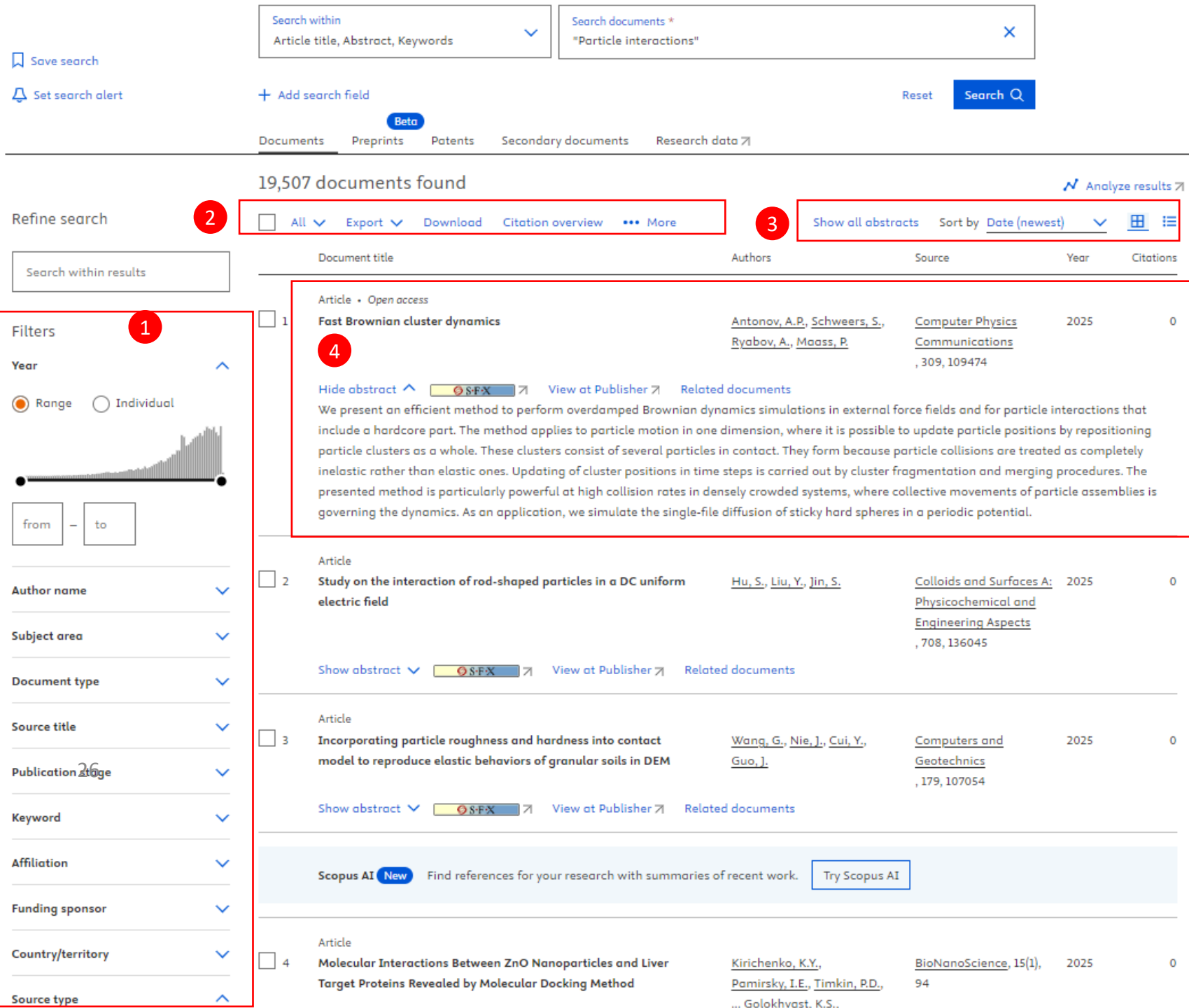
**OR**



**AND NOT**

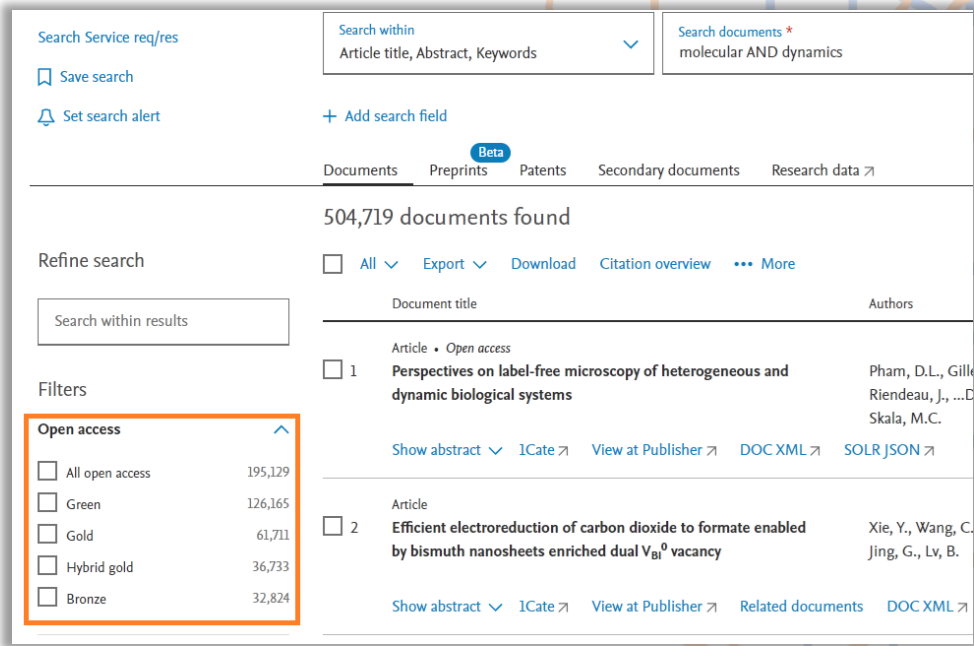


4 Abstract/  
Article Record



# Changes to Scopus Open Access Classification

- Scopus Open Access (OA) document classification and tagging is based on [Unpaywall](#) metadata because of its broad coverage from a wide range of publishers
- Scopus has changed its OA tagging policy to **fully align with the Unpaywall definitions.**
- This change comes into effect on Scopus.com starting Q2 2024



OA terms		Definition (Unpaywall)
Facets	Information label	
Gold	Gold (Open Access-only journal)	Published version with Creative Commons license, available on publisher platform. Documents are in <u>journals which only publish open access</u>
Hybrid Gold	Gold (hybrid journal)	Published version with Creative Commons license, available on publisher platform. Documents are in <u>journals which provide authors the choice of publishing open access</u>
Bronze	Other free-to-read at Publisher	Published version of record or manuscript accepted for publication, for which the <u>publisher has chosen to provide temporary or permanent free access</u> . As these documents would normally only be available to subscribers, no Creative Commons license is attached.
Green	Free-to-read at Repository	Published version or manuscript accepted for publication, available at repository. Documents may also be available gold or other free-to-read on the publisher platform

*Computer Physics Communications* • Open Access • Volume 309 • April 2025 • Article number 109474

Document type

Article • Hybrid Gold Open Access • Green Open Access

Source type

Journal

ISSN

00104655

DOI



10.1016/j.cpc.2024.109474


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Author/Article Information

# Fast Brownian cluster dynamics

[Antonov, Alexander P.](#)<sup>a, b</sup>  ; [Schweers, Sören](#)<sup>a</sup>  ;


[Ryabov, Artem](#)<sup>c</sup>  ; [Maass, Philipp](#)<sup>a</sup> 

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<sup>a</sup> Universität Osnabrück, Fachbereich Mathematik/Informatik/Physik, Institut für Physik, Barbarastrasse 7, Osnabrück, D-49076, Germany

<sup>b</sup> Institut für Theoretische Physik II: Weiche Materie, Heinrich-Heine-Universität Düsseldorf, Universitätsstrasse 1, Düsseldorf, D-40225, Germany

<sup>c</sup> Charles University, Faculty of Mathematics and Physics, Department of Macromolecular Physics, V Holešovičkách 2, Praha 8, CZ-18000, Czech Republic

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Cited by 0 documents

Inform me when this document is cited in Scopus:

[Set citation alert >](#) [Set citation feed >](#)

## Related documents

[Scaling laws for single-file diffusion of adhesive particles](#)

Schweers, S. , Antonov, A.P. , Ryabov, A. (2023) *Physical Review E*

[Counterintuitive Short Uphill Transitions in Single-File Diffusion](#)

Ryabov, A. , Lips, D. , Maass, P. (2019) *Journal of Physical Chemistry C*

[Solitons in Overdamped Brownian Dynamics](#)

Antonov, A.P. , Ryabov, A. , Maass, P. (2022) *Physical Review Letters*

[View all related documents based on references](#)

Find more related documents in Scopus based on:

[Authors >](#) [Keywords >](#)

## Abstract

Indexed keywords

SciVal Topics

Metrics

Funding details

## Abstract

We present an efficient method to perform overdamped Brownian dynamics simulations in external force fields and for particle interactions that include a hardcore part. The method applies to particle motion in one dimension, where it is possible to update particle positions by repositioning particle clusters as a whole. These clusters consist of several particles in contact. They form because particle collisions are treated as completely inelastic rather than elastic ones. Updating of cluster positions in time steps is carried out by cluster fragmentation and merging procedures. The presented method is particularly powerful at high collision rates in densely crowded systems, where collective movements of particle assemblies is governing the dynamics. As an application, we simulate the single-file diffusion of sticky hard spheres in a periodic potential. © 2024 The

# Source preview flyout

The “Source preview flyout” is now available to provide the most important journal information on the document level.

- It helps researchers decide to continue reviewing details of the article or look for more information about the journal where this article was published.
- The flyout contains among other, the following information:
  - Journal metrics such as: CiteScore, SJR and SNIP.
  - Journal's quartile, percentile and ranks for each ASJC (All Science Journal Classification) category that the journal belongs to



SciVal Source details preview

Journal of Molecular Biology

Publisher: Elsevier  
Source type: Journal

[View full source details](#)

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Metrics

10.2 CiteScore 2021 ⓘ	2.592 SJR 2021 ⓘ	1.366 SNIP 2021 ⓘ
--------------------------	---------------------	----------------------

CiteScore Rank ⓘ

ASJC Category	Quartile	Percentile	Rank
Biophysics	Q1	92nd	11 / 137
Structural Biology	Q1	84th	8 / 49
Molecular Biology	Q1	82nd	67 / 386

View all

Inform r  
Scopus:

[Set citat](#)

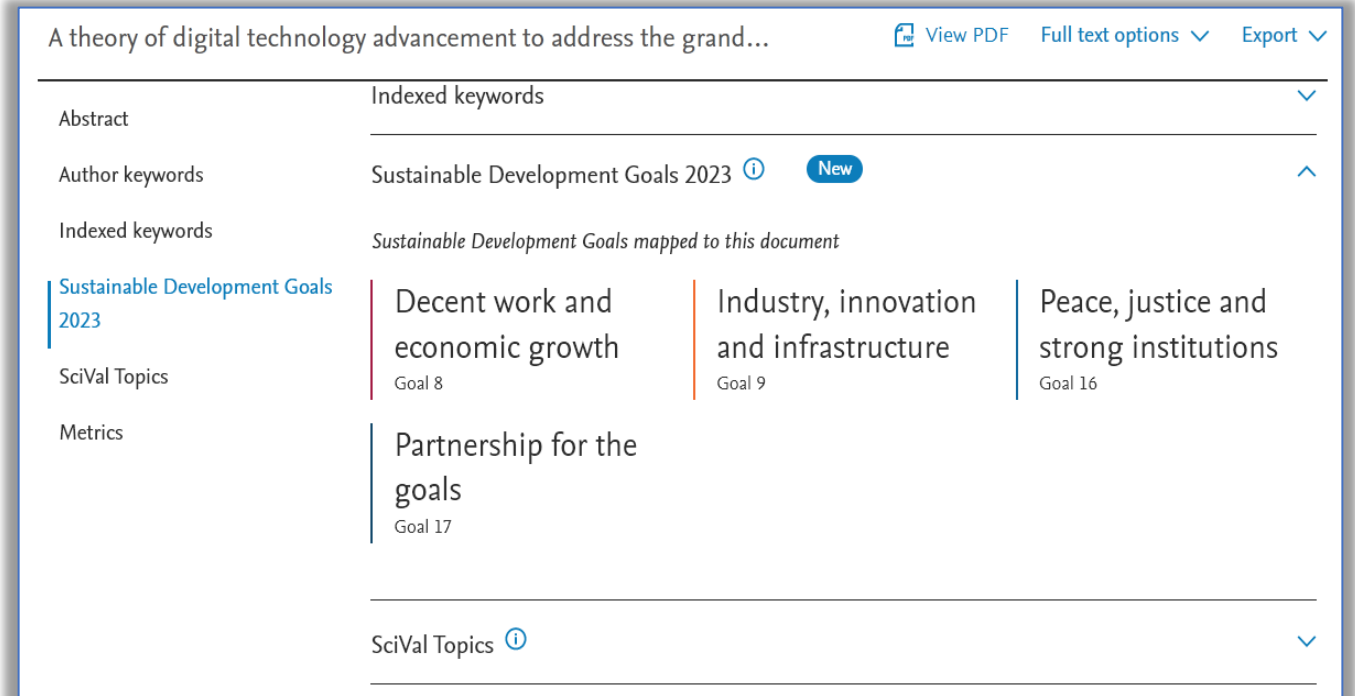


# Sustainable Development Goal (SDGs)

We use a blend of **expert curation and trusted technology** to map each publication to its relevant United Nations SDGs.

In Q2 2023, we released the 2023 SDG upgrade on the Document Details pages in Scopus:

- More than 25M Scopus records contributed to at least one SDG (have a 2023 SDG tag).
- SDG 2023 classifications now include SDG17 “Partnerships for the goals”.



The screenshot displays a document titled "A theory of digital technology advancement to address the grand..." with options to "View PDF", "Full text options", and "Export". The left sidebar lists sections: Abstract, Author keywords, Indexed keywords, Sustainable Development Goals 2023 (highlighted), SciVal Topics, and Metrics. The main content area shows "Indexed keywords" with "Sustainable Development Goals 2023" marked as "New". Below this, it states "Sustainable Development Goals mapped to this document" and lists three goals: "Decent work and economic growth" (Goal 8), "Industry, innovation and infrastructure" (Goal 9), and "Peace, justice and strong institutions" (Goal 16). A fourth goal, "Partnership for the goals" (Goal 17), is listed below these. At the bottom, there is a "SciVal Topics" section.

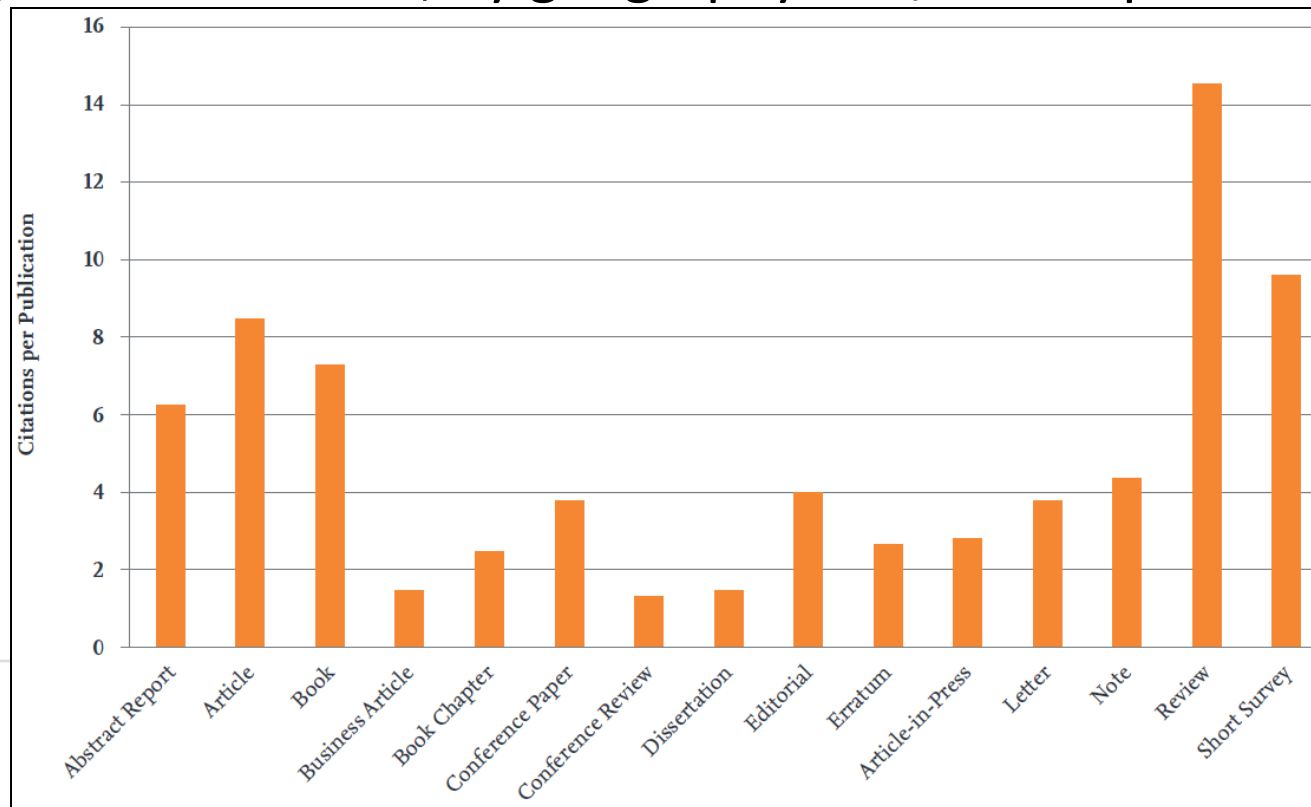
# Scopus Journal and Articles Metrics

# What are the main purposes of Metrics?

- **Evaluating research performance** is typically carried out by those in a position of authority relative to those being evaluated.
  - a funding body or university administration allocating funds,
  - a dean or department head deciding which researcher to recruit or award tenure to
- **Showcasing performance** is generally conducted by those who are competing for limited resources.
  - researchers look for ways to demonstrate that they should receive funding
  - a research group leader may showcase their past performance to help to secure additional time on the Large Hadron Collider,
  - university administration may highlight areas of outstanding performance to help to attract overseas students to their institution.
- **Scenario modelling of potential outcomes**, sometimes referred to as “fantasy football”
  - a research group leader wondering how recruiting Dr A rather than Dr B would impact their team’s performance,
  - a dean considering the financial implications of combining linguistics and language,
  - or university administration considering how to restructure the physics and chemistry schools.
- **Ranking from high to low.** A parent supporting their child in university applications may want to know which university is the best, and a researcher might ask where they can find the leading research group in the area of photonics, for example.

# More factors that influence metrics

- Variety in the **size** of entities within the data set
- Multiple **publication types** within the data set
- **Coverage** of data source, by geography and/or discipline



Citation rates for different publication-types as classified in Scopus. This chart displays citations received up to August 2013 per item published during the period 2008-2012.

# Two Golden Rules of using research metrics

Always use both qualitative  
and quantitative input into  
your decisions

Always use more than one  
research metric as the  
quantitative input

- Metrics should be used together with **peer review and expert opinion**
- When metrics and peer review or expert opinion give **different answers, probe further**
- “Metrics” does not only mean bibliometrics
- **Multiple metrics used together give the richest perspective**



# Type of research metrics

## Journal-Level Metrics

CiteScore, SNIP, and SJR



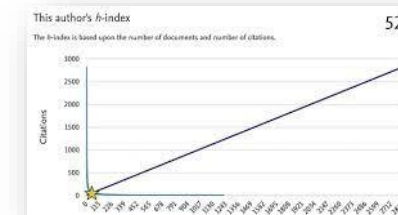
## Article-Level Metrics

PlumX



## Author Metrics

H-Index





# Article-Level Metrics

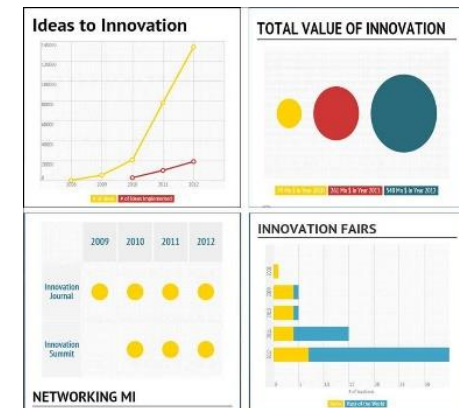
PlumX

# Understanding Article-level Metrics

Article-level metrics (ALMs) quantify the reach and impact of published research.

ALMs seek to incorporate data from new sources (such as social media mentions) along with traditional measures (such as citations) to present a richer picture of how an individual article is being discussed, shared, and used.

- Citation
- Field-Weighted Citation Impact (FWCI)
- PlumX Metrics



# Citation and Field-Weighted Citation Impact

## Citations

- Citation counts how many time the particular article is used as reference.
- The more citations received, the more published article referred to your article and made use of knowledge you built.

### Citation count

*# of citations accrued since publication*

A simple measure of attention for an article, journal or researcher. As with all citation-based measures, it is important to be aware of citation practices. Citation counts can include measures of societal impact, such as patent, policy and clinical citations. "Effective Strategies for Increasing Citation Frequency"<sup>3</sup> lists 33 different ways to increase citations.

## Field-Weighted Citation Impact (FWCI)

- Field-Weighted Citation Impact shows how well cited this document is when compared to similar documents.
- The FWCI is the ratio. **A value greater than 1.00 means the document is more cited than expected according to the average.**

It takes into account:

- The year of publication - three-year window
- Document type, and
- The disciplines associated with its source.

### Field-Weighted Citation Impact (FWCI)

*# of citations received by a document*

*expected # of citations for similar documents*


Similar documents are ones in the same discipline, of the same type (e.g., article, letter, review) and of the same age. An FWCI of 1 means that the output performs just as expected against the global average. More than 1 means that the output is more cited than expected according to the global average; for example, 1.48 means 48% more cited than expected.

# FWCI – article level

*European Journal of Social Psychology* • Volume 49, Issue 7, Pages 1401 - 1420 • 1 December 2019

## What is threatening about refugees? Identifying different types of threat and their association with emotional responses and attitudes towards refugee migration

Landmann, Helen<sup>a</sup>  ; Gaschler, Robert<sup>b</sup>; Rohmann, Anette<sup>a</sup>


 [Save all to author list](#)

<sup>a</sup> Department of Psychology, Community Psychology, FernUniversität in Hagen, Hagen, Germany

<sup>b</sup> Department of Psychology, Experimental Psychology—Learning, Motivation, Emotion, FernUniversität in Hagen, Hagen, Germany

25 95th percentile  
Citations in Scopus

3.81  
FWCI 

50  
Views count  ↗

[View all metrics >](#)

### FWCI

Field-Weighted Citation Impact shows how well cited this document is when compared to similar documents. A value greater than 1.00 means the document is more cited than expected according to the average. It takes into account:

- The year of publication
- Document type, and
- Disciplines associated with its source.

The FWCI is the ratio of the document's citations to the average number of citations received by all similar documents over a three-year window. Each discipline makes an equal contribution to the metric, which eliminates differences in researcher citation behavior.



Metrics displaying this icon are compiled according to [Snowball Metrics](#) ↗, a collaboration between industry and academia. Learn more about Article metrics in Scopus.



# PLUMX

## Metrics Categories



### USAGE

(clicks, downloads, views, library holdings, video plays)



### CAPTURES

(bookmarks, code forks, favorites, readers, watchers)



### MENTIONS

(blog posts, comments, reviews, Wikipedia links)



### SOCIAL MEDIA

(+1s, likes, shares, tweets)



### CITATIONS

(citation indexes, patent citations, clinical citations)

# PLUMX Print

The five categories of metrics are displayed for quick and easy understanding in a data visualization known as the Plum Print. When you rollover the Plum Print, more detail for each of the categories is visible. You can also click on it to get to all the detail for the metrics.

- The Plum Print is dynamic, each circle in the Plum Print represents the metrics in the associated category by color.
- The larger the circle, the more metrics in that category.
- There is a variety of ways to represent the Plum Print on article pages or in result lists.
- Designed to communicate engagement without a score





# Journal-Level Metrics

CiteScore, Snip, or SJR

# Journal-level metrics in ScienceDirect/Scopus

## Check quality of journals and books

Each metric may offer a different emphasis based on its underlying data source, method of calculation, or context of use. For this reason, Elsevier promotes the responsible use of research metrics encapsulated in two “golden rules”.

Those are:

- Always use both *qualitative* and *quantitative* input for decisions (i.e. expert opinion alongside metrics),
- Always use more than one research metric as the quantitative input.

Focus on CiteScore for percentile calculations



ELSEVIER

*Citations in a year to documents published in 4 years*

*# of documents in 4 years*



*Citations in a year to documents published in 4 years*

*# of documents in 4 years*

### CiteScore

- CiteScore itself is **an average** of the sum of the citations received in a given year to publications published **in 4 years** divided by the sum of publications in the same 4 years.
- Takes **4 years** (including current year) into account.



Universiteit Leiden

*Journal's citation count per paper*

*Citation potential in its subject field*

### SNIP

- SNIP = Sourced Normalized Impact per Paper
- SNIP accounts for **field-specific differences** in citation practices.
- measures contextual citation impact and enables direct comparison of journals in different subject fields
- Outlier scores are closer to average
- Takes **3 years** into account.



Scimago  
Lab

*Average # of weighted citations received in a year*

*# of documents published in previous 3 years*

### SJR

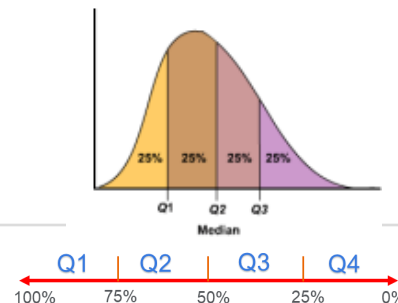
- SJR = SCImago Journal Rank
- SJR is a measure of the scientific influence of scholarly journals that accounts for both **the number of citations received** by a journal and the importance or **prestige of the journals where the citations come from**.
- SJR weights each incoming citation to a journal by the SJR of the citing journal, with a citation from a high-SJR source counting for more than a citation from a low-SJR source.
- Takes **3 years** into account.

## CiteScore

- CiteScore itself is **an average** of the sum of the citations received in a given year to publications published **in 4 years** divided by the sum of publications in the same 4 years.
- Takes **4 years** (including current year) into account.

# CiteScore

- **CiteScore** is the number of citations to documents (articles, reviews, conference papers, book chapters, and data papers) by a journal over four years, divided by the number of the same document types indexed in Scopus and published in those same four years.
- **CiteScore Percentile** indicates the relative standing of a serial title in its subject field based on the CiteScore metric. The Percentile and Ranking are relative to a specific Subject Area. The Source table only displays the Subject Area where the source performs the best.
- **Source normalised impact per paper (SNIP)** divides the journal's citation count per paper by the expected citation count in its subject field (Calculated by CWTS)
- **SciMago Journal Rank (SJR)** - Citations are weighted depending on the quality and the subject field of the source journal (Calculated by SciMago)



Scopus

Search Sources Lists SciVal Quick Link Test

Source details

Journal of Experimental Botany

Scopus coverage years: from 1950 to Present

Publisher: Oxford University Press

ISSN: 0022-0957 E-ISSN: 1460-2431

Subject area: Agricultural and Biological Sciences: Plant Science Biochemistry, Genetics and Molecular Biology: Physiology

Source type: Journal

View all documents > Set document alert Save to source list Source Homepage iCate

CiteScore 2020 9.7

SJR 2020 2.616

SNIP 2020 1.839

## CiteScore rank 2020

Category	Rank	Percentile	
Agricultural and Biological Sciences	#11/445	97th	In top 3% of journals in the subject
Plant Science			
Biochemistry, Genetics and Molecular Biology	#18/169	89th	In top 11% of journals in the subject
Physiology			





# Author Metric

H-Index

# H-index in Author Profile

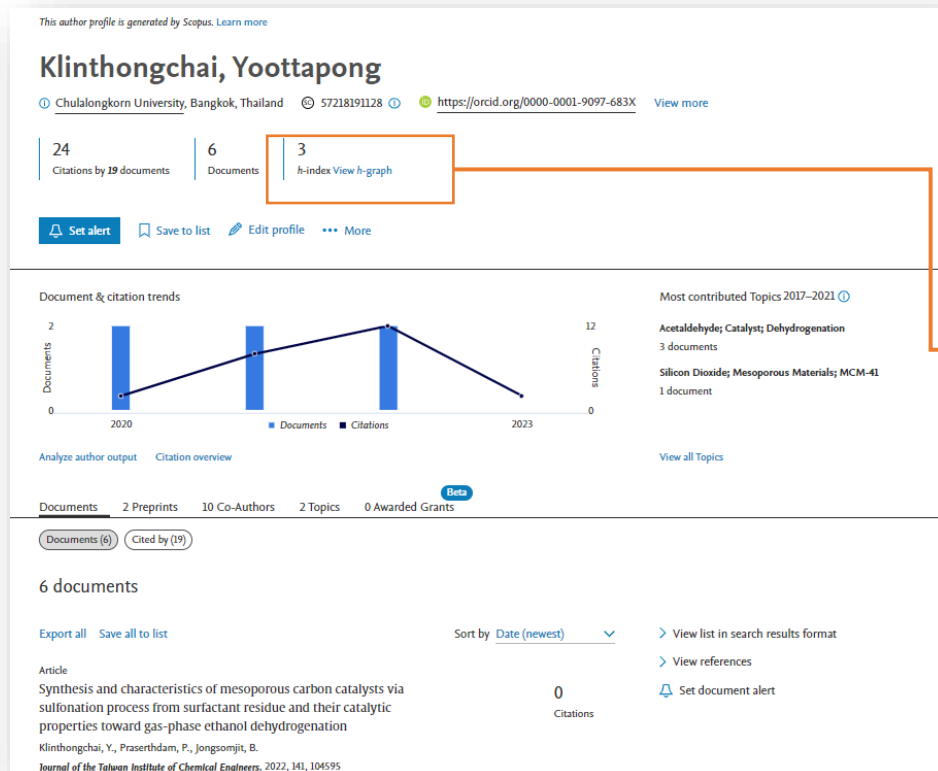
***h-index*** and ***h-graph***: View a researcher's performance based on career publications, as measured by the lifetime number of citations that each published article receives; *h*-indices indicate a balance between productivity (scholarly output) and citation influence (citation count).



## *h-index*

# of articles in the collection (*h*) that have received at least (*h*) citations over the whole period

For example, an *h-index* of 8 means that 8 of the collection's articles have each received at least 8 citations. *h-index* is not skewed by a single highly cited paper, nor by a large number of poorly cited documents. This flexible measure can be applied to any collection of citable documents. Related *h*-type indices emphasize other factors, such as newness or citing outputs' own citation counts.<sup>4</sup>



## Klinthongchai, Yoottapong

Chulalongkorn University, Bangkok, Thailand  
Author ID: 57218191128

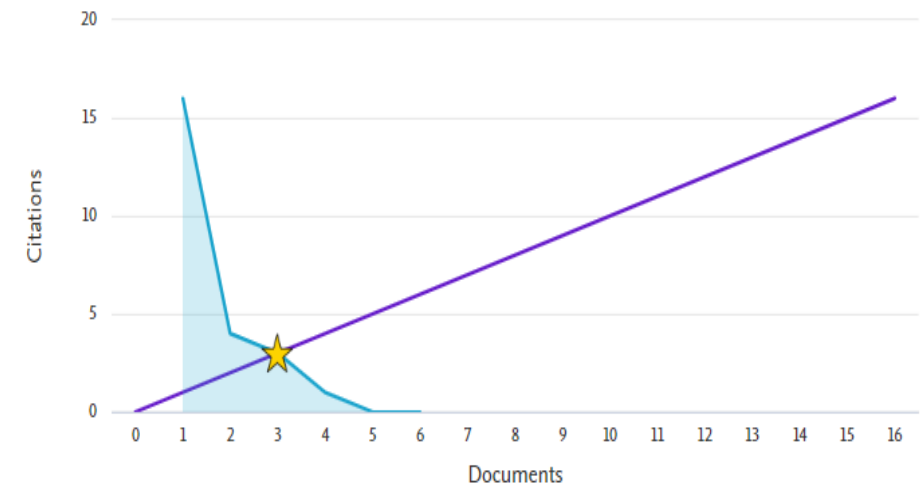
Analyze documents published between: 2020 to 2023  
☐ Exclude self citations ☐ Exclude citations from books [Update Graph](#)

Documents ↓ Citations ↓ Title ↓

1	16	Synthesis, characterist...
2	4	Effect of TMB/P123 ra...
3	3	Study of deactivation ...
4	1	Characterization of m...
5	0	Synthesis and charac...
6	0	Screen-Printed Micro...

### This author's *h-index*

The *h-index* is based upon the number of documents and number of citations.



# Advantages of h-index

- Combines quantity (publications) and impact (citations).
  - Objective measure of performance
  - Insensitive to low cited papers
  - Better than other single-number criteria:
    - Impact factor, total number of documents, total number of citations, citation per paper rate and number of highly cited papers
  - Easy to obtain
  - Easy to understand
-

# Limitations of h-index

- Publication and citation patterns vary between disciplines
  - Not time sensitive
  - Highly cited papers are not reflected in the h-index
  - Easy to obtain, risk of indiscriminate use and over-reliance
  - May change behaviour of scientists (self-citations)
  - There are also technical limitations:
    - Difficulty to obtain the complete output of scientists
    - Deciding whether self-citations should be removed or not
-

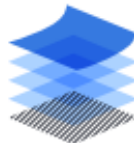
# Summary of all metrics



## Citation count

*# of citations accrued since publication*

A simple measure of attention for an article, journal or researcher. As with all citation-based measures, it is important to be aware of citation practices. Citation counts can include measures of societal impact, such as patent, policy and clinical citations. "Effective Strategies for Increasing Citation Frequency"<sup>3</sup> lists 33 different ways to increase citations.



## Document count

*# of items published by an individual or group of individuals*

A researcher using document count should also provide a list of document titles with links. If authors use an ORCID iD—a persistent scholarly identifier—they can draw on numerous sources for document count including Scopus, ResearcherID, CrossRef and PubMed.

Register for an ORCID iD at [orcid.org](https://orcid.org)



## Field-Weighted Citation Impact (FWCI)

*# of citations received by a document*  
*expected # of citations for similar documents*

Similar documents are ones in the same discipline, of the same type (e.g., article, letter, review) and of the same age. An FWCI of 1 means that the output performs just as expected against the global average. More than 1 means that the output is more cited than expected according to the global average; for example, 1.48 means 48% more cited than expected.



## h-index

*# of articles in the collection (h) that have received*  
*at least (h) citations over the whole period*

For example, an *h-index* of 8 means that 8 of the collection's articles have each received at least 8 citations. *h-index* is not skewed by a single highly cited paper, nor by a large number of poorly cited documents. This flexible measure can be applied to any collection of citable documents. Related *h-type* indices emphasize other factors, such as newness or citing outputs' own citation counts.<sup>4</sup>



## Citescore

*citations to documents published in 4-year period*  
*# of documents in same 4-year period*

This comprehensive, current and open metric for journal citation impact is available in a free layer of [Scopus.com](https://scopus.com). It includes a yearly release and monthly CiteScore Tracker updates.

CiteScore calculations include citations from articles, reviews, conference papers, book chapters and data papers. See [www.scopus.com/sources](https://www.scopus.com/sources)



## SCImago Journal Rank (SJR)

*average # of weighted citations received in a year*  
*# of documents published in previous 3 years*

Citations are weighted—worth more or less—depending on the source they come from. The subject field, quality and reputation of the journal have a direct effect on the value of a citation. Can be applied to journals, book series and conference proceedings.

Calculated by SCImago Lab ([www.scimagojr.com](https://www.scimagojr.com)) based on Scopus data.





# Summary of all metrics



## Source Normalized Impact Per Paper (SNIP)

*journal's citation count per paper  
citation potential in its subject field*

The impact of a single citation will have a higher value in subject areas where citations are less likely, and vice versa. Stability intervals indicate the reliability of the score. Smaller journals tend to have wider stability intervals than larger journals.

Calculated by CWTS ([www.journalindicators.com](http://www.journalindicators.com)) based on Scopus data.



## Journal Impact Factor

*citations in a year to documents published in previous 2 years  
# of citable items in previous 2 years*

Based on Web of Science data, this metric is updated once a year and traditionally released in June following the year of coverage as part of the Journal Citation Reports®. JCR also includes a Five-year Impact Factor.



## Percentile benchmark (articles)

*compares items of same age, subject area & document type over an 18-month window*

The higher the percentile benchmark, the better. This is available in Scopus for citations, and also for Mendeley readership and tweets. Particularly useful for authors as a way to contextualize citation counts for journal articles as an indicator of academic impact.



## Outputs in top percentiles

*extent to which a research entity's documents are present in the most-cited percentiles of a data universe*

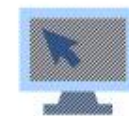
Found within SciVal, outputs in top percentiles can be field weighted. It indicates how many articles are in the top 1%, 5%, 10% or 25% of the most cited documents. Quick way to benchmark groups of researchers.



## Usage

*# of downloads, clicks, views, library holdings, video plays*

Signals if anyone is reading the documents or otherwise using the research. See [plumanalytics.com/learn/about-metrics/usage-metrics/](http://plumanalytics.com/learn/about-metrics/usage-metrics/)



## Captures

*# of bookmarks, code forks, favorites, readers, watchers*

Indicates that someone wants to come back to the work. Captures can be a leading indicator of future citations. See [plumanalytics.com/learn/about-metrics/capture-metrics/](http://plumanalytics.com/learn/about-metrics/capture-metrics/)



## Mentions

*# of blog posts, comments, reviews, Wikipedia references, news media*

Show how people are interacting with the research, and whether the research is gaining attention both within academic networks and in broader forums. See [plumanalytics.com/learn/about-metrics/capture-metrics/](http://plumanalytics.com/learn/about-metrics/capture-metrics/)



## Social media

*# of shares, likes, comments, tweets, ratings*

Social media can help measure "buzz" and attention. Social media can also be a good measure of how well a particular piece of research has been promoted. See [plumanalytics.com/learn/about-metrics/capture-metrics/](http://plumanalytics.com/learn/about-metrics/capture-metrics/)

\*"Document" in the definitions refers to primary document types such as journal articles, books and conference papers.

1. Metrics selected will depend on the funders' interests and project strengths.
2. Plume, A. & Kamalski, J. (March 2014). "Article downloads: An alternative indicator of national research impact and cross-sector knowledge exchange," *Research Trends*, [www.researchtrends.com/issue-36-march-2014/article-downloads/](http://www.researchtrends.com/issue-36-march-2014/article-downloads/)
3. [papers.ssrn.com/sol3/papers.cfm?abstract\\_id=2344585](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2344585)
4. See a good explanation at [www.harzing.com/pop\\_hindex.htm](http://www.harzing.com/pop_hindex.htm)

# How should the array of metrics be used?

1. **Define the question clearly**, so that you can
2. **Select appropriate metrics** for the particular situation, and
3. **Calculate metrics** for the entities you are investigating, and
4. **For suitable peers** so you can benchmark performance

# Download Multiple PDFs

TITLE-ABS-KEY ("Particle Interactions")

Edit Save Set alert Set feed

Search within results...

Refine results

Limit to Exclude

Access type

Year

☐ 2020 (355)  
☐ 2019 (792)  
☐ 2018 (843) >  
☐ 2017 (791) >  
☐ 2016 (692) >

View more

Author name

Documents Secondary documents Patents

View Mendeley Data (435)

Analyze search results

Show all abstracts Sort on: Cited by (highest)

☐ All Save to Mendeley Download View citation overview View cited by Save to list

Document title

Authors

Year

Source

Cited by

**Batch Download  
(up to 50 documents per download)**

2003 Nuclear Instruments and  
Methods in Physics Research,  
Section A: Accelerators,  
Spectrometers, Detectors and  
Associated Equipment  
506(3), pp. 250-303 13125

View abstract Related documents

☒ 2 Inflationary universe: A possible solution to the horizon Guth, A.H. 1981 Physical Review D  
23(2), pp. 347-356 6533  
*Open Access*

# Setting up Search Alerts

TITLE-ABS-KEY ("Particle Interactions")

Edit Save **Set alert** Set feed

Search within results...

Refine results

Limit to Exclude

Access type ⓘ

Year

☐ 2020  
☐ 2019  
☐ 2018  
☐ 2017  
☐ 2016

View more

Author name

**Set alert**

**E-mail search alert**

If the email address you input belongs to another individual, ensure you have their permission to sign them up for this alert. Your email address will be included on subsequent email alerts.

Search terms  
TITLE-ABS-KEY ("Particle Interactions") [Edit](#)

\* Required fields

Name of alert \*  
"particle interactions"

Email address(es) \*  
ylling61@yahoo.com

E.g., j.smith@mail.com, p.smith@mail.com  
Separate multiple email addresses by a semicolon, comma, space or

Documents Patents View Mendeley Data (435)

Show all abstracts Sort on: Cited by (highest)

Download View citation overview View cited by Save to list

	Authors	Year	Source	Cited by
olkkit	Agostinelli, S., Allison, J., Amako, K., (...), Yoshida, H., Zschiesche, D.	2003	Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment 506(3), pp. 250-303	13125
documents				
ossible solution to the horizon	Guth, A.H.			6533

## Set Search Alert

Set Alert - Search Alert is saved search that you can schedule to run at regular (daily/ weekly/ bi-weekly/ monthly) intervals. Search Results will be sent to your mailbox

# Analyze Results

## Analyze search results

[Back to results](#)

[Export](#) [Print](#) [Email](#)

TITLE-ABS-KEY ("Particle Interactions")

15,583 document results

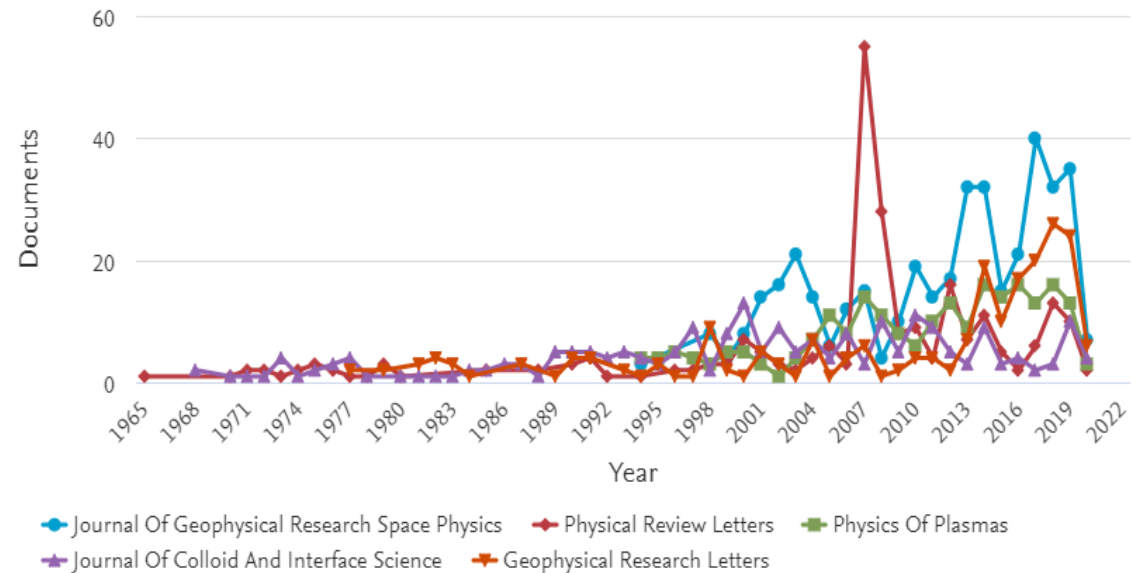
Select year range to analyze: 1936 to 2020 [Analyze](#)

Source ↓	Documents ↑
<input checked="" type="checkbox"/> Journal Of Geophysical Research Space Physics	399
<input checked="" type="checkbox"/> Physical Review Letters	249
<input checked="" type="checkbox"/> Physics Of Plasmas	226
<input checked="" type="checkbox"/> Journal Of Colloid And Interface Science	222
<input checked="" type="checkbox"/> Geophysical Research Letters	216
<input type="checkbox"/> Powder Technology	216
<input type="checkbox"/> Aip Conference Proceedings	201
<input type="checkbox"/> Journal Of Chemical Physics	190

### Documents per year by source

Compare the document counts for up to 10 sources.

[Compare sources and view CiteScore, SJR, and SNIP data](#)







# Author Search

# Author Search



Scopus

Search

Sources

SciVal ↗



YK

Start exploring

**Author Search Function by last name, or ORCID**

Documents

**Authors**

Researcher Discovery

Organizations

Scopus AI

New

Search tips

Search authors using: ☒ Author name ☐ ORCID ☐ Keyword

New

Enter last name \*

Search by author last name, first name, affiliation or ORCID ID

Enter first name

+ Add affiliation

Search

# Author Search

☒ Show exact matches only

Refine results

Limit to

Exclude

Affiliation

☐ Universiti Sains Malaysia (37) >

☐ Universiti Putra Malaysia (32) >

☐ University of Malaya (28) >

☐ Universiti Tunku Abdul Rahman (22) >

☐ Universiti Kebangsaan Malaysia (15) >

View more

City

☐ Kuala Lumpur (65) >

☐ Penang (32) >

☐ Serdang (32) >

☐ Kajang (23) >

☐ Bangi (15) >

View more

Country/territory

☐ Malaysia (281) >

☐ Singapore (10) >

Sort on: Document count (high-low)

☐ All

Show documents

View citation overview

Request to merge authors

Save to author list

	Author	Documents	<i>h</i> -index <sup>①</sup>	Affiliation	City	Country/Territory
<input type="checkbox"/> 1	Lim, Hwee San San, Lim Hwee San, L. H. Lim, D. H.S.	266	14	Universiti Sains Malaysia	Gelugor	Malaysia
	View last title					
<input type="checkbox"/> 2	Lim, Shenyang Lim, S. Y. Lim, Shen Yang	101	24	Universiti Malaya	Kuala Lumpur	Malaysia
	View last title					
<input type="checkbox"/> 3	Lim, Siong Meng Lim, S. M. Meng, Lim Siong Lim, Siong M.	78	14	Universiti Teknologi MARA	Shah Alam	Malaysia
	View last title					
<input type="checkbox"/> 4	Lim, Lee Hong Susan Lim, S. L.H. Lim, L. H.S. Lim, L. H.Susan	77	18	Institute of Biological Sciences	Kuala Lumpur	Malaysia
	View last title					
<input type="checkbox"/> 5	Lim, Steven Lim, S.	72	18	Universiti Tunku Abdul Rahman	Kajang	Malaysia

Author (s): clickable

# Author Search

Lim, Steven

[Universiti Tunku Abdul Rahman, Kajang, Malaysia](#) [Show all author info](#)

[SC 35366710400](#) [ORCID iD https://orcid.org/0000-0001-8699-9772](#)

[Edit profile](#) [Set alert](#) [Save to list](#) [Potential author matches](#) [Export to SciVal](#)

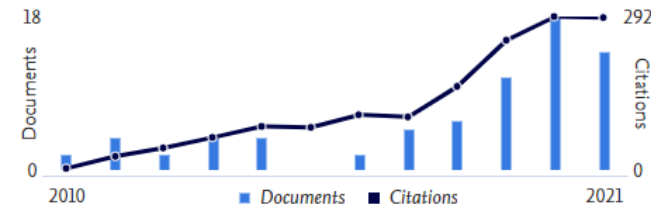
## Metrics overview

72  
Documents by author

1491  
Citations by 1312 documents

18  
*h*-index: [View \*h\*-graph](#)

## Document & citation trends



[Analyze author output](#) [Citation overview](#)

## Most contributed Topics 2016–2020

Esterification; Isethionic Acid; Distillates

[9 documents](#)

Transesterification; Cooking Fats and Oils; Rubber Seed Oil

[8 documents](#)

Saccharification; Delignification; Ethanol Production

[8 documents](#)

[View all Topics](#)

72 Documents

Cited by 1312 Documents

0 Preprints

111 Co-Authors

Topics

0 Awarded grants

[Export all](#) [Save all to list](#)

Sort by: [Date \(newest\)](#)

[View list in search results format](#)

[View references](#)

[Set document alert](#)

Article

Effects of ethanol on the evaporation and burning characteristics of palm-oil based biodiesel droplet

Chow, M.R., Ooi, J.B., Chee, K.M., ...Kong Leong, J.C., Lim, S.

[Full Text PDF](#) [Full Text HTML](#) [Full Text XML](#)

## Author Position

Based on 6 documents for 2013 - 2022

First author • 67%

4  
Documents

7  
Average citations

0.573  
Normalized Average FWCI

Last author • 0%

Co-author • 33%

Corresponding author • 0%

Single author • 0%

[View author position details](#)

1 Author Details

Author detail: name, Scopus ID, affiliation

2 Author Corrections

3 Search Functionality

4 Sorting Option  
(Date or Number of Citations)

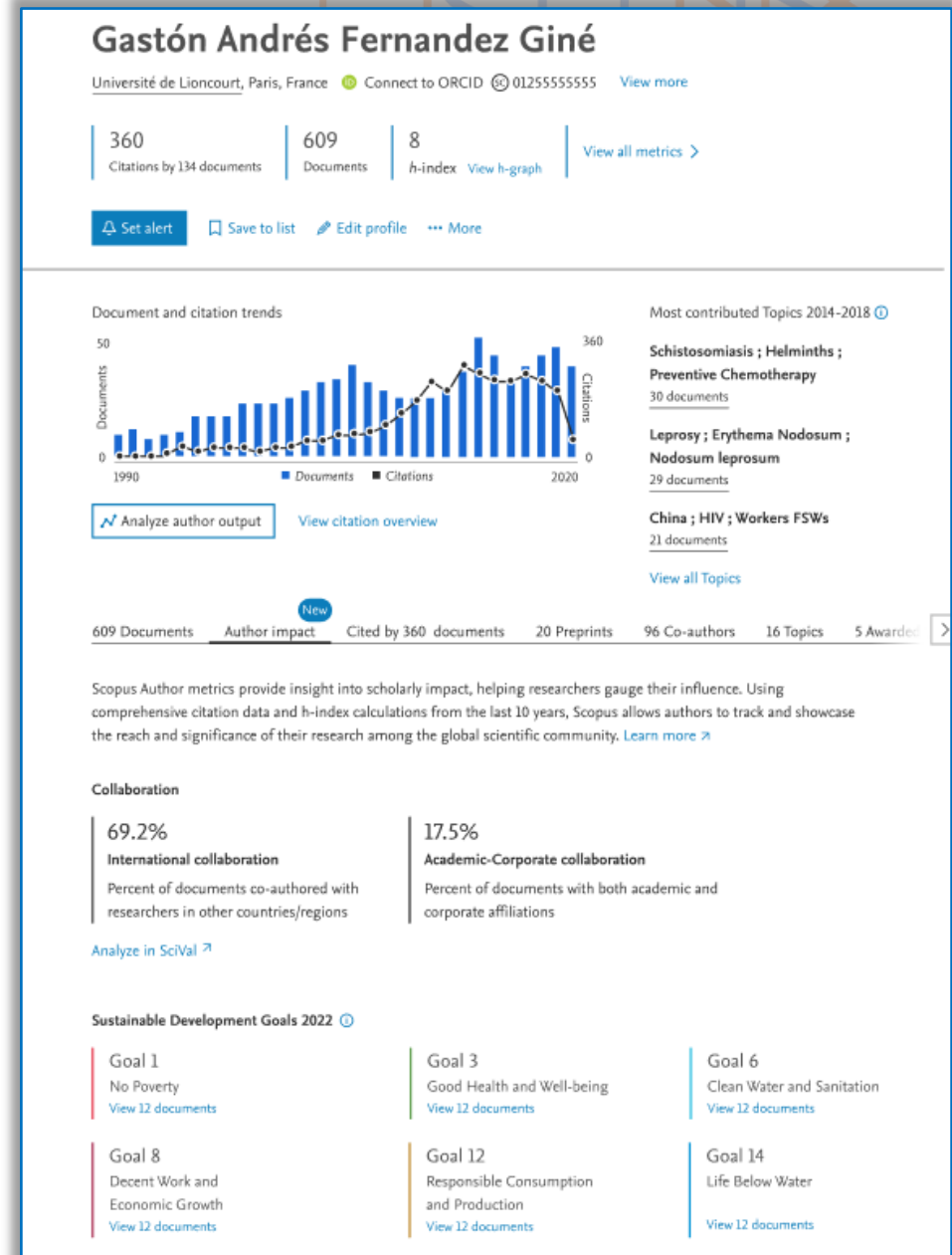
5 Author Publications

6 Author Position

# SDGs on Author Profiles

The United Nations Sustainable Development Goals (SDGs) are specific research areas that are helping to solve real-world problems. They are part of a plan to end poverty, protect the planet, and improve the lives and prospects of everyone by 2030. In late 2024 (early 2025), Elsevier will be adding SDGs on the author pages.

- Appear under the rebranded “Author impact” section on the author profile pages
- Help tracking and showcasing individual researcher contributions to SDGs
- Offer quick access to the documents grouped under each SDG for each author and links to SciVal for further analysis





# H-index

[Back to author details page](#)

[Export](#) [Print](#) [Email](#)

Lim, Steven

Universiti Tunku Abdul Rahman, Kajang, Malaysia  
Author ID:35366710400

Analyze documents published between:  to   
☐ Exclude self citations ☐ Exclude citations from books [Update Graph](#)

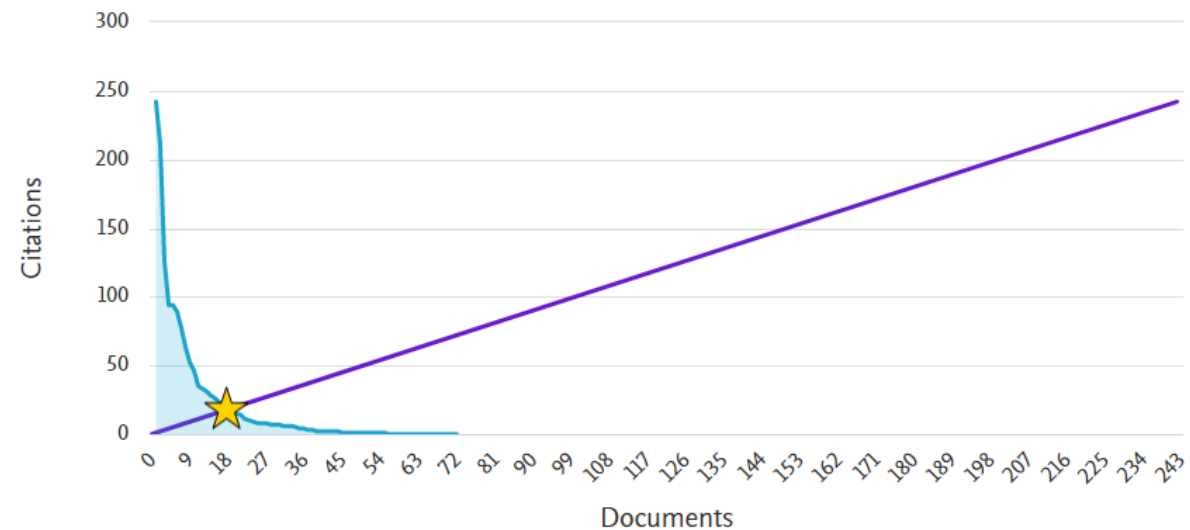
Documents ↓ Citations ↓ Title ↓

14	28	Influences of differ...
15	26	Synthesis, characte...
16	23	A comprehensive r...
17	22	Effects of solid pre-...
18	19	Synthesis of renew...
19	16	Investigation of im...
20	15	Biodiesel synthesis ...
21	14	High biodiesel yiel...
22	11	Progress in utilisati...

## This author's $h$ -index

18

The  $h$ -index is based upon the number of documents and number of citations.



***“The  $h$ -index is the highest number of papers a scientist has that have at least that number of citations.”***

***Nature (2005)***

# Request author detail corrections

Lim, Steven

[Universiti Tunku Abdul Rahman, Kajang, Malaysia](#) [Show all author info](#)

[SC](#) 35366710400 [ORCID](#) <https://orcid.org/0000-0001-8699-9772>

[Edit profile](#) [Set alert](#) [Save to list](#) [Potential author matches](#) [Export to SciVal](#)

What will you be able to do:

- Set the preferred name
- Merge Profiles
- Add and remove documents
- Update Affiliation **Added new feature**

**Proceed to make changes**

Is there a name preference?

Please select the preferred name for the unique author profile.

Lim, Steven

Lim, Steven

Lim, S.

Metrics overview

72

Documents by author

1491

Citations by 1312 documents

18

*h-index*: [View h-graph](#)

# Request author detail corrections (cont.)

Select Profile(s) — Review Documents — Review Affiliation — Confirm and Submit

 Review the following documents and see if they all belong to this author.

Lim, Steven

72 documents

	Document title	Authors ^	Year v	Source ^	Cited by v
<input type="checkbox"/> 1	Effects of ethanol on the evaporation and burning characteristics of palm-oil based biodiesel droplet	Chow, M.R., Ooi, J.B., Chee, K.M., Pun, C.H., Tran, M.-V., Kong Leong, J.C., Lim, S.	2021	Journal of the Energy Institute 98, pp. 35-43	0
<input type="checkbox"/> 2	Facile green synthesis of ZnO nanoparticles using natural-based materials: Properties, mechanism, surface modification and application	Chan, Y.Y., Pang, Y.L., Lim, S., Chong, W.C.	2021	Journal of Environmental Chemical Engineering 9(4)	0
<input type="checkbox"/> 3	Harvesting and evacuation route optimisation model for fresh fruit bunch in the oil palm plantation site	Lim, C.H., Cheah, Z.H., Lee, X.H., How, B.S., Ng, W.P.Q., Ngan, S.L., Lim, S., Lam, H.L.	2021	Journal of Cleaner Production 307	0
<input type="checkbox"/> 4	Optimization and analysis of syngas production from methane and CO2 via Taguchi approach,	Chen, W.-H., Chiu, G.-L., Chyuan Ong, H., Shiung Lam, S., Lim, S., Sik Ok, Y., E.Kwon, E.	2021	Fuel 296	0

Are there any documents missing?

You may search for missing documents to link to this author profile.

[Search missing documents](#)

# Request to merge authors

52 author results

[About Scopus Author Identifier >](#)

Author last name "lim", Author first name "e h"

 [Edit](#)

☒ Show exact matches only

Refine results

[Limit to](#)

[Exclude](#)

Affiliation

☐ National University of Singapore

(5) >

☐ IEEE

(2) >

☐ Korea University, College of Medicine

(2) >

☐ Monash University

(2) >

☐ Nanyang Technological University

(2) >

Sort on: [Document count \(high-low\)](#)

☐ All

[Show documents](#)

[View citation overview](#)

[Request to merge authors](#)

[Save to author list](#)

	Author	Documents	<i>h</i> -index ⓘ	Affiliation	City	Country/Territory
<input checked="" type="checkbox"/> 1	Lim, Eng Hock Lim, Eng H. Lim, E. H.	108	18	Universiti Tunku Abdul Rahman	Kajang	Malaysia
<input type="checkbox"/> 2	Lim, Eng Hock Lim, Eng H. Lim, E. H.					

What will you be able to do:

- Set the preferred name
- Merge Profiles
- Add and remove documents
- Update Affiliation *Added new feature*

[Proceed to make changes](#)

# Merge author profile with Author Feedback Wizard



## Author Feedback Wizard

<https://www.scopus.com/feedback/author/fecyt.uri#/>

Basic Search Author ID Search ORCID Search

Tips ?

Author last name

chong

×

*e.g. Smith*

Author last name

chong

×

*e.g. Smith*

Author last name

horng

×

*e.g. Smith*

Author first name

shin horng

×

*e.g. J.L.*

Author first name

s h

×

—

*e.g. J.L.*

Author first name

chong shin

×

—

*e.g. J.L.*

Optional:

+ Name Variant

+ Affiliation

Search Q

# Author Search

 Select Profile(s) —  Review Documents —  Review Affiliation —  Confirm and Submit

## Refine results





Limit to

### Affiliation

- ☐ Universiti Teknikal Malaysia Melaka (4) >
- ☐ Centre of Excellence of Robotics and Automation (1) >
- ☐ Tokyo Institute of Technology (1) >


### City

- ☐ Malacca (4) >
- ☐ Malacca Town (1) >
- ☐ Tokyo (1) >

	Author ^	Documents ^	<i>h</i> -index	Affiliation ^	City ^	Country/Territory ^
 1	Horng, Chong Shin Chong, S. H. Chong, Shin Horng	64	7	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia
 2	Horng, Chongshin Horng, Chong Shin	1	0	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia
 3	Chong, Shin Horng	1	0	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia
 4	Chong, Shin Horng	1	0	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia

Display:  results per page

1

 Top of page

[Review Documents >](#)



# Author Search



Select Profile(s) — Review Documents — Review Affiliation — Confirm and Submit

**i** Merging the following 4 profiles. Review the following documents and see if they all belong to this author.

Chong, Shin Horng 1 documents   Horng, Chong Shin 64 documents   Horng, Chongshin 1 documents   Chong, Shin Horng 1 documents

	Document title	Authors ^	Year v	Source ^	Cited by v
1	WINDOW SIZE THRESHOLD ANALYSIS FOR BRAINPRINT IDENTIFICATION USING INCREMENTAL K-NEAREST NEIGHBOUR (KNN)	Liew, S.-H., Choo, Y.-H., Low, Y.F., Chong, S.H.	2020	ARPN Journal of Engineering and Applied Sciences 15(17), pp. 1897-1901	0

Are there any documents missing?

You may search for missing documents to link to this author profile.

Search missing documents

< Select Profile

Review Affiliation >

# What is the Challenge? Scholarly Name Ambiguity

Many researchers that too closely resemble one another.



**Dr. Win**



**Dr. Win**



**Dr. Win**

Researchers publish under name variations.



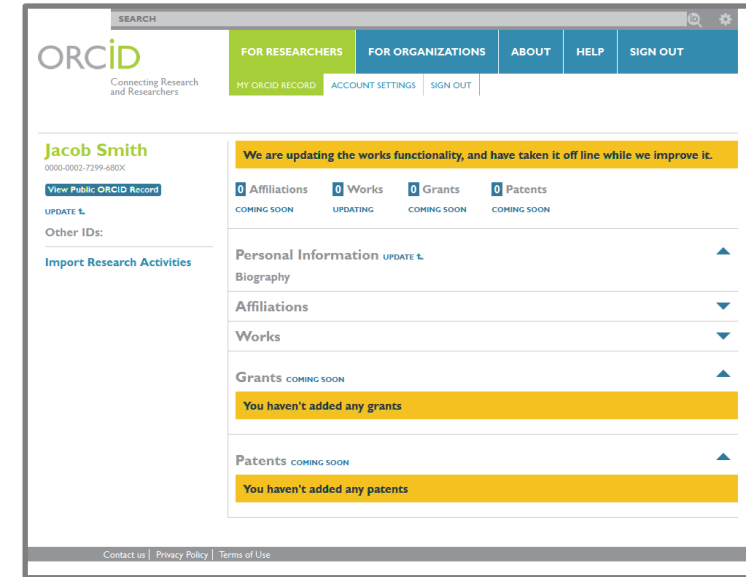
**Dr. Win**

**Dr. H. Win**

**Dr. Handsome Win**

# What is the solution? ORCID!

ORCID, the Original Researcher Contributor ID, provides a **persistent digital identifier** that distinguishes you from every other researcher and, through **integration in key research workflows** such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized.



Dr. Win  
Dr. H. Win  
Dr. Handsome Win



Dr. Handsome Win  
46533489

<https://orcid.org/>

## DISTINGUISH YOURSELF IN THREE EASY STEPS

ORCID provides a persistent digital identifier that distinguishes you from every other researcher and, through integration in key research workflows such as manuscript and grant submission, supports automated linkages between you and your professional activities ensuring that your work is recognized. [Find out more.](#)

1

**REGISTER** Get your unique ORCID identifier [Register now!](#)  
Registration takes 30 seconds.

2

**ADD YOUR  
INFO** Enhance your ORCID record with your  
professional information and link to your other  
identifiers (such as Scopus or ResearcherID or  
LinkedIn).

3

**USE YOUR  
ORCID ID** Include your ORCID identifier on your Webpage,  
when you submit publications, apply for grants, and  
in any research workflow to ensure you get credit  
for your work.

<https://info.orcid.org/researcher-faq/>

# SCOPUS -ORCID Integration via Connect to ORCID



Boo, Nem Yun

[Universiti Tunku Abdul Rahman, Kajang, Malaysia](#) [Show all author info](#)

SC 7004994700 [id](#) [Connect to ORCID](#) ←

Sign in

Email or 16-digit ORCID iD

example@email.com or 0000-0001-2345-6789


Password


SIGN IN


[Forgot your password or ORCID ID?](#)

Don't have an ORCID ID yet? [Register now](#) ←

or

 Access through your institution

 Sign in with Google

 Sign in with Facebook

Authorize

Select profile name

Review publications

Review profile

Send Author ID

Send publications



# Source Browser





# Source Browser

## Sources

## Sources Browser

Title

Find sources

**i** Improved Citescore  
We have updated the CiteScore methodology to ensure a more robust, stable and comprehensive metric which provides an indication of research impact, earlier. The updated methodology will be applied to the calculation of CiteScore, as well as retroactively for all previous CiteScore years (ie. 2018, 2017, 2016...). The previous CiteScore values have been removed and are no longer available.  
[View CiteScore methodology.](#)

### Filter refine list

Apply Clear filters

### Display options

☐ Display only Open Access journals

Counts for 4-year timeframe

☒ No minimum selected

☐ Minimum citations

☐ Minimum documents

Citescore highest quartile

☐ Show only titles in top 10 percent

☐ 1st quartile

☐ 2nd quartile

☐ 3rd quartile

42,180 results

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☐ All

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View metrics for year:

2020

	Source title ↓	CiteScore ↓	Highest percentile ↓	Citations 2017-20 ↓	Documents 2017-20 ↓	% Cited ↓
<input type="checkbox"/> 1	Ca-A Cancer Journal for Clinicians	463.2	99% 1/340 Oncology	50,948	110	92
<input type="checkbox"/> 2	Nature Reviews Materials	115.7	99% 1/292 Materials Chemistry	21,170	183	98
<input type="checkbox"/> 3	Nature Reviews Molecular Cell Biology	99.7	99% 1/382 Molecular Biology	21,027	211	88
<input type="checkbox"/> 4	Chemical Reviews	96.9	99% 1/398 General Chemistrv	90,053	929	96

# Source Browser

## Cell

Scopus coverage years: from 1974 to Present

Publisher: Elsevier

ISSN: 0092-8674 E-ISSN: 1097-4172

Subject area: Biochemistry, Genetics and Molecular Biology: General Biochemistry, Genetics and Molecular Biology

Source type: Journal

[View all documents >](#)

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[Get Permission](#)

CiteScore 2020

63.4



SJR 2020

26.304



SNIP 2020

8.154



[CiteScore](#) [CiteScore rank & trend](#) [Scopus content coverage](#)



### Improved CiteScore methodology

CiteScore 2020 counts the citations received in 2017-2020 to articles, reviews, conference papers, book chapters and data papers published in 2017-2020, and divides this by the number of publications published in 2017-2020. [Learn more >](#)

CiteScore 2020



63.4

$$= \frac{114,416 \text{ Citations 2017 - 2020}}{1,804 \text{ Documents 2017 - 2020}}$$

Calculated on 05 May, 2021

CiteScoreTracker 2021



55.7

$$= \frac{93,379 \text{ Citations to date}}{1,676 \text{ Documents to date}}$$

Last updated on 04 June, 2021 • Updated monthly

### CiteScore rank 2020



Category

Rank

Percentile

Biochemistry, Genetics and Molecular Biology

#1/204

99th

General Biochemistry, Genetics and Molecular Biology

# More on CiteScore

## Ecosystem Services

Scopus coverage years: from 2012 to Present

Publisher: Elsevier

ISSN: 2212-0416

Subject area: [Agricultural and Biological Sciences: Agricultural and Biological Sciences \(miscellaneous\)](#) [Social Sciences: Geography, Planning and Development](#)  
[Environmental Science: Nature and Landscape Conservation](#) [Environmental Science: Ecology](#) [View all](#) [▼](#)

Source type: Journal

[View all documents](#) >

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CiteScore 2021  
**11.7**

SJR 2021  
**1.749**

SNIP 2021  
**1.807**

[CiteScore](#)

[CiteScore rank & trend](#)

[Scopus content coverage](#)

CiteScore [2021](#) [▼](#)

**11.7** =  $\frac{7,696 \text{ Citations 2018 - 2021}}{659 \text{ Documents 2018 - 2021}}$

Calculated on 05 May, 2022

CiteScoreTracker 2022 [ⓘ](#)

**11.0** =  $\frac{6,144 \text{ Citations to date}}{558 \text{ Documents to date}}$

Last updated on 05 October, 2022 • Updated monthly

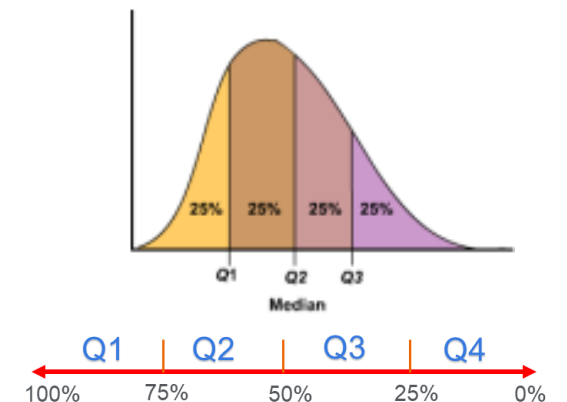
Read CiteScore of selected year or current year. Also see how it is calculated.

### CiteScore rank 2021 [ⓘ](#)

Category	Rank	Percentile
Agricultural and Biological Sciences	#2/119	98th
Agricultural and Biological Sciences (miscellaneous)		
Social Sciences		
Geography, Planning and Development	#11/747	98th

Ecosystem Services is in Agricultural and Biological Sciences and also Social Sciences.

- Can you read its rank, percentile and quartile?



# More on CiteScore

## Ecosystem Services

Scopus coverage years: from 2012 to Present

Publisher: Elsevier

ISSN: 2212-0416

Subject area: [Agricultural and Biological Sciences: Agricultural and Biological Sciences \(miscellaneous\)](#) [Social Sciences: Geography, Planning and Development](#)  
[Environmental Science: Nature and Landscape Conservation](#) [Environmental Science: Ecology](#) [View all](#) ▼

Source type: Journal

[View all documents](#) >

[Set document alert](#)

[Save to source list](#) [Entitled Full Text](#)

Select research area to see the rank of this journal comparing with others in the list.

CiteScore 2021  
**11.7**

SJR 2021  
**1.749**

SNIP 2021  
**1.807**

[CiteScore](#) [CiteScore rank & trend](#) [Scopus content coverage](#)

See 5 years trends of this journal

[Export content for category](#)

CiteScore rank 2021

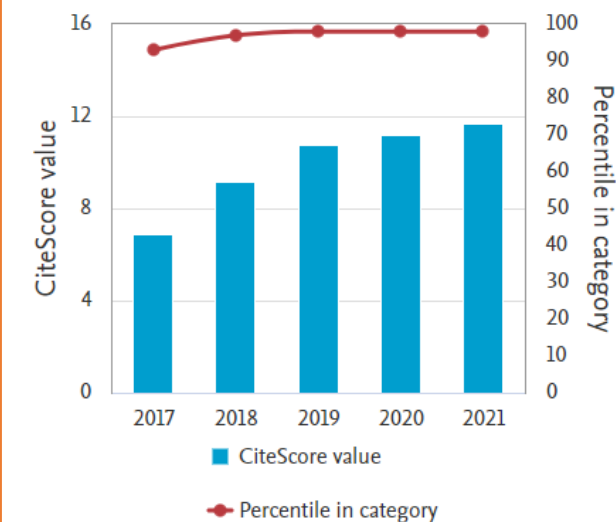
In category: [Agricultural and Biological Sci...](#)

☆ #2  
119 Ecosystem Services 11.7 98th percentile

Rank	Source title	CiteScore 2021	Percentile
#1	Studies in Mycology	33.4	99th percentile
☆ #2	Ecosystem Services	11.7	98th percentile
#3	IMA Fungus	8.3	97th percentile
#4	Astrobiology	8.2	97th percentile
#5	Mammal Review	8.2	96th percentile

Out of all 119 journals in **Agricultural and Biological Sciences**, Ecosystem Services is **2<sup>nd</sup> rank**. Therefore, it has **percentile at 98<sup>th</sup> as Q1 Journal**.

## CiteScore trend



# Scopus Source List



Scopus

Search Sources Lists SciVal Quick Link Test



## Sources

Title



Enter title

Find sources



### Improved Citescore

We have updated the CiteScore methodology to ensure a more robust, stable and comprehensive metric which provides an indication of research impact, earlier. The updated methodology will be applied to the calculation of CiteScore, as well as retroactively for all previous CiteScore years (ie. 2018, 2017, 2016...). The previous CiteScore values have been removed and are no longer available.

[View CiteScore methodology.](#)

## Scopus Source List



Scopus Source Browse and Source List are refreshed and updated three times per year. Sources are added to Scopus Source Browse and Source List after a threshold of 15 papers has been reached.

### Filter refine list

Apply

Clear filters

### Display options

☐ Display only Open Access journals

Counts for 4-year timeframe

☒ No minimum selected

☐ Minimum citations

☐ Minimum documents

Citescore highest quartile

☐ Show only titles in top 10 percent

☐ 1st quartile

42,180 results

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View metrics for year: 2020

	Source title ↓	CiteScore ↓	Highest percentile ↓	Citations 2017-20 ↓	Documents 2017-20 ↓	% Cited ↓
<input type="checkbox"/> 1	Ca-A Cancer Journal for Clinicians <a href="#">Cate</a> <a href="#">Cate</a>	463.2	99% 1/340 Oncology	50,948	110	92
<input type="checkbox"/> 2	Nature Reviews Materials <a href="#">Cate</a> <a href="#">Cate</a> <a href="#">BIBSYS</a>	115.7	99% 1/292 Materials Chemistry	21,170	183	98
<input type="checkbox"/> 3	Nature Reviews Molecular Cell Biology <a href="#">Cate</a> <a href="#">Cate</a> <a href="#">BIBSYS</a>	99.7	99% 1/382 Molecular Biology	21,027	211	88

# Check for Coverage of SCOPUS



Scopus

[Search](#) [Sources](#) [Lists](#) [SciVal](#) [Quick Link Test](#)

## Source details

[Feedback](#) [Compare sources](#)

### Biomedicine and Pharmacotherapy

Formerly known as: [Biomedicine Express](#)

[Open Access](#)

Formerly known as: [Biomedicine](#)

Scopus coverage years: from 1982 to Present

Publisher: Elsevier

ISSN: 0753-3322

Subject area: [Pharmacology, Toxicology and Pharmaceutics: Pharmacology](#)

Source type: Journal

[View all documents](#)

[Set document alert](#)

[Save to source list](#)

[Source Homepage](#)

[Cite](#) [Cite](#)

[BIBSYS](#)

CiteScore 2020

9.3



SJR 2020

1.323



SNIP 2020

1.443



[CiteScore](#) [CiteScore rank & trend](#) [Scopus content coverage](#)



#### Improved CiteScore methodology

CiteScore 2020 counts the citations received in 2017-2020 to articles, reviews, conference papers, book chapters and data papers published in 2017-2020, and divides this by the number of publications published in 2017-2020. [Learn more](#)

CiteScore [2020](#)



9.3 =  $\frac{57,137 \text{ Citations 2017 - 2020}}{6,141 \text{ Documents 2017 - 2020}}$

CiteScoreTracker 2021



9.5 =  $\frac{52,050 \text{ Citations to date}}{5,489 \text{ Documents to date}}$



# Case of Discontinued Journal 1



Scopus

[Search](#) [Sources](#) [Lists](#) [SciVal](#) [Quick Link Test](#)

## Source details

[Feedback](#) [Compare sources](#)

### International Journal of Civil Engineering and Technology

Scopus coverage years: from 2016 to 2019

(coverage discontinued in Scopus)

Publisher: IAEME Publication

ISSN: 0976-6308 E-ISSN: 0976-6316

Subject area: [Engineering: Building and Construction](#) [Engineering: Civil and Structural Engineering](#) [Computer Science: Computer Networks and Communications](#)  
[Engineering: Control and Systems Engineering](#)

Source type: Journal

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[Set document alert](#)

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[Source Homepage](#)

[Cite](#) [Cite](#)

[BIBSYS](#)

CiteScore 2017

1.4



SJR 2019

0.285



SNIP 2019

0.437



[CiteScore](#)

[CiteScore rank & trend](#)

[Scopus content coverage](#)



#### Improved CiteScore methodology

CiteScore 2017 counts the citations received in 2014–2017 to articles, reviews, conference papers, book chapters and data papers published in 2014–2017, and divides this by the number of publications published in 2014–2017. [Learn more](#)



CiteScore [2017](#)



1.4 =  $\frac{2,682 \text{ Citations 2014 - 2017}}{1,977 \text{ Documents 2014 - 2017}}$

Calculated on 01 May, 2018



= —

CiteScore rank 2017 [i](#)



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# Researcher Discovery



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Keyword

Enter keywords  
ethanol dehydrogenation



Filter

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Refine by

Matching documents from

- ☐ This year
- ☐ Last 2 years
- ☐ Last 3 years

Country

Type country name

- ☐ Thailand
- ☐ Italy
- ☐ United States
- ☐ China
- ☐ Russian Federation

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Organizations

Type organization name

- ☐ Chulalongkorn University

Author information	Number of matching documents	Total citations	Total documents	h-index
<b>Jongsomjit, Bunjerd</b> Chulalongkorn University, <i>Thailand</i> <a href="#">Preview profile</a>	17	2177	203	25
<b>Praserthdam, Piyasan</b> Chulalongkorn University, <i>Thailand</i> <a href="#">Preview profile</a>	15	7188	502	45
<b>Busca, Guido</b> Università degli Studi di Genova, <i>Italy</i> <a href="#">Preview profile</a>	12	24812	531	98
<b>Garbarino, Gabriella</b> Università degli Studi di Genova, <i>Italy</i> <a href="#">Preview profile</a>	12	1624	73	28
<b>Riani, Paola</b> UdR Genova, <i>Italy</i> <a href="#">Preview profile</a>	10	2272	100	31
<b>Wang, Lichang</b>	9	5278	151	39

Related  
researchers

# Researcher Discovery



Researcher detail

Author profile preview



Jongsomjit, Bunjerd

Chulalongkorn University, *Thailand*

Experience in research: **22+ years**

Year of latest matching document: **2023**

[View full profile](#)

## Most contributed topics

2018–2022

Bioethanol; Dehydration; Propylene

Acetaldehyde; Catalyst; Dehydrogenation

Ziegler Catalyst; Ethylene; Magnesium Chlorides

Researcher detail

## Latest publications

Matching documents All documents

Investigation on deactivation of Cu-Cr catalyst for direct ethanol dehydrogenation to ethyl acetate, acetaldehyde, and hydrogen

Preedavijitkul, S., Autthanit, C., ...Jongsomjit, B.

*Journal of the Taiwan Institute of Chemical Engineers*, 2023

Synthesis and characteristics of mesoporous carbon catalysts via sulfonation process from surfactant residue and their catalytic properties toward gas-phase ethanol dehydrogenation

Klinthongchai, Y., Praserttham, P., Jongsomjit, B.

*Journal of the Taiwan Institute of Chemical Engineers*, 2022

Email for contacting

Corresponding author e-mail address\*

[bunjerd.j@chula.ac.th](mailto:bunjerd.j@chula.ac.th)

\* Sourced from the most recent document in Scopus that the researcher was the corresponding author for.

Publications

Matching researchers for:

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Enter keywords

ethanol dehydrogenation



Results based on matching documents since 2017

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Country

Type country name

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Organizations

Type organization name

- ☐ Chulalongkorn University

Author information

Number of matching documents

Total citations

Total documents

h-index

Jongsomjit, Bunjerd

Chulalongkorn University, *Thailand*

[Preview profile](#)

17

2177

203

25

Praserthdam, Piyasan

Chulalongkorn University, *Thailand*

[Preview profile](#)

15

7188

502

45

Busca, Guido

Università degli Studi di Genova, *Italy*

[Preview profile](#)

12

24812

531

98

Garbarino, Gabriella

Università degli Studi di Genova, *Italy*

[Preview profile](#)

12

1624

73

28

Riani, Paola

UdR Genova, *Italy*

[Preview profile](#)

10

2272

100

31

Wang, Lichang

9

5278

151

39



# Affiliation Searching



# Affiliation Search



Scopus

Search

Sources

SciVal ↗



YK

Start exploring

**Affiliation Search Function**

Documents Authors Researcher Discovery <sup>New</sup> Organizations

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Search within  
Article title, Abstract, Keywords



Search documents \*

+ Add search field Add date range [Advanced document search >](#)

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# Scopus Affiliation Profile

## Imperial College London

South Kensington Campus,, London, United Kingdom © 60015150

323,204

Documents ⓘ

41,453

Authors

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Documents Structure Collaborators Sustainable Development Goals 2023

New

323,204 Documents

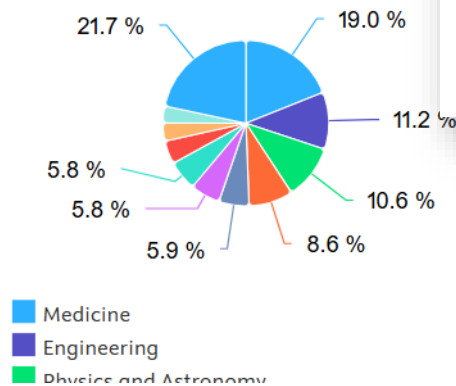
View by Subject area Source

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Sort by Document count (high-low) ▾

Subject area	Documents
Medicine	86,595
Engineering	51,027
Physics and Astronomy	48,648
Biochemistry, Genetics and Molecular Biology	39,426

### Subject trends



## Documents by Source

Documents Structure Collaborators Sustainable Development Goals 2023

New

New: See at one glance Sustainable Development Goals mapped to this organisation

Sustainable Development Goals (SDGs) are specific research areas that are helping to solve real-world problems. Elsevier data science teams have built extensive keyword queries, supplemented with machine learning, to map documents to SDGs with very high precision. Times Higher Education (THE) is using Elsevier SDG data mapping as part of its Impact Rankings. [More about SDGs](#)

### SDG contributions

Goal 1: No poverty	601 documents	Goal 10: Reduced inequalities	1,780 documents
Goal 2: Zero hunger	1,890 documents	Goal 11: Sustainable cities and communities	3,280 documents
Goal 3: Good health and well-being	70,854 documents	Goal 12: Responsible consumption and product	1,864 documents

## Collaborating Affiliations

150 Collaborating organizations

Download all

Sort by Document count (high-low) ▾

Organization name	Documents
National Heart and Lung Institute	16,184
University of Oxford	12,798
University College London	12,771
University of Cambridge	9,354
Hammersmith Hospital	8,557

# View Document Affiliations Results

276,139 document results

AF-ID ( "Massachusetts Institute of Technology" 60022195 )

 Edit  Save  Set alert

Search within results...



Refine results

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Open Access

- ☐ All Open Access (117,863) >
- ☐ Gold (19,193) >
- ☐ Hybrid Gold (11,051) >
- ☐ Bronze (36,165) >
- ☐ Green (99,728) >


[Learn more](#)

Year

- ☐ 2024 (439) >
- ☐ 2023 (9,519) >
- ☐ 2022 (10,440) >
- ☐ 2021 (10,464) >
- ☐ 2020 (10,047) >

[View more](#)

Author name

 Analyze search results

Hide all abstracts Sort on: Date (newest)

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	Document title	Authors	Year	Source	Cited by
<input type="checkbox"/> 1	Single-sided magnetic resonance-based sensor for point-of-care evaluation of muscle <i>Open Access</i>	Sherman, S.E., Zammit, A.S., Heo, W.-S., Rosen, M.S., Cima, M.J.	2024	Nature Communications 15(1),440	0

Hide abstract ^ [1Cite](#) [View at Publisher](#) [Related documents](#)

Magnetic resonance imaging is a widespread clinical tool for the detection of soft tissue morphology and pathology. However, the clinical deployment of magnetic resonance imaging scanners is ultimately limited by size, cost, and space constraints. Here, we discuss the design and performance of a low-field single-sided magnetic resonance sensor intended for point-of-care evaluation of skeletal muscle in vivo. The 11 kg sensor has a penetration depth of >8 mm, which allows for an accurate analysis of muscle tissue and can avoid signal from more proximal layers, including subcutaneous adipose tissue. Low operational power and shielding requirements are achieved through the design of a permanent magnet array and surface transceiver coil. The sensor can acquire high signal-to-noise measurements in minutes, making it practical as a point-of-care tool for many quantitative diagnostic measurements, including T2 relaxometry. In this work, we present the in vitro and human in vivo performance of the device for muscle tissue evaluation.

<input type="checkbox"/> 2	Towards provably efficient quantum algorithms for large-scale machine-learning models <i>Open Access</i>	Liu, J., Liu, M., Liu, J.-P., (...), Eisert, J., Jiang, L.	2024	Nature Communications 15(1),434	0
----------------------------	---	--	------	------------------------------------	---

Hide abstract ^ [1Cite](#) [View at Publisher](#) [Related documents](#)

# Analyze Search Results

[Back to results](#)

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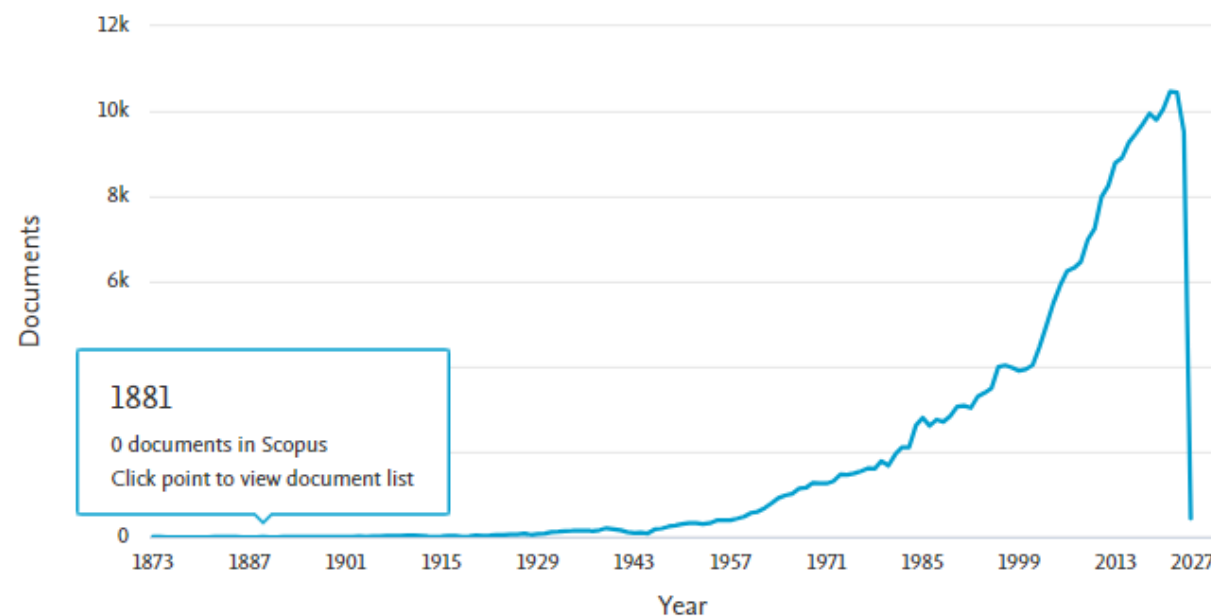
AF-ID ( "Massachusetts Institute of Technology" 60022195 )

276,139 document results

Select year range to analyze: 1873 to 2024 [Analyze](#)

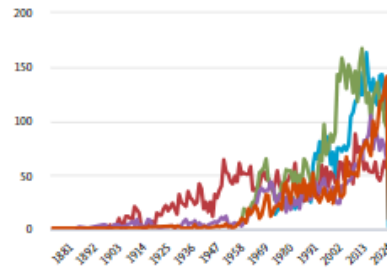
Year ↓	Documents ↑
2024	439
2023	9519
2022	10440
2021	10464
2020	10047
2019	9797
2018	9945
2017	9691
2016	9473
2015	9265

Documents by year

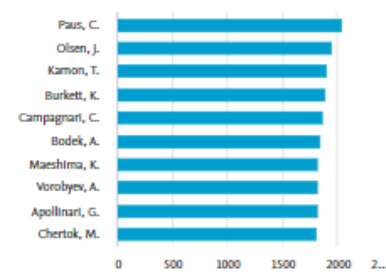


# Search analysis

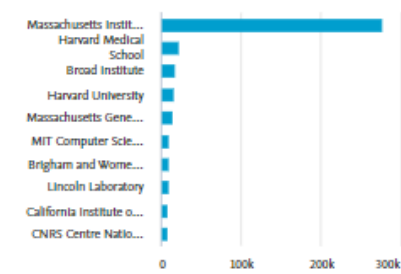
Documents per year by source



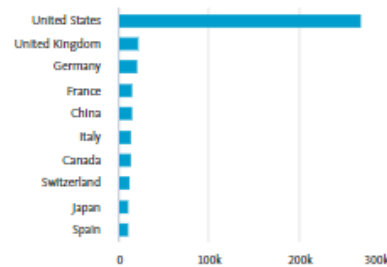
Documents by author



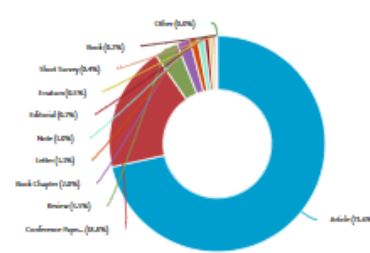
Documents by affiliation



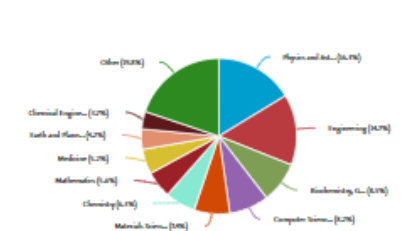
Documents by country/territory



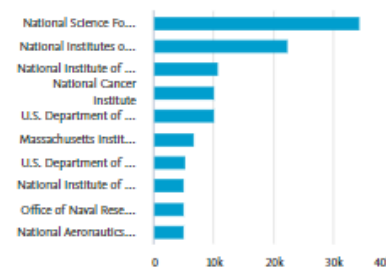
Documents by type



Documents by subject area



Documents by funding sponsor



# Scopus Author Profile Affiliation



43,779 affiliated authors

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[< Back](#)

Author affiliation matches for: "Massachusetts Institute of Technology" ID 60022195

## Refine results

[Limit to](#) [Exclude](#)

### Affiliation

- ☐ Massachusetts Institute of Technology (43,779) >
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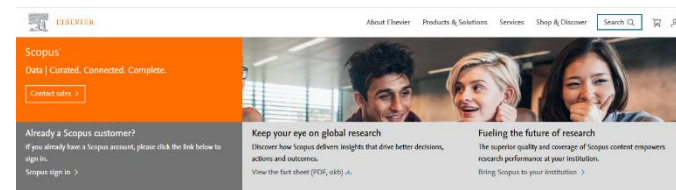
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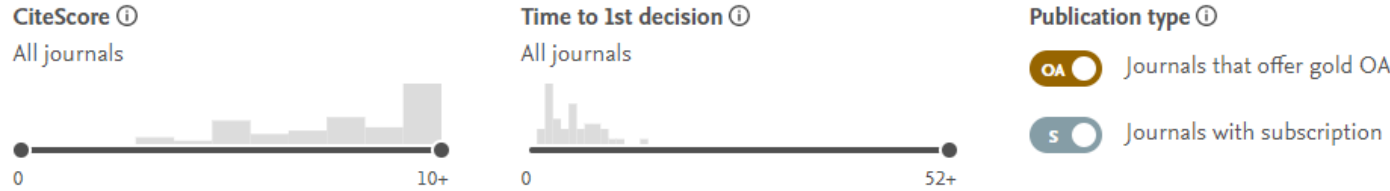
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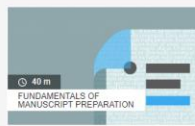


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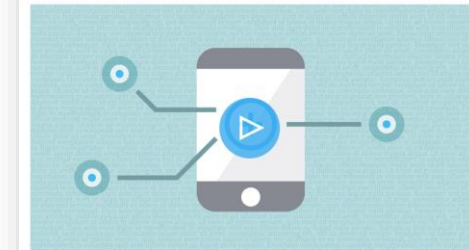
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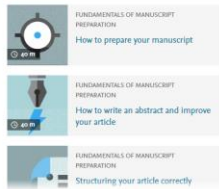
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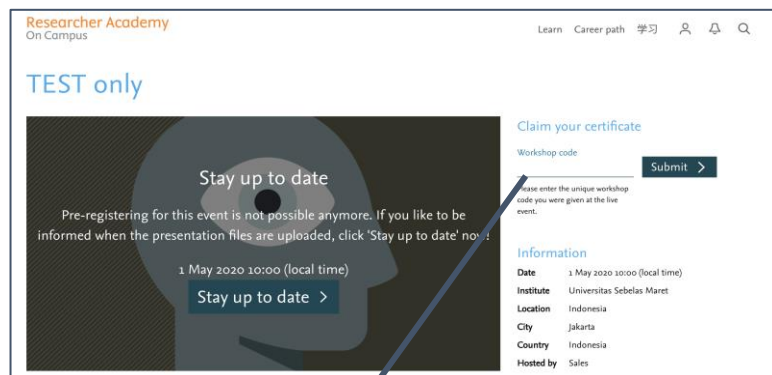
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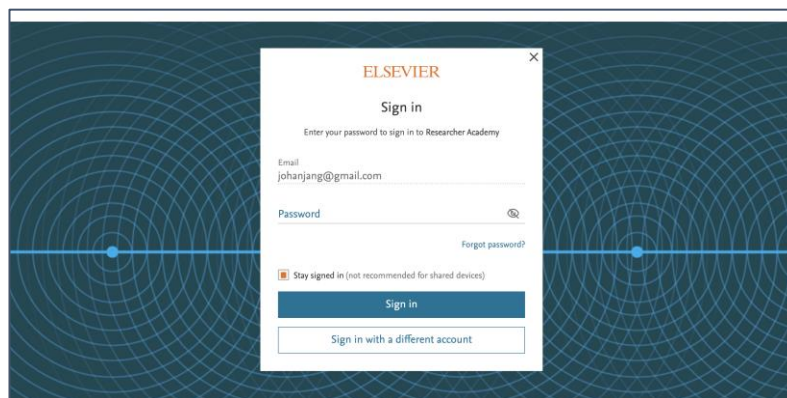
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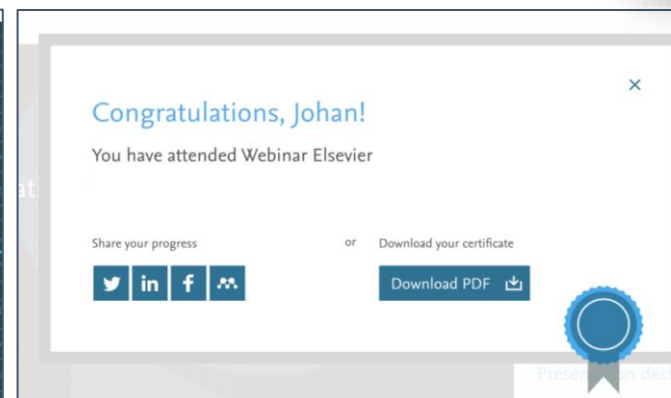
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