



Introduction to Scopus and ScopusAI for research

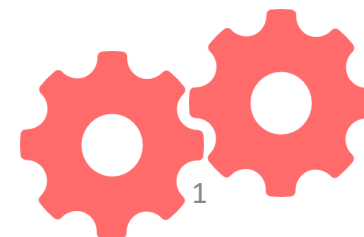
Data | Curated. Connected. Complete

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Elsevier South East Asia

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Outline



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Introducing to Scopus

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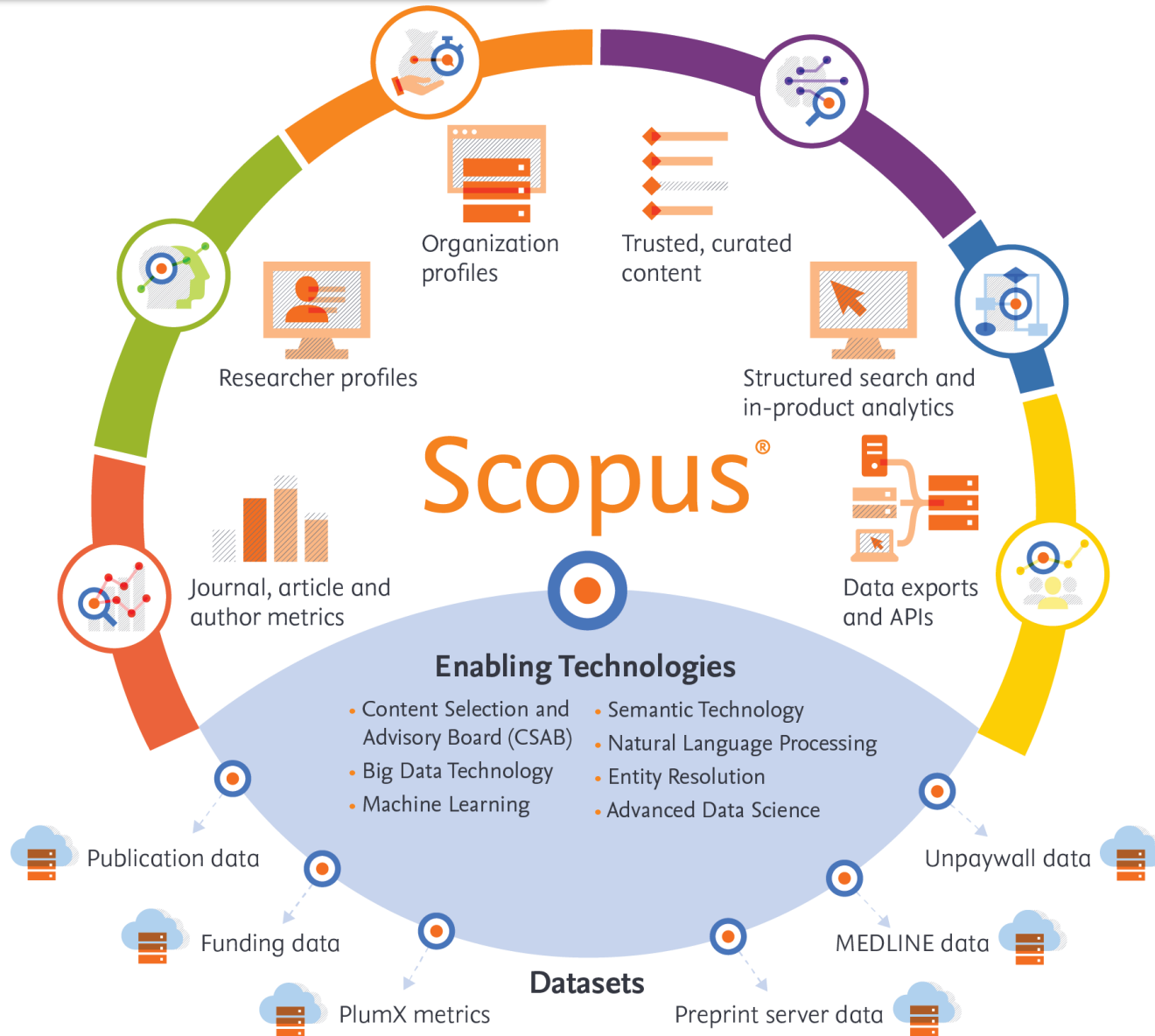


Introducing to Scopus

Introducing to Scopus



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



Featuring

- 85M+ items
- 94K+ organization profiles
- 17M+ researcher profiles
- 3.5M+ awards and 450+ funders

From

- 27.1K serials, 140K conferences, 253K books, 5,408 active Gold OA journals, from 7K+ publishers in 105 countries
- 18.40M OA documents
- 1.10M preprints
- "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

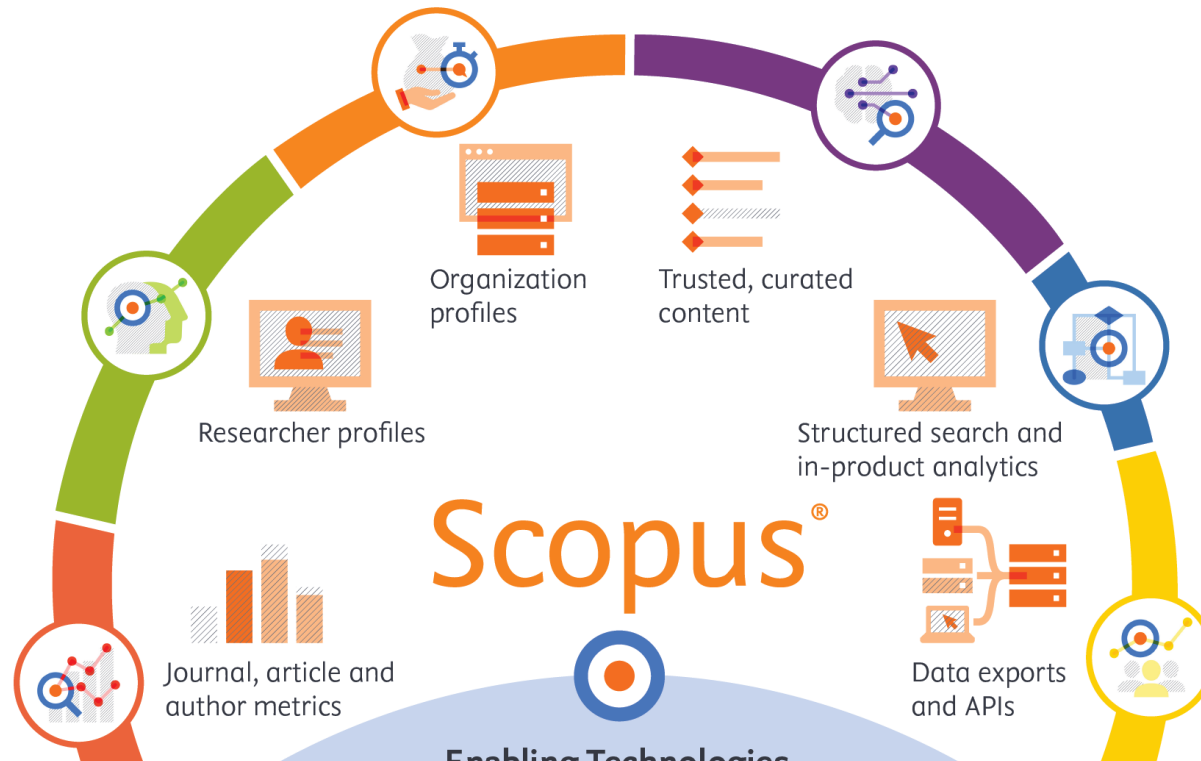
Organization profiles to surface expertise and inform analyses

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

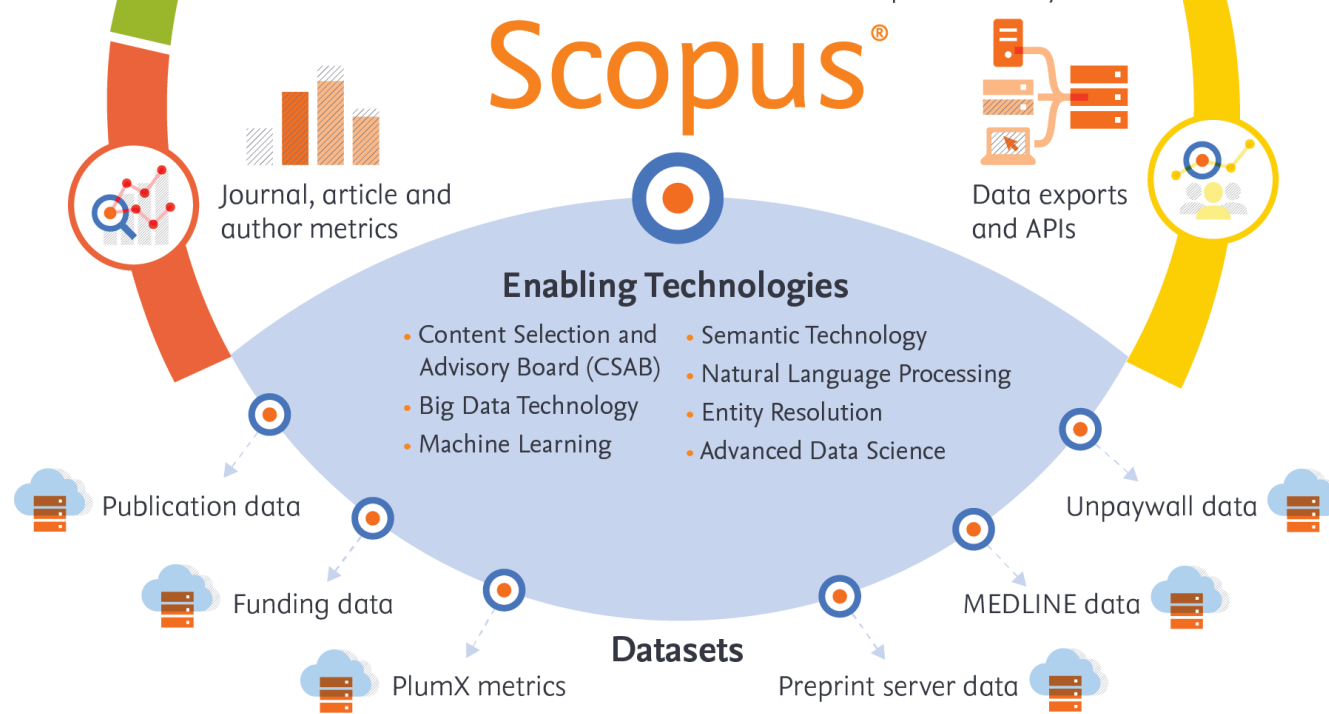
Continual improvement speed and ease of use, signals around research, and discovery and analysis

Intuitive, powerful search, trusted content and comprehensive content

...Insights to help you progress your research



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



Journal, article and
author metrics

Data exports
and APIs

...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

Progress your research

Intuitive, powerful search, with trusted and comprehensive content

Insights to help you progress your research with confidence

Evaluate your research

Powerful linked data, disambiguated, connected to key research entities

Insights for comprehensive evaluations you can trust

Reflect your research

The most accurate reflections of your research entities, structured in linked, flexible data

Built to scale, integrate and hone to meet your most stringent demands and highest value decisions



Teaching next generation researchers



Supporting career growth & development



Signaling researcher impact



Signaling organizational impact



Inform global rankings calculations



Inform national and regional assessments



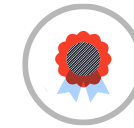
Glean insights from custom adaptations and analyses



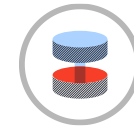
Helping research thrive



Supporting the scholarly record



Inform analyses of global and regional research trends



Power repositories and RIMS with profile data

Key Challenges

Stakeholders



Librarians



Students



Faculty & researchers



Editors



Librarians



Heads of department



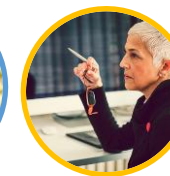
Faculty & researchers



Research Services



Librarians



Heads of department



Faculty & researchers

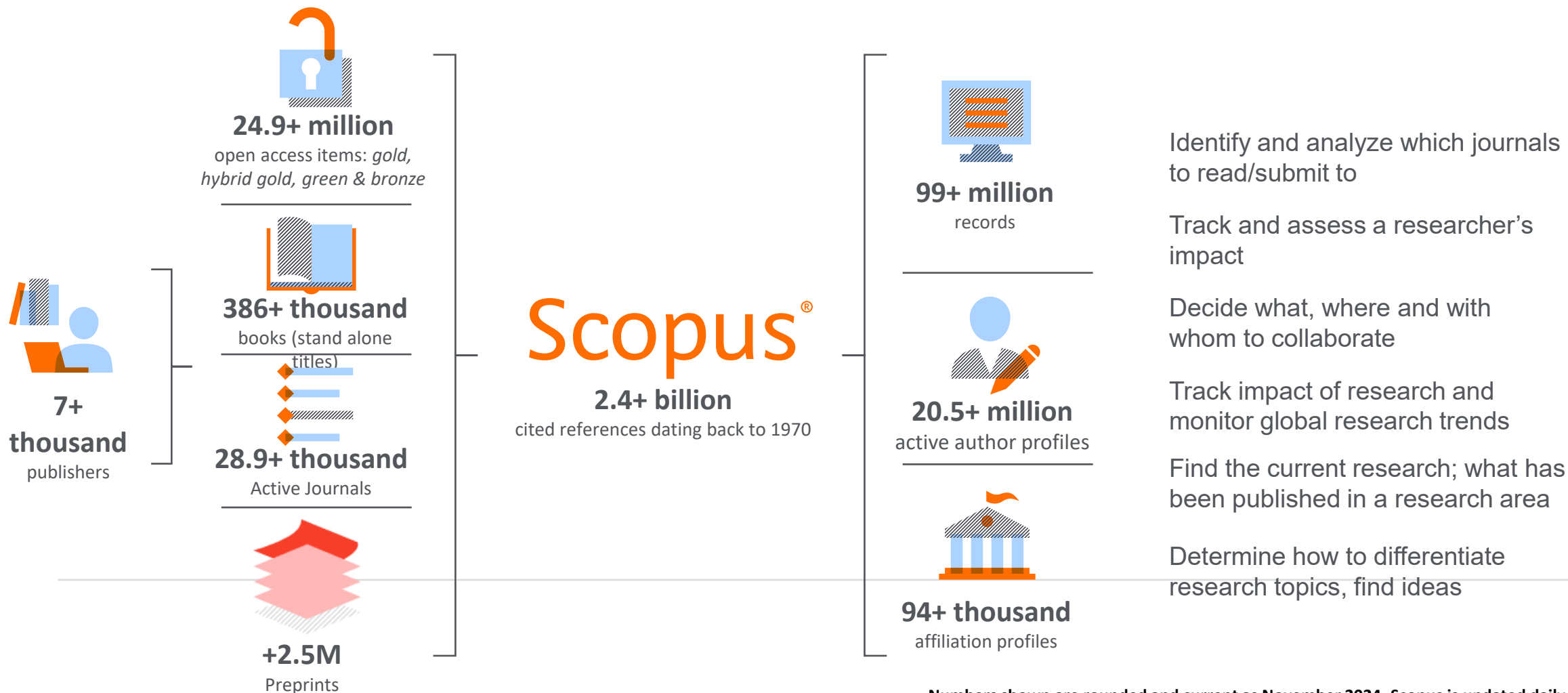


Research Services

Introducing to Scopus

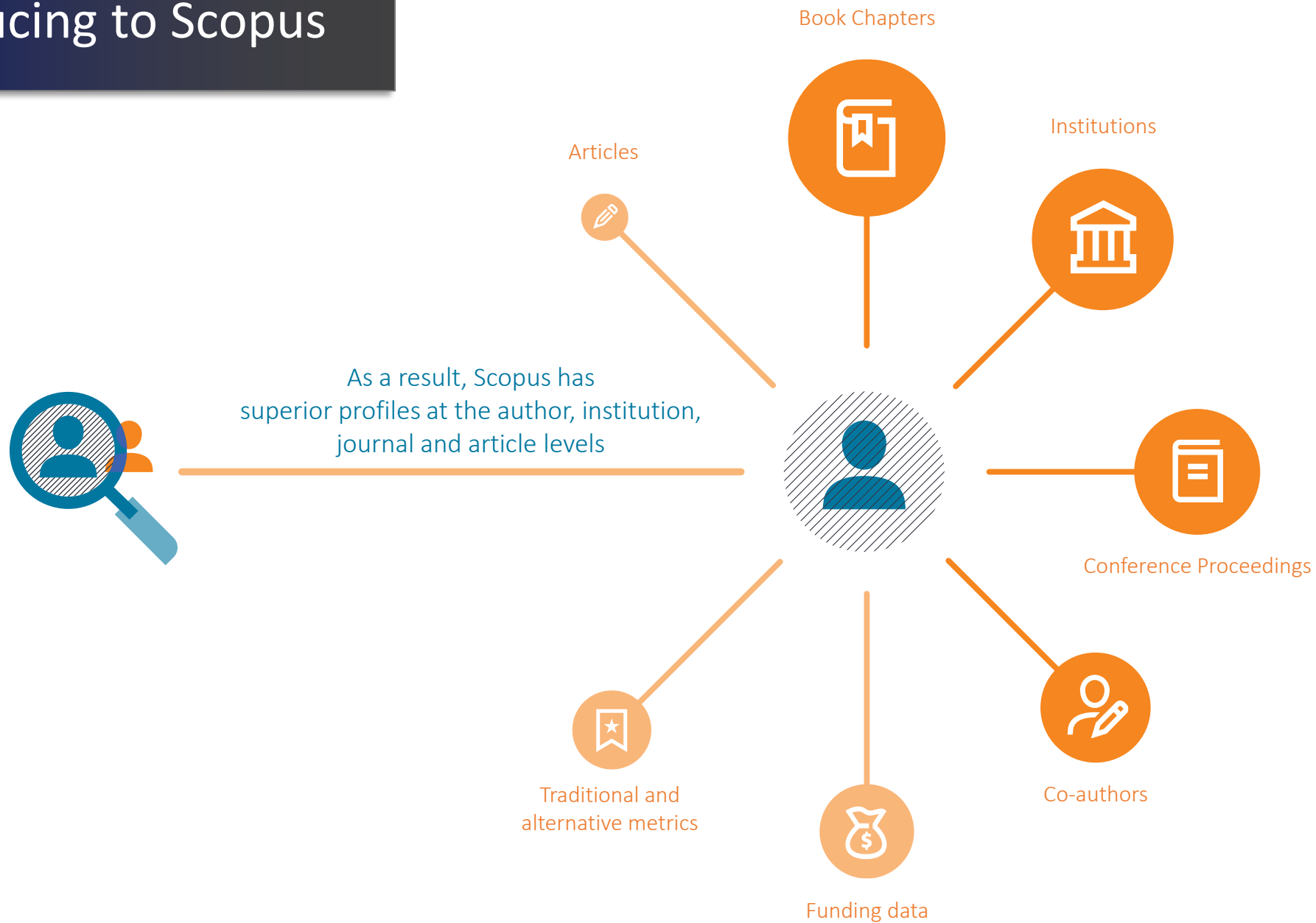


Curated, enriched and connected data that surfaces signals about research that are intuitive to access and understand



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

Introducing to Scopus



Global Representation means global discovery

Comprehensive coverage

Globally sourced

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

Format and historically inclusive

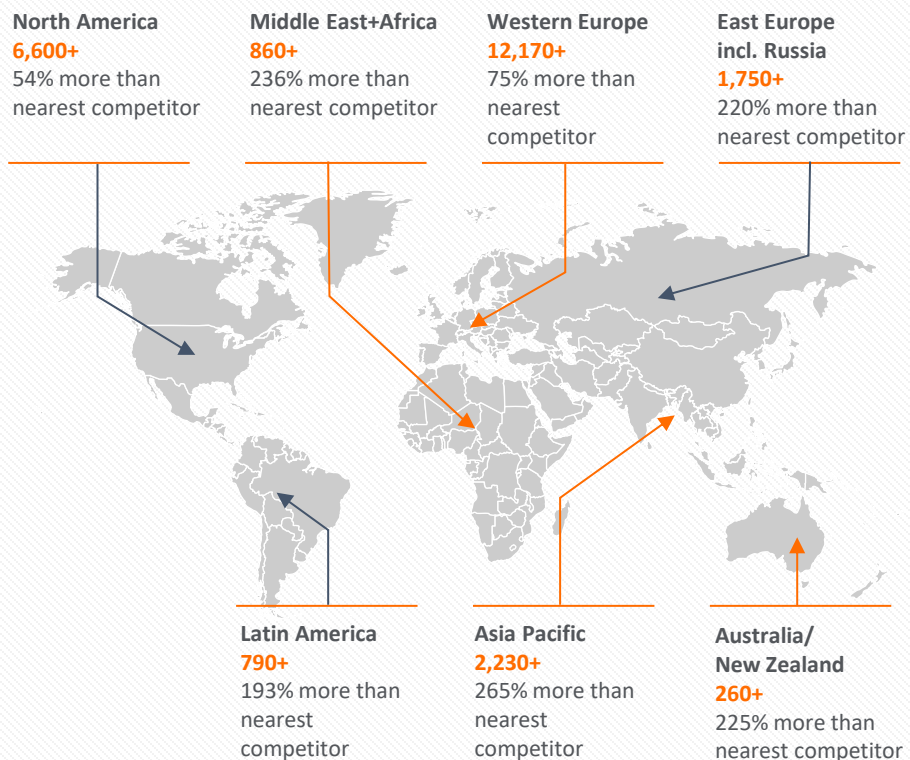
- **50%–230%** more global content
- Historical coverage **back to 1788**
- **18.4 M open access documents**
- Multiple regional content types
(**journals, conferences, books, book series**)

Current

- **Updated daily**

Global Representation

(number of titles)





What content is in Scopus?

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

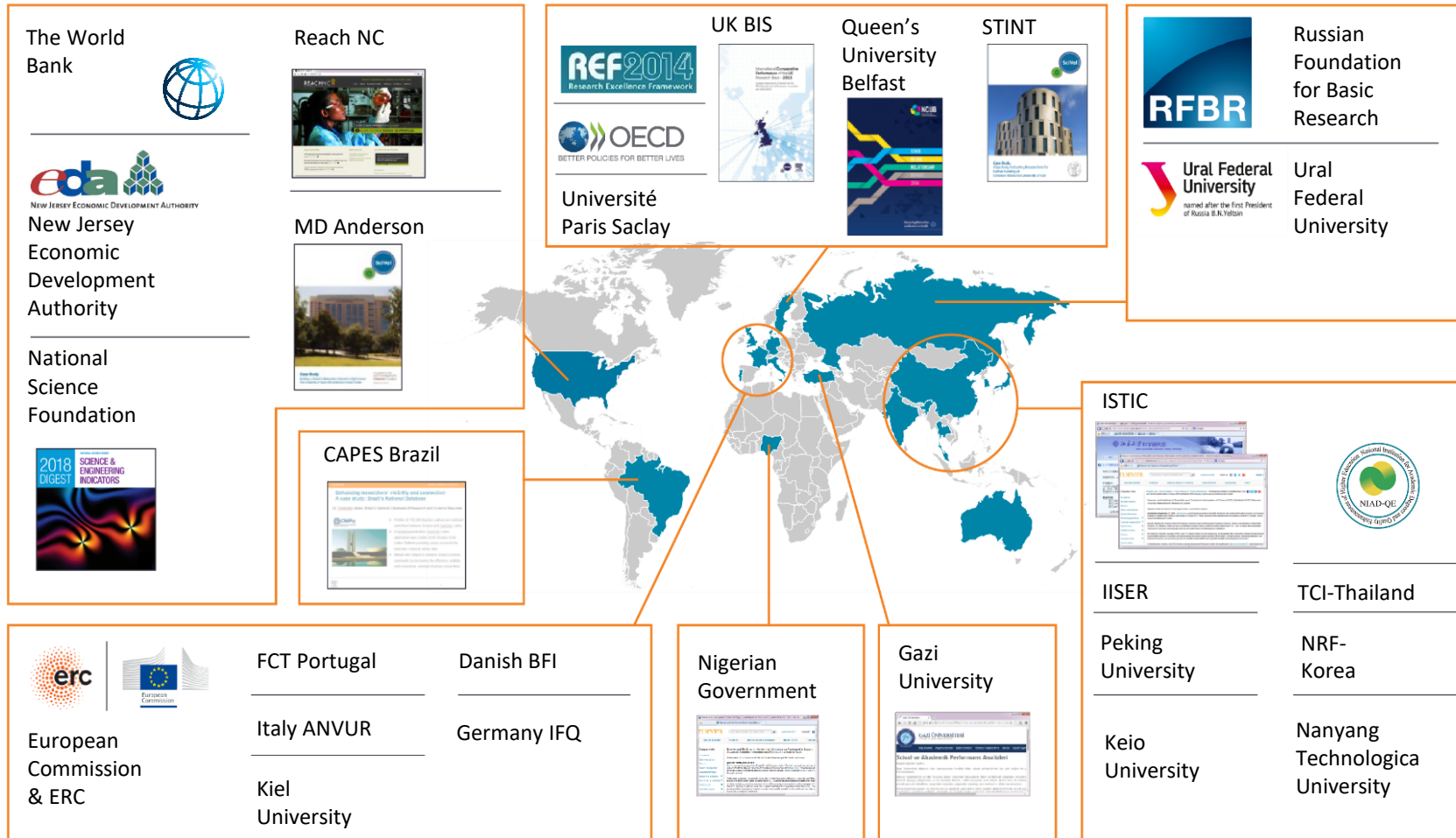
Number of journals by subject area**	Journals	Conferences	Books	Preprints
Physical sciences 15,634	28,932** active peer-reviewed journals 186 trade journals	161K conference events 12.58M conference papers	386K stand-alone books 3.44M total book items	2.5M preprints 7 preprint servers:
Health sciences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

Introducing to Scopus

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



Rankings Organizations



Introducing to Scopus



ELSEVIER



World university rankings – QS

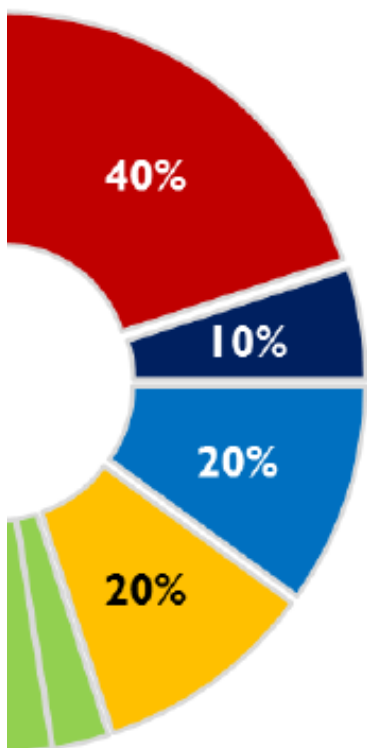
University Rankings use a combination of expert opinion (surveys) and objective data (including from Scopus)



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

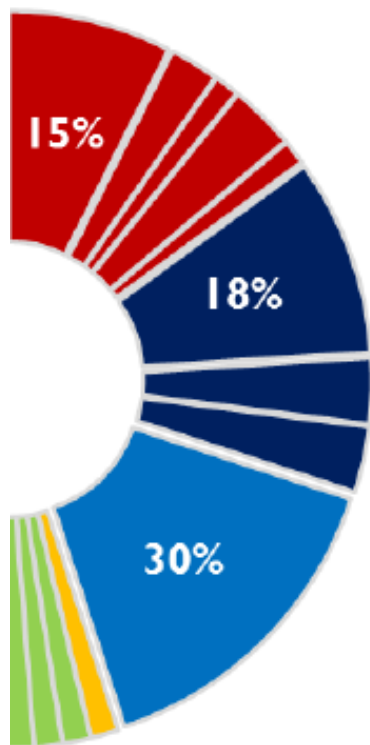
World university rankings – THE

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%)

Introducing to Scopus



Objective, High-quality Resources

All titles on **Scopus** are selected by the independent Content Selection & Advisory Board, which is strict about quality and publishing ethics. Furthermore, we are transparent about our selection policy, criteria and title evaluation process: <https://www.elsevier.com/solutions/scopus/content/content-policy-and-selection>

Get to know

Scopus

Scopus delivers a comprehensive view on the world of research.

No packages, no add-ons.

One all-inclusive subscription.

Content Selection & Advisory Board (CSAB)

All journals covered by Scopus are approved by an independent Content Selection & Advisory Board (CSAB). CSAB members are subject experts from all over the world and chosen for their expertise in specific subject areas. Many have (journal) editor experience.



Introducing to Scopus

Independent Content Selection Advisory Board (CSAB)



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National University of Singapore
Singapore
CSAB Chair – *Social Sciences*



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United Kingdom
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Professor Richard Whatmore
University of St Andrews
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Multidisciplinary*



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University Hospital of Southampton
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Chemistry, Chemical Engineering,
Energy, Material Sciences*



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Greece
CSAB Chair – *Engineering*



Professor Peter Stambrook
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United States of America
CSAB Chair – *Pharmacology, Toxicology and Pharmaceuticals;
Biochemistry, Genetics and Molecular Biology;
Neuroscience*



Professor Dr. Donald Dingwell
University of Munich
Germany
CSAB Chair – *Earth & Planetary Science*



Professor Ashok Raina
TATA Institute of
Fundamental Research
India
CSAB Chair – *Mathematics*



Professor Karin Wahl-Jorgensen
Cardiff University
United Kingdom
CSAB Chair - *Language, Linguistics, Communication and Media*



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CSAB Chair – *Law, Crime, Criminology and Criminal Justice*



Professor Chris van Kessel
University of California
USA
CSAB Chair - *Agriculture and Biological Sciences*



Searching Scopus - Demonstration

Research Workflow



Main Question(s)

- Why research is important?
- Why I have to make thesis/dissertation
- What skills required as new researchers?

- How to understand research topics?
- How to find research trends?
- How to link research with patents?

- What types of research manuscripts are out there?
- How to find collaborators?
- How to find funding bodies?

- How to find the right references?
- How to manage research references?

- What should I prepare before writing?
- What are important points in writing?
- How should I approach collaborative writing?

- How to find the right journal?
- What are these metrics in journals?
- What are ethics in publishing?

- How to increase my research visibility?
- How to increase my profile as researcher?

- How to assess my performance?
- How communicate my performance to stakeholders?

- How to manage research output?
- How to manage journals?

Let's Think!!!

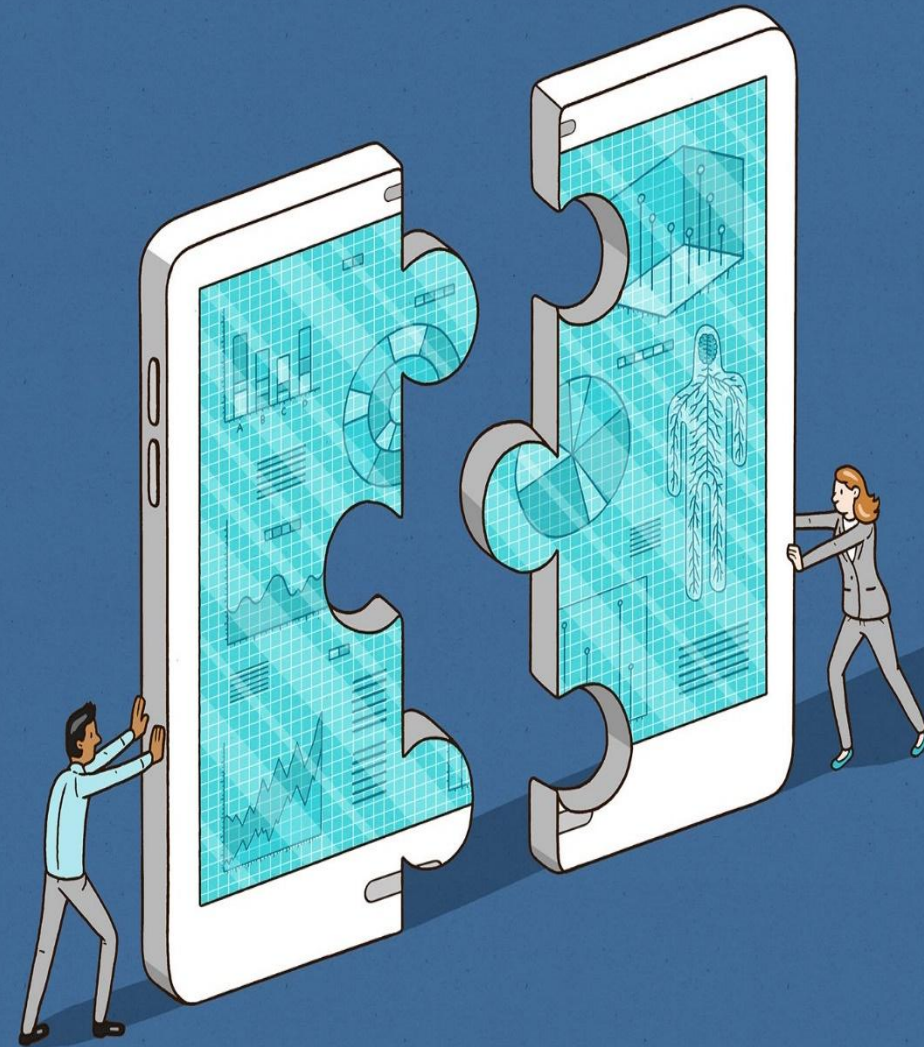


When you have to read what you don't like to read...



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

Log in using your institutional email

Start exploring

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 ?

Sources & Metrics

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](#) 

```
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.

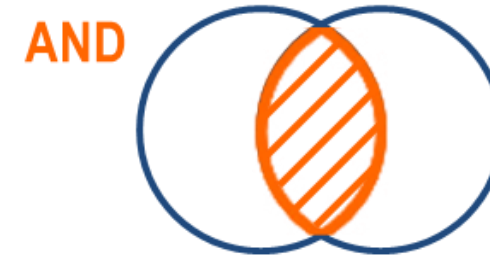
Search Functionality

- **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**



Exploring Literature



Search within: Article title, Abstract, Keywords | Search documents: "Particle interactions"

Save search | Set search alert | Add search field | Beta | Documents | Preprints | Patents | Secondary documents | Research data

19,507 documents found | Analyze results

Refine search: [Search within results] | [All] | [Export] | [Download] | [Citation overview] | [More] | [Show all abstracts] | Sort by: [Date (newest)] | [Grid] | [List]

Filters

Year: Range (selected) | Individual | [Histogram] | [from] - [to]

Author name | Subject area | Document type | Source title | Publication stage | Keyword | Affiliation | Funding sponsor | Country/territory | Source type

Document title	Authors	Source	Year	Citations
1 Fast Brownian cluster dynamics	Antonov, A.P., Schweers, S., Ryabov, A., Maass, P.	Computer Physics Communications, 309, 109474	2025	0
2 Study on the interaction of rod-shaped particles in a DC uniform electric field	Hu, S., Liu, Y., Jin, S.	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 708, 136045	2025	0
3 Incorporating particle roughness and hardness into contact model to reproduce elastic behaviors of granular soils in DEM	Wang, G., Nie, J., Cui, Y., Guo, J.	Computers and Geotechnics, 179, 107054	2025	0
4 Molecular Interactions Between ZnO Nanoparticles and Liver Target Proteins Revealed by Molecular Docking Method	Kirichenko, K.Y., Pamirsky, I.E., Timkin, P.D., ... Golokhvast, K.S.	BioNanoScience, 15(1), 94	2025	0

Scopus AI New | Find references for your research with summaries of recent work. | Try Scopus AI

1 Refine Search Results

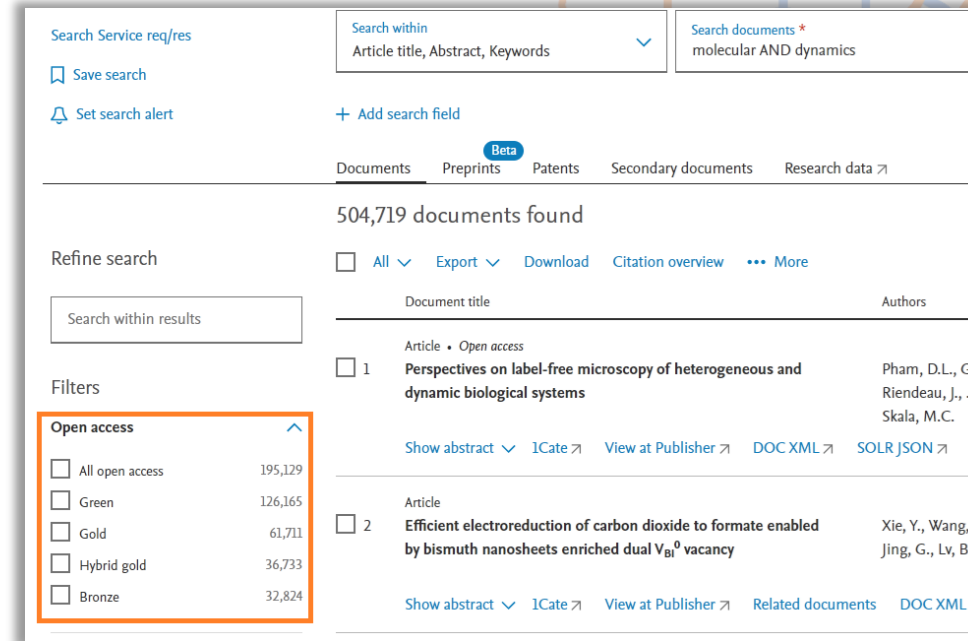
2 Mendeley/ Download/ Citation Overview/ View Cited by / Alert Setting / View References etc

3 Sorting Option (Date, Number of Citations, Relevance, First Author, Source Title)

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

Exploring Literature

Metrics

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.](#)^{a,b} [Schweers, Sören](#)^a [Ryabov, Artem](#)^c [Maass, Philipp](#)^a

[Save all to author list](#)

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^c 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

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[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 and Keywords of the articles

Abstract

Indexed keywords

SciVal Topics

Metrics

Funding details

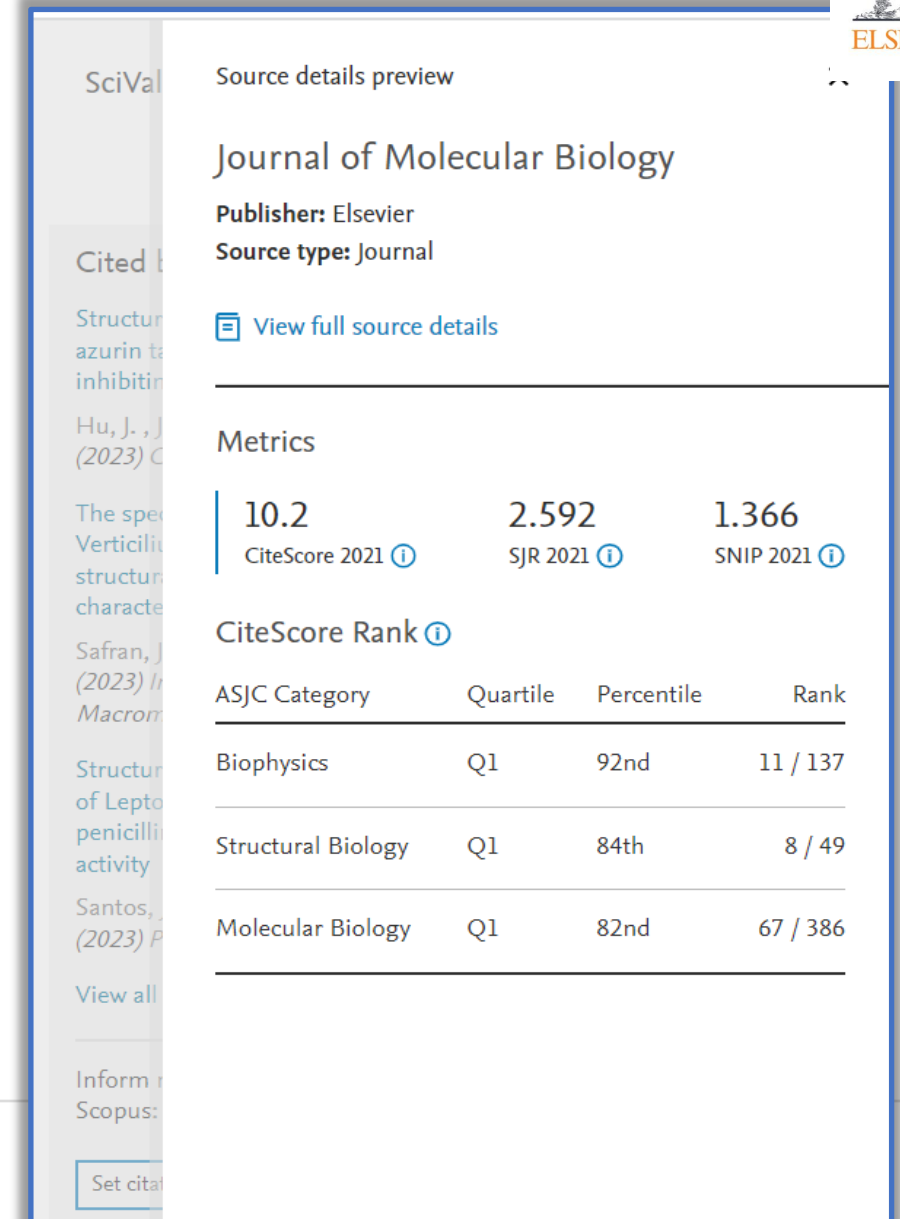
Abstract

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



The screenshot shows a 'Source details preview' flyout for the 'Journal of Molecular Biology'. It includes the Elsevier logo, the journal title, publisher (Elsevier), and source type (Journal). A 'View full source details' button is present. Below this, a 'Metrics' section displays CiteScore 2021 (10.2), SJR 2021 (2.592), and SNIP 2021 (1.366). A 'CiteScore Rank' section contains a table with ASJC categories and their corresponding quartile, percentile, and rank.

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

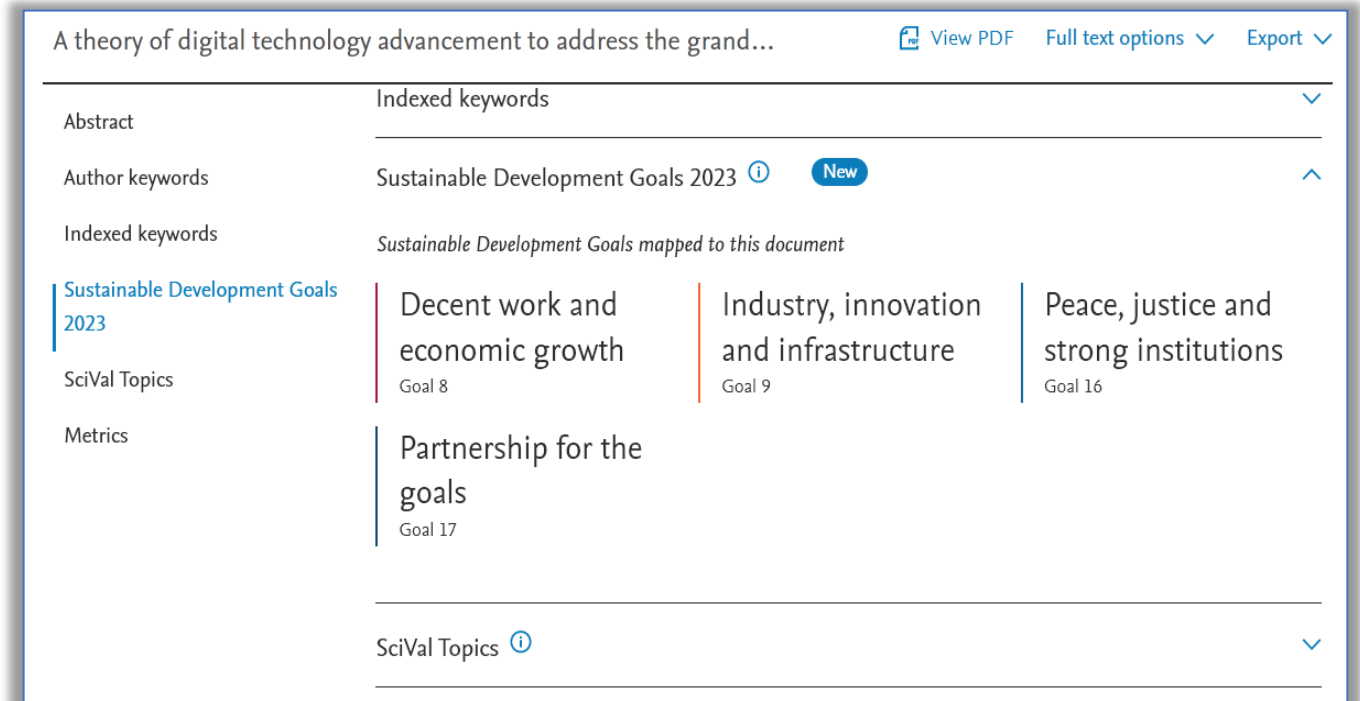


Sustainable Development Goal (SDGs)

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 page with the title "A theory of digital technology advancement to address the grand...". The left sidebar contains navigation options: 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, a section titled "Sustainable Development Goals mapped to this document" 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 the main grid. At the bottom, there is a "SciVal Topics" section.



Scopus Journal and Articles Metrics

Country and Institution

5.7
7.0
5.2

5.3
4.7
5.2





Universiteit Leiden



Citations in a year to documents published in 4 years

of documents in 4 years

Journal's citation count per paper

Citation potential in its subject field

Average # of weighted citations received in a year

of documents published in previous 3 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.

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.

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.

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



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Article title, Abstract, Keywords | "Particle interactions" | Save search | Set search alert | Add search field | Reset | Search

Beta | Documents | Preprints | Patents | Secondary documents | Research data

19,507 documents found | Analyze results

Refine search | Search within results

Filters | Year | Range | Individual

Author name

All | Export | Download | Citation overview | More | Show all abstracts | Sort by Date (newest)

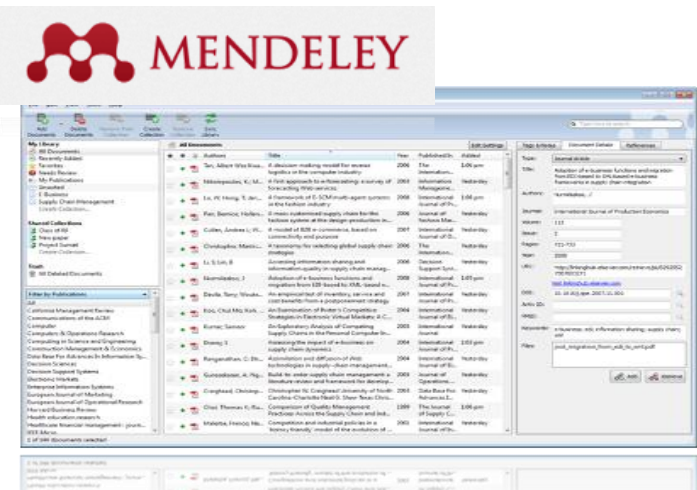
	Authors	Source	Year	Citations
1	Antonov, A.P., Schweers, S., Ryabov, A., Maass, P.	Computer Physics Communications , 309, 109474	2025	0
2	Hu, S., Liu, Y., Jin, S.	Colloids and Surfaces A: Physicochemical and Engineering Aspects , 708, 136045	2025	0

File types: CSV, RIS, BibTeX, Plain text

Reference managers: Mendeley, Refworks (RIS), Zotero (RIS), EndNote (RIS), Platforms, SciVal

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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   

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	Document title	Authors	Year	Source	Cited by
			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			
<input checked="" type="checkbox"/>	2 Inflationary universe: A possible solution to the horizon and flatness problems <i>Open Access</i>	Guth, A.H.	1981	Physical Review D 23(2), pp. 347-356	6533

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

i 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., Zschesche, 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
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Analyze Results

Analyze search results

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TITLE-ABS-KEY ("Particle Interactions")

15,583 document results

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

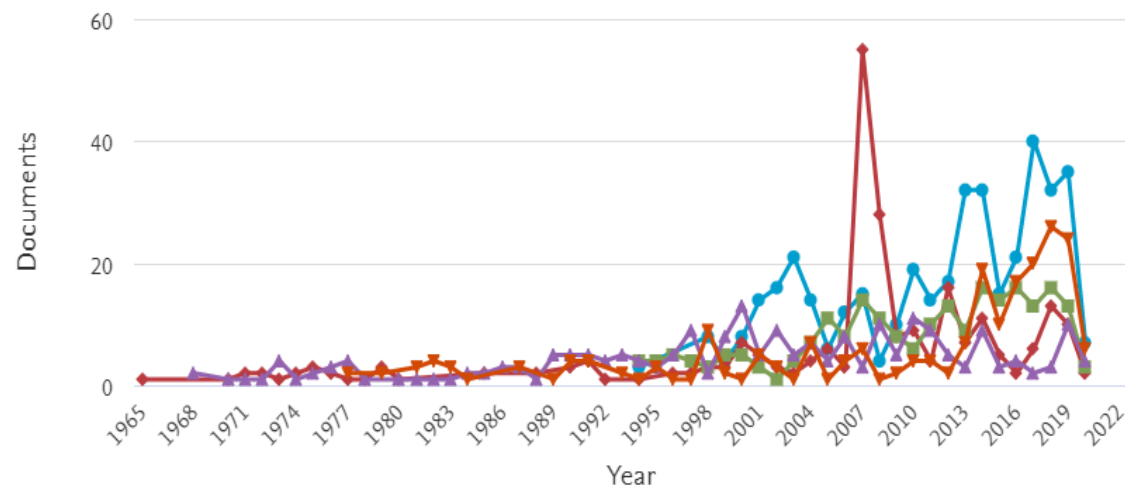
Source ↓ Documents ↑

<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](#)



Journal Of Geophysical Research Space Physics Physical Review Letters Physics Of Plasmas
Journal Of Colloid And Interface Science Geophysical Research Letters



Author Search



Author Search



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New

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

Enter last name *

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) v

All v Show documents View citation overview Request to merge authors Save to author list

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

Author (s): clickable

Refine your search

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](https://orcid.org/0000-0001-8699-9772)

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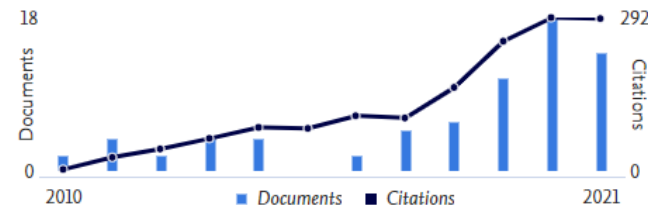
Metrics overview

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

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72 Documents [Cited by 1312 Documents](#) [0 Preprints](#) [111 Co-Authors](#) [Topics](#) [0 Awarded grants](#)

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

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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.

Author Position

Based on 6 documents for 2013 - 2022

First author • 67%

Documents	Average citations	Normalized Average FWCI
4	7	0.573

Last author • 0%

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Single author • 0%

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1 Author Details

Author detail: name, Scopus ID, affiliation

2 Author Corrections

3 Search Functionality

4 Sorting Option
(Date or Number of Citations)

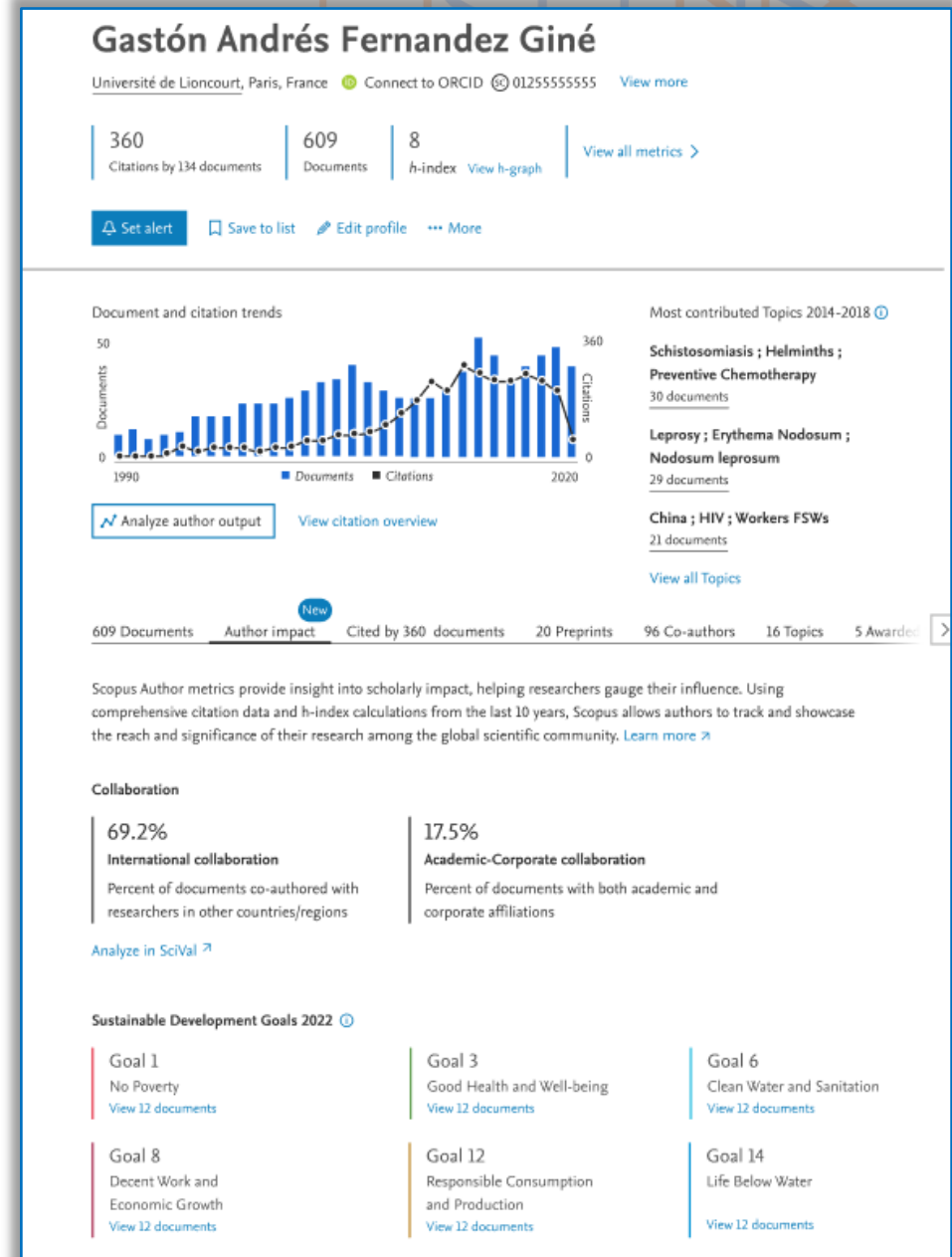
5 Author Publications

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](#)

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Lim, Steven

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

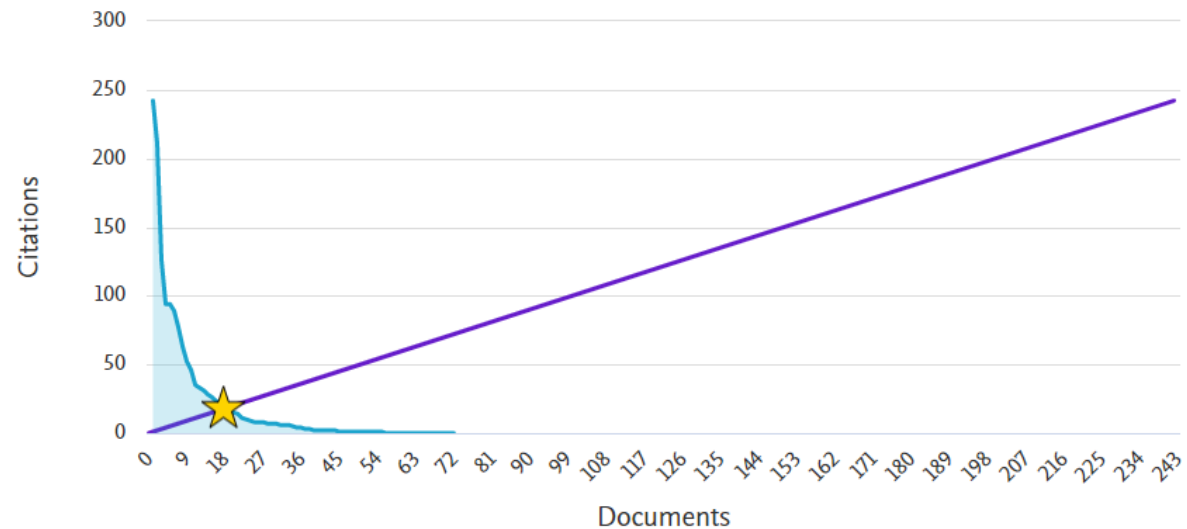
Analyze documents published between: to
 Exclude self citations Exclude citations from books [Update Graph](#)

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

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

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What will you be able to do:

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- 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

i 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.

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.					

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- Set the preferred name
- Merge Profiles
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- 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 Exclude

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 ^
<input checked="" type="checkbox"/> 1	Horng, Chong Shin Chong, S. H. Chong, Shin Horng	64	7	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia
<input checked="" type="checkbox"/> 2	Horng, Chongshin Horng, Chong Shin	1	0	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia
<input checked="" type="checkbox"/> 3	Chong, Shin Horng	1	0	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia
<input checked="" type="checkbox"/> 4	Chong, Shin Horng	1	0	Universiti Teknikal Malaysia Melaka	Malacca	Malaysia

Display: 200 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.



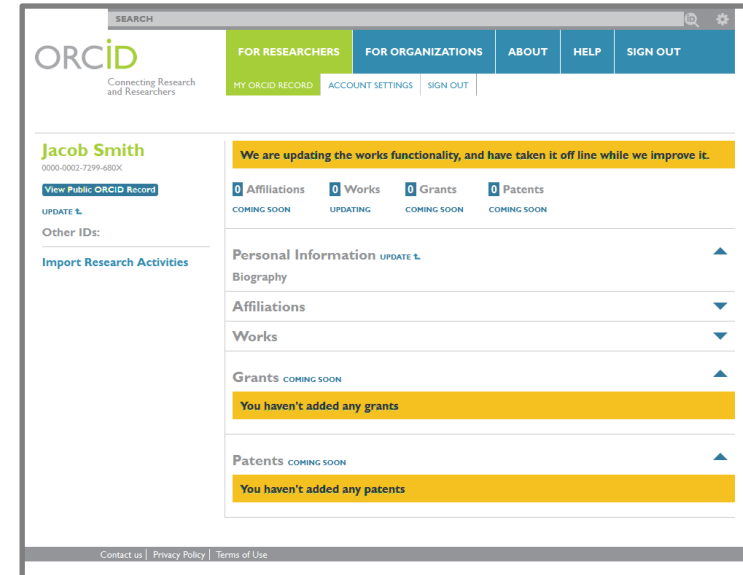
Dr. Win

Dr. H. Win

Dr. Handsome Win

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



Dr. Handsome Win
46533489

<https://orcid.org/>

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1

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Registration takes 30 seconds.

2

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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

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Select profile name

Review publications

Review profile

Send Author ID

Send publications



Source Browser

Source Browser



Search Sources Lists SciVal Google



Sources

Sources Browser

Title

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

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

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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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](#) [Set document alert](#) [Save to source list](#) [Entitled Full Text](#) [Copac](#) [EZB Ektr. Zeitschriften bib](#) [More](#)

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

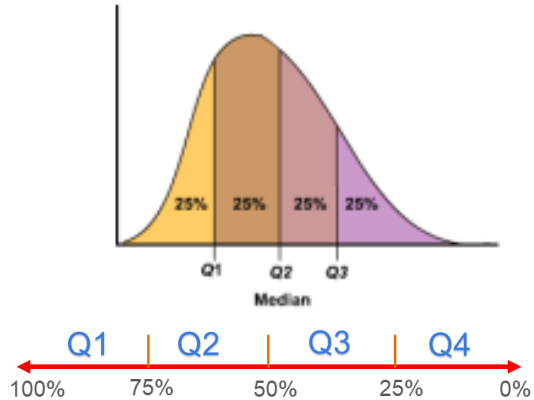
Read CiteScore of selected year or current year. Also see how it is calculated.

CiteScore rank 2021

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

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](#)

CiteScore 2021
11.7

SJR 2021
1.749

SNIP 2021
1.807

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

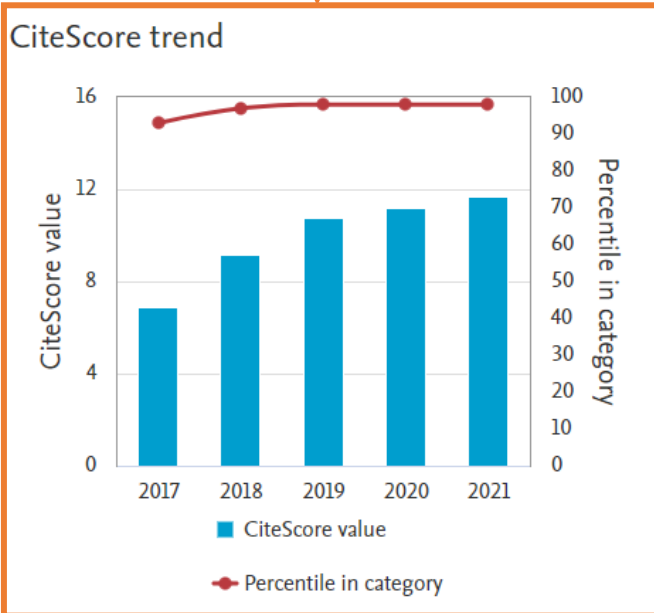
See 5 years trends of this journal

CiteScore CiteScore rank & trend Scopus content coverage

CiteScore rank 2021 In category: Agricultural and Biological Sci...

#2	Ecosystem Services	11.7	98th percentile
119			

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



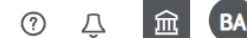
Out of all 119 journals in **Agricultural and Biological Sciences**, Ecosystem Services is **2nd rank**. Therefore, it has **percentile at 98th** as Q1 Journal.

Scopus Source List



Scopus

Search Sources Lists SciVal Quick Link Test



Sources

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.](#)

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

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<input type="checkbox"/> 1 Ca-A Cancer Journal for Clinicians 1 Cate 1 Cate	463.2	99% 1/340 Oncology	50,948	110	92	
<input type="checkbox"/> 2 Nature Reviews Materials 1 Cate 1 Cate BIBSYS	115.7	99% 1/292 Materials Chemistry	21,170	183	98	
<input type="checkbox"/> 3 Nature Reviews Molecular Cell Biology 1 Cate 1 Cate BIBSYS	99.7	99% 1/382 Molecular Biology	21,027	211	88	

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Source details

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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

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Source Homepage

Cite Cite

BIBSYS

CiteScore 2020

9.3

SJR 2020

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SNIP 2020

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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



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Source details

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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](#)

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[BIBSYS](#)

CiteScore 2017
1.4



SJR 2019
0.285



SNIP 2019
0.437



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Calculated on 01 May, 2018



= --

CiteScore rank 2017



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Related researchers

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Researcher detail

Author profile preview

Jongsomjit, Bunjerd

Chulalongkorn University, *Thailand*

Experience in research: **22+ years**

Year of latest matching document: **2023**

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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)

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Praserttham, Piyasan Chulalongkorn University, <i>Thailand</i> Preview profile	15	7188	502	45
Busca, Guido Università degli Studi di Genova, <i>Italy</i> Preview profile	12	24812	531	98
Garbarino, Gabriella Università degli Studi di Genova, <i>Italy</i> Preview profile	12	1624	73	28
Riani, Paola UdR Genova, <i>Italy</i> Preview profile	10	2272	100	31
Wang, Lichang	9	5278	151	39



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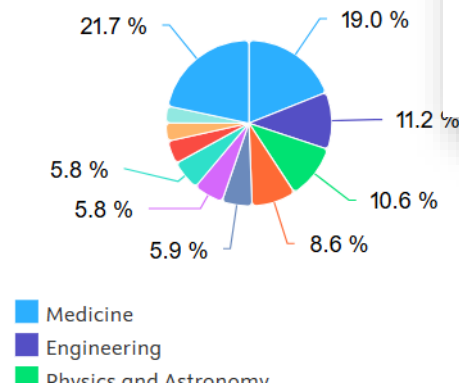
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Biochemistry, Genetics and Molecular Biology	39,426

Subject trends



Documents by Source

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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

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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

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276,139 document results

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- Bronze (36,165) >
- Green (99,728) >

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Year

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

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Author name

	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

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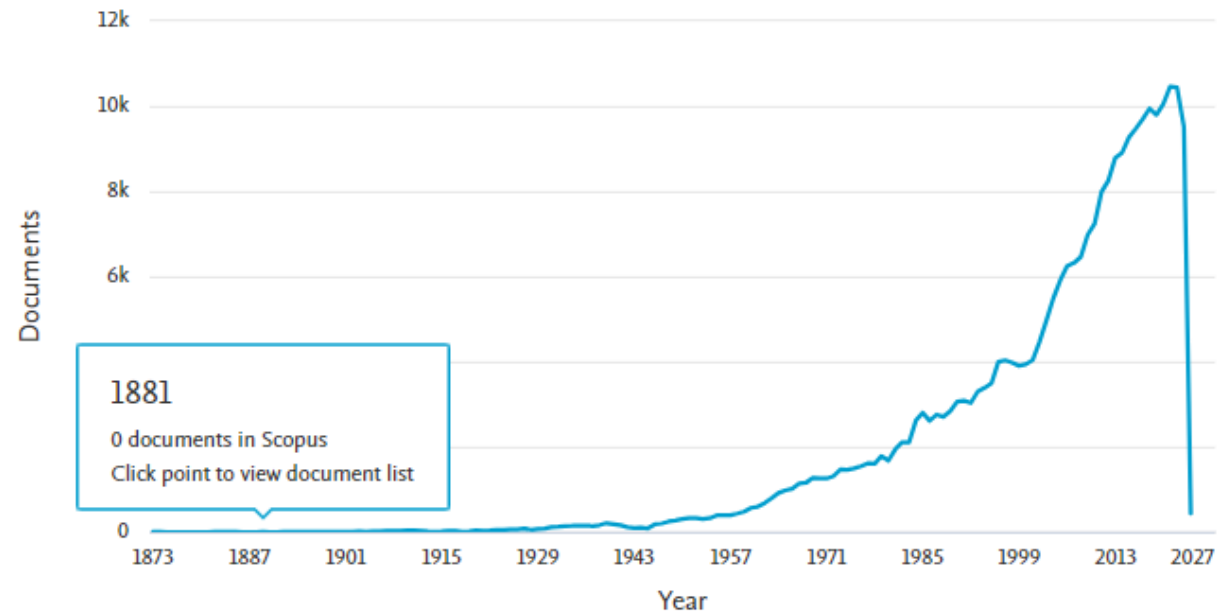
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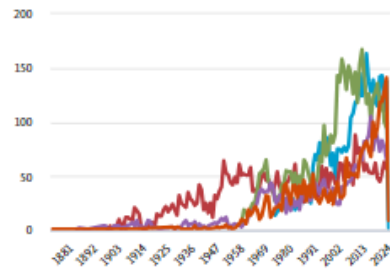
Year ↓	Documents ↑
2024	439
2023	9519
2022	10440
2021	10464
2020	10047
2019	9797
2018	9945
2017	9691
2016	9473
2015	9265

Documents by year

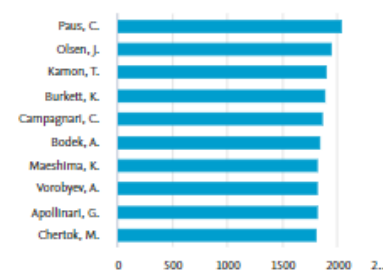


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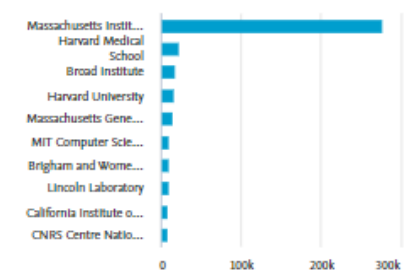
Documents per year by source



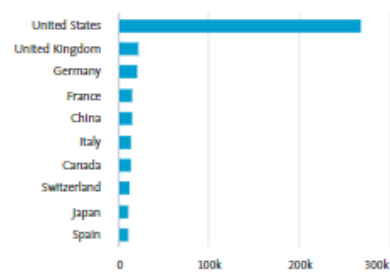
Documents by author



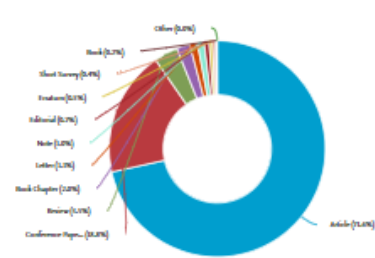
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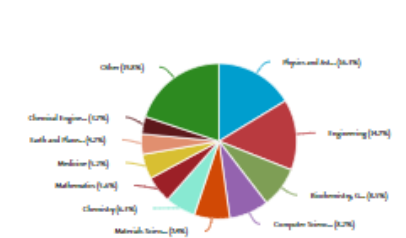
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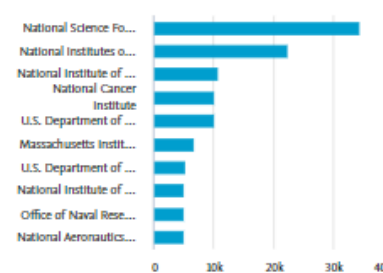
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- Massachusetts General Hospital (621) >

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<input type="checkbox"/> 2	Langer, Robert Samuel M. S. Langer, Robert Robert, Langer Langer, R. S. View last title	1850	255	Massachusetts Institute of Technology	Cambridge	United States
<input type="checkbox"/> 3	Gómez-Ceballos, Guillermo Gómez-Ceballos, G. Gomez-Ceballos, Guillermo Gomez Ceballos, G. View last title	1708	132	Massachusetts Institute of Technology	Cambridge	United States
<input type="checkbox"/> 4	Kovalskiy, Dmytro Kovalskiy, D. View last title	1672	133	Massachusetts Institute of Technology	Cambridge	United States
<input type="checkbox"/> 5	Goncharov, Maxim V. View last title	1641	133	Massachusetts Institute of Technology	Cambridge	United States

SKILLS

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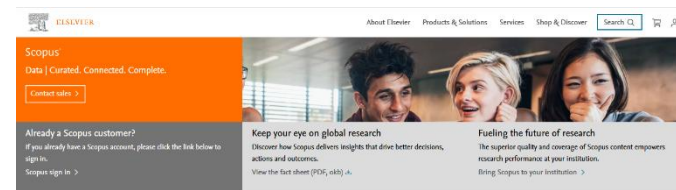
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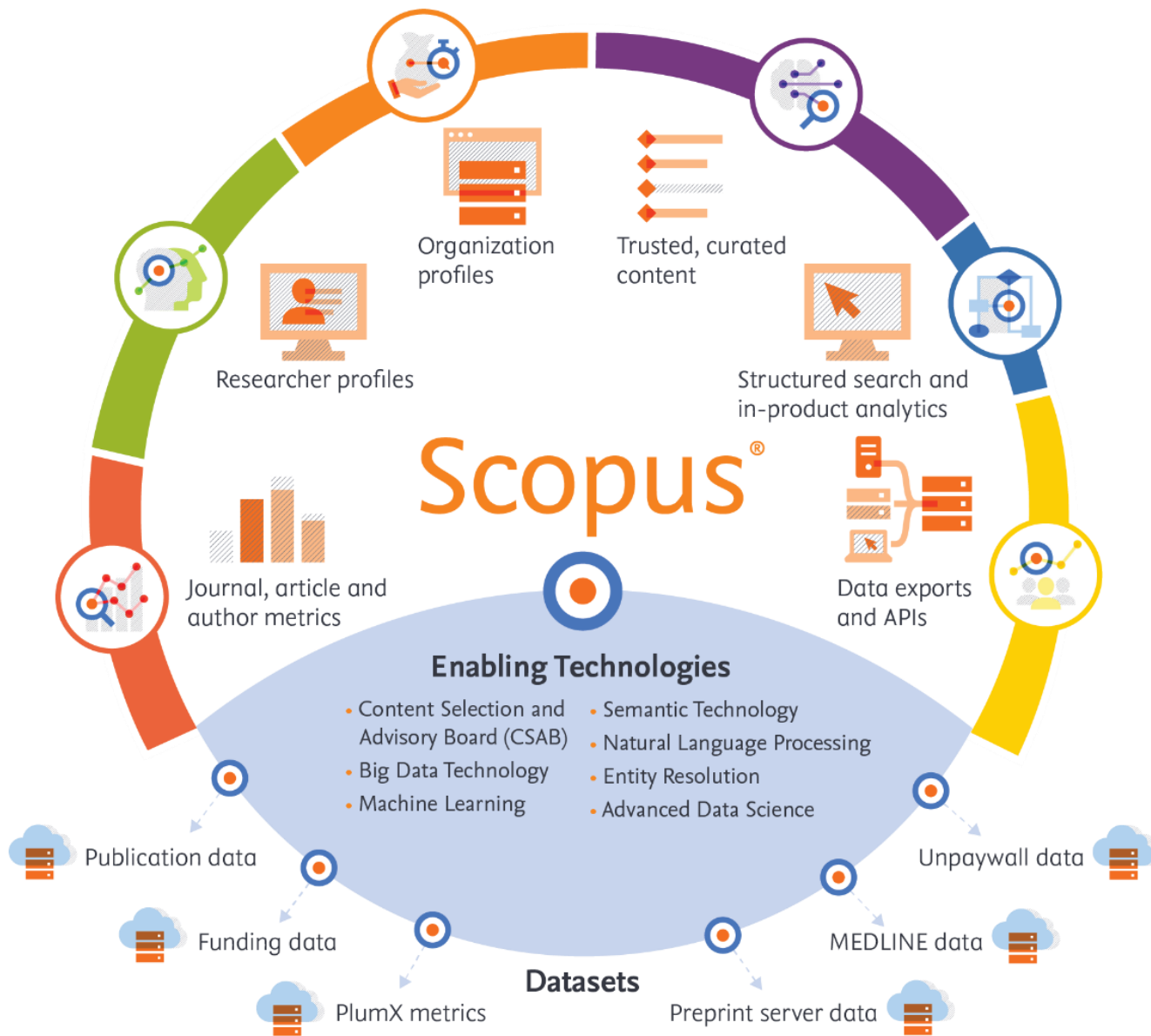
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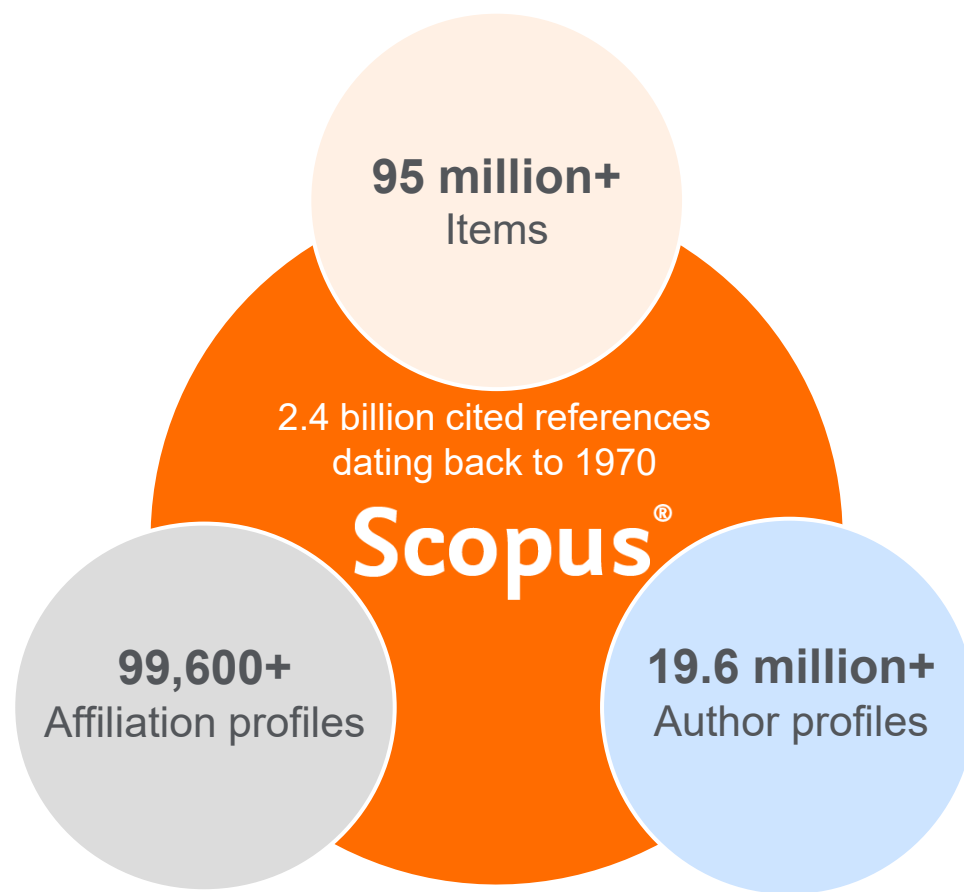
28K serials, 149K conferences, 292K books, 6,128 active Gold OA journals, from 7K+ publishers in 105 countries

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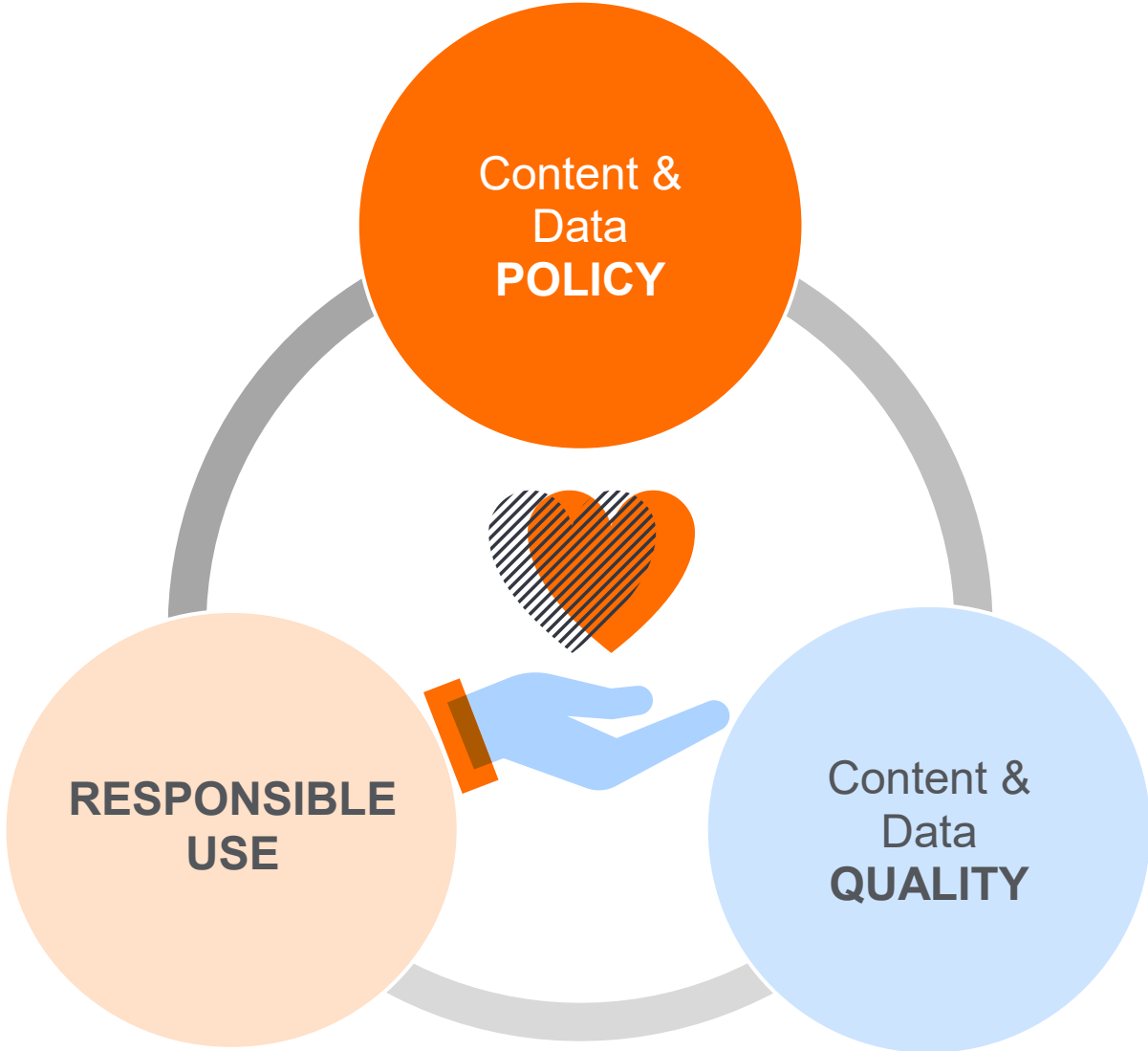
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Introduction to ScopusAI

Scopus



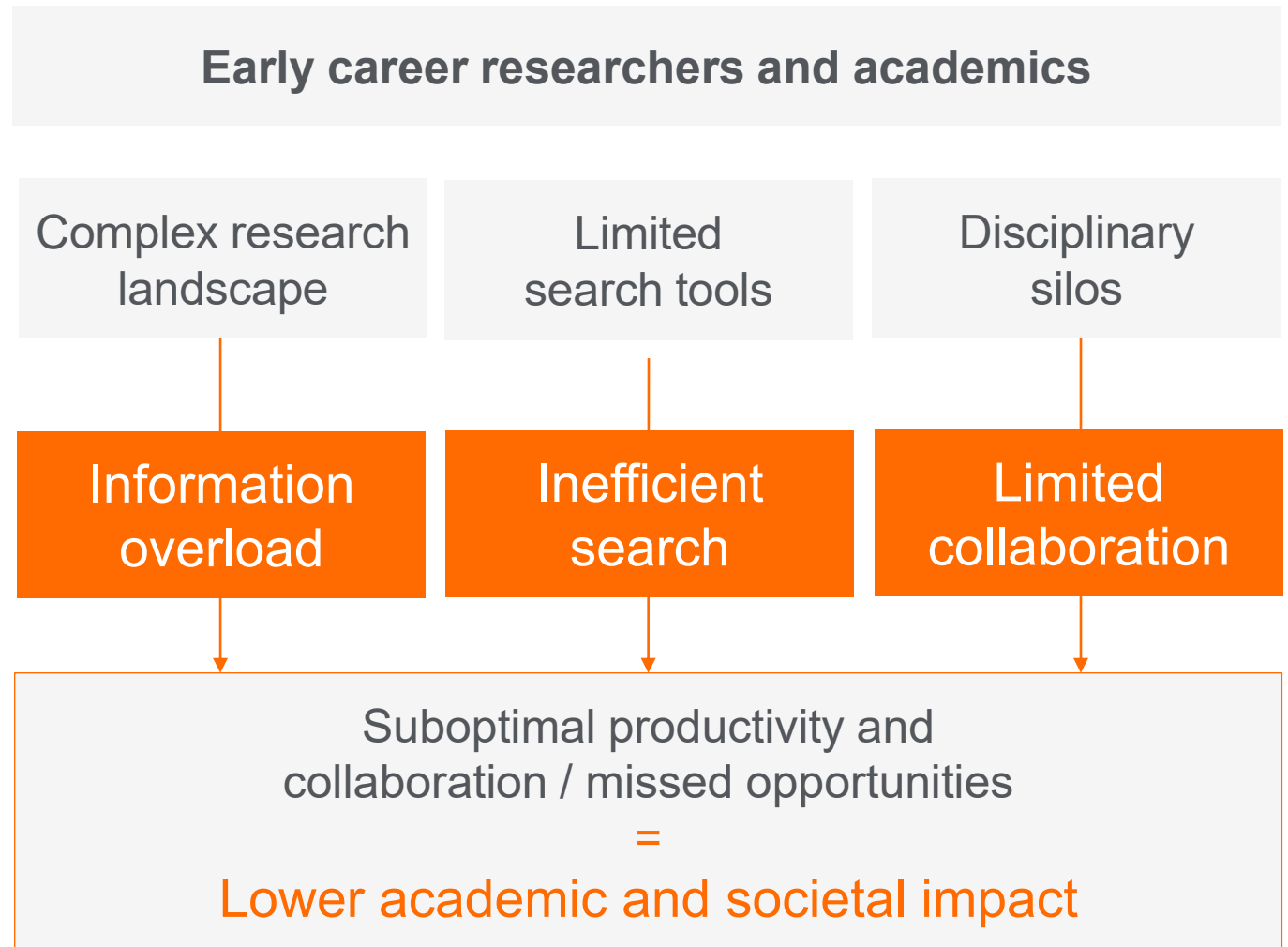
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What is your level of trust in using generative AI solutions to help you with your research work?

There are many challenges in research today

60% of Scopus users told us they wanted a way to learn about new topics more effectively

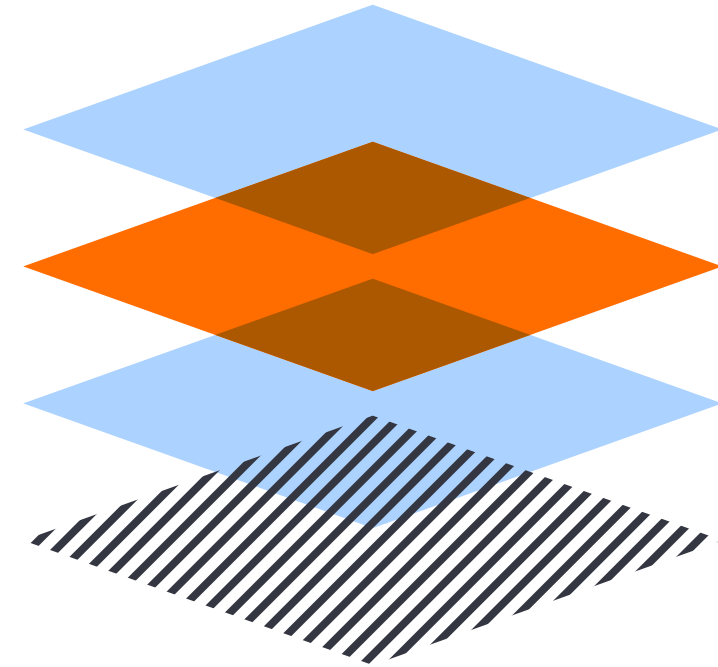


GenAI can help you get up to speed quickly

However, many of the GenAI tools on the market today are **unable to deliver the type – and range – of insights you need** when learning about a new field. For example:

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- The important ideas and emerging themes
- Who the top researchers are

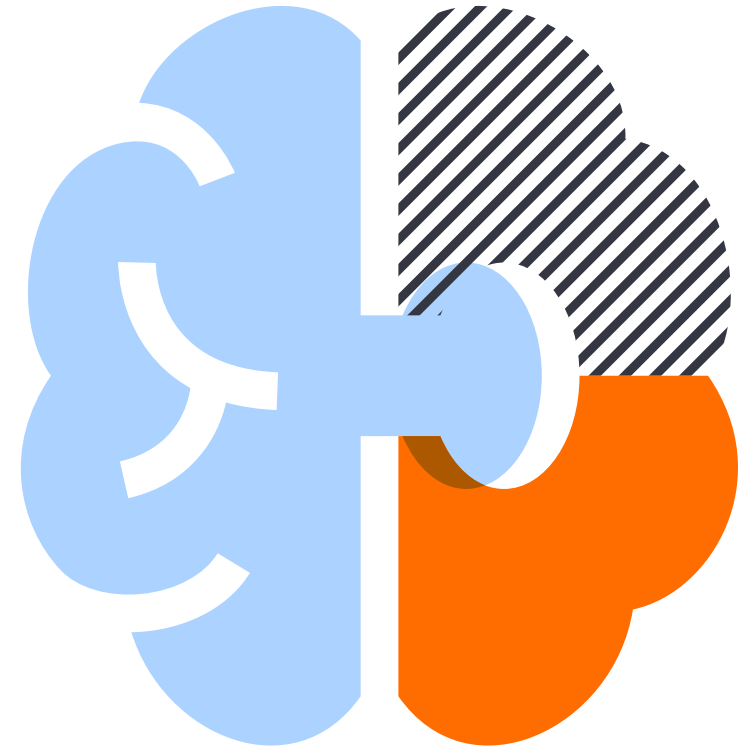
Crucially, many **lack transparency** around how they work — and even the content they draw on.



Introducing Scopus AI

Scopus AI is an intuitive and intelligent search tool informed by GenAI that draws exclusively on the trusted, curated content in Scopus.

Built in close collaboration with the academic community, it has been designed to respond to your natural language queries with focused and easy-to-understand insights on new terms, concepts and disciplines.



How do users benefit from using Scopus AI?

- **Finding references**
(e.g., for thesis or manuscript)
- **Getting familiar** with a new topic
- **Deepening understanding** of a research topic
- **Better articulating** a hypotheses or ideas
- **Explaining a complex topic** to juniors / non-academics
- **Collaborating** with others





ScopusAI

Scopus



Scopus AI today

Explore topics and discover relevant references since 2003 [How it works](#)

What impact does climate change have on coffee production?

What impact does climate change have on coffee production?

[Hide Copilot steps](#) ^

- Creating plan to answer your query
- Performing natural language search:
 - Impact of climate change on coffee production
- Performing keyword search:
 - ("climate change" OR global warming OR "climate crisis" OR "environmental change") AND ("coffee production" OR "coffee farming" OR "coffee cultivation" OR "coffee growing")
- Generating summary

Summary

Climate change has a significant impact on coffee production, affecting both yields and quality. Here are the key impacts supported by relevant abstracts:

- Reduction in Suitable Areas and Yields:** Climate change leads to a reduction in the area suitable for coffee production, lower yields, and increased intensity and frequency of extreme climate events [1](#) [2](#) [3](#) [4](#) .
- Pests and Diseases:** Increased temperature and rainfall variability induce the occurrence of pests and diseases, negatively affecting the volume and quality of coffee production [2](#) [3](#) [5](#) .
- Adaptation Strategies:** Farmers implement adaptation strategies such as selecting appropriate shade tree species, soil fertility maintenance, and pests and diseases management to minimize the detrimental effects of climate change [2](#) [5](#) [6](#) .

Expanded summary ^

Based on the user's query, I will address the impact of climate change on coffee production, the quality of coffee beans, the economic implications, the geographic distribution of coffee cultivation, and adaptive strategies for coffee farmers to mitigate the effects of climate change.

Impact of Climate Change on Coffee Production and Quality:

- Recent climate change models predict that coffee production and the livelihood of millions of farmers will be significantly affected by climate change. This is due to increasing temperature and rainfall variability, which will reduce the bio-climatic suitable areas, growth, and yield of coffee, and induce the occurrence of pests and diseases [1](#) [2](#) .

References

- 1 Opportunities for enhancing the climate resilience of coffee production through improved crop, soil and water management
Bracken P., Burgess P.J., Girkin N.T.
Agroecology and Sustainable Food Systems 2023
- 2 The impact of climate change on coffee production of small farmers and their adaptation strategies: a review
Jawo T.O., Kyereh D., Lojka B.
Climate and Development 2023
- 3 The impact of climate change and variability on coffee production: a systematic review
Pham Y., Reardon-Smith K., Mushtaq S., Cockfield G.
Climatic Change 2019

[Show all 7 references](#)

Copilot query tool

Natural language queries

Summary and Expanded summary

Clear references

Deep dive: Copilot

Co-pilot enables Scopus AI to optimize queries for the best results. Testing and offline evaluation has shown it massively improves the quality of the results produced. It also enables Scopus AI to support a full range of queries, from very specific to very broad. Copilot is an advance for Scopus AI which:

- Uses **both keyword and vector search tools** to help improve specificity of results
- **Breaks down complex queries** into separate elements and optimizes them for either vector or keyword search
- Also ensures **query language is optimized** for the English Scopus corpus (e.g., corrects spelling)
- Supports **non-English language** queries
- **Accepts longer text queries**, including full abstracts
- **Considers more search results** (up from 10 in the summary and 20 in the expanded summary to a new upper limit of 30)
- Co-pilot also provides a unique transparency layer that explains exactly how the tool is breaking down/optimizing the query. **This is unique among GenAI solutions currently on the market.**

Do RPL18 mutations cause DBA?

[Hide Copilot steps](#) ^

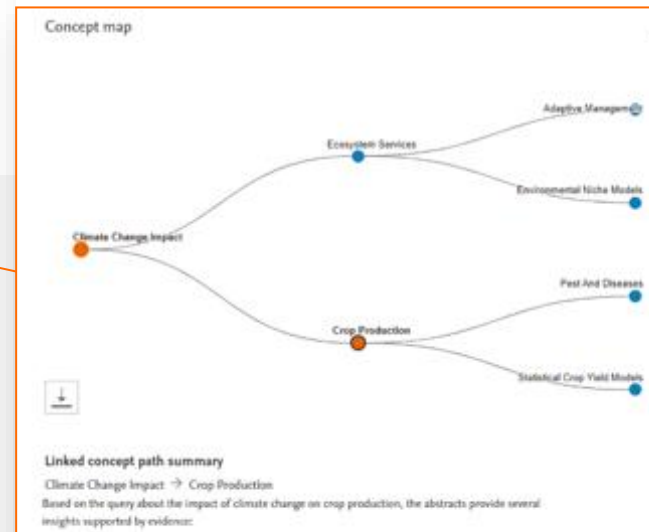
- ☑ **Creating plan to answer your query**
- ☑ **Searching for relevant academic papers on Scopus based on:**
 - Do RPL18 mutations cause Diamond-Blackfan anemia?
- ☑ **Searching for relevant documents in the topic of:**
 - RPL18 mutations and Diamond-Blackfan anemia
 - Keyword query: ("RPL18" OR "ribosomal protein L18" OR "ribosome protein L18" OR "RPL18 gene") AND ("Diamond-Blackfan anemia" OR "DBA" OR "congenital hypoplastic anemia" OR "Diamond-Blackfan syndrome")
- ☑ **Generating summary**

Summary

Based on the query about RPL18 mutations causing Diamond-Blackfan anemia (DBA), the evidence from the abstracts provides a direct answer:

Scopus AI today

Concept map



Foundational documents

353 citations
A bitter cup: climate change profile of global production of Arabica and Robusta coffee
C., Bunn, Christian, P.R., Librecht, Peter Roman, O., Ocullo-Rivera, Ofelia, O., Krachik, Dieter
Climate Change 2021

214 citations
Projected shifts in Coffea arabica suitability among major global producing regions due to climate change
O., Ocullo-Rivera, Ofelia, P.R., Librecht, Peter Roman, C., Bunn, Christian, (-), G., Scheith, Gert
PLoS ONE 2023

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Foundational documents

NEW: Emerging themes

Topic experts

Emerging themes

Microplastic Pollution in Freshwater Ecosystems Consistent theme

The persistent presence of microplastics in freshwater ecosystems continues to be a significant area of research. This theme has maintained steady interest due to the ongoing discovery of microplastic sources, their ecotoxicological effects, and the development of remediation strategies.

Show references

Potential hypotheses

- Microplastic pollution in freshwater ecosystems has a more significant impact on biodiversity than previously understood
- Innovative bioremediation techniques can significantly reduce microplastic concentrations in freshwater environments

Topic experts

Kath, Jarrod M. J.M.
180 citations 4 matching documents 17 h-index

Jarrod M. Kath has expertise in assessing the impact of climate change on coffee production through integrated spatial modeling, scale-dependency analysis of climate risks, and improving irrigation management for coffee farms. Their research on identifying potential coffee growing areas and determining critical thresholds for coffee production under climate change demonstrates their in-depth understanding of the subject.

View profile

Go deeper questions

Go deeper

- How does climate change affect the flavor profile of coffee beans?
- What measures can coffee farmers take to mitigate the impact of climate change on their crops?
- How does climate change influence the geographic distribution of coffee-growing regions?

What is included in a Scopus AI response?



Summary

A fully referenced Summary that includes guidance on the tool's confidence in the response



Expanded summary

An extended referenced summary that explores each query from multiple perspectives



Go deeper questions

A series of prompts designed to help you continue exploring and learning



Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space



Foundational documents

A list of influential articles that inspired the articles cited in the summaries



Topic experts

The top researchers in your chosen field (based on their volume of related publications)



NEW: Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity; for example, those that are new or currently underserved by the literature

Scopus AI natural language queries

Your search, your way

Ask questions on your chosen topic in a natural, conversational manner, supported by our powerful new **Copilot search tool**.

Benefits of Copilot

- Can combine both vector and keyword search
- Breaks down and optimizes queries to improve the specificity of results
- Supports queries in multiple languages
- Accepts longer text queries
- Considers more results

Copilot also provides a transparency layer that explains exactly how the tool has broken down and optimized your query. **It is one of very few GenAI solutions on the market to do this.**

Explore topics and discover relevant references since 2003 [How it works](#)

How can game theory be applied to corporate compliance programs?



How can game theory be applied to corporate compliance programs?

Hide Copilot steps ^

- ☑ Creating plan to answer your query
- ☑ Performing natural language search:
 - Application of game theory in corporate compliance programs
- ☑ Performing keyword search:
 - ("game theory" OR "strategic interaction" OR "decision theory" OR "interactive decision making") AND ("corporate compliance" OR "business compliance" OR "regulatory compliance" OR "corporate governance") AND ("programs" OR "initiatives" OR "strategies" OR "policies")
- ☑ Generating summary

Summaries with Scopus references

Learn about your chosen topic

- The **easy-to-digest Summary** provides a concise response to your initial query.
- The **Expanded summary** offers more depth and a wider range of perspectives.

Summary

Climate change poses a significant threat to coffee production, impacting both yields and quality [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) . Here's a breakdown of the specific threats:

Direct and Indirect Impacts:

- Reduction in suitable production areas, lower yields, increased frequency of extreme climate events, and greater incidence of pests and diseases are direct impacts of climate change on coffee production [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .
- Changes in rainfall patterns, temperature rise, and erratic weather negatively affect the volume and quality of coffee production [10](#) [11](#) [14](#) [9](#) .

Adaptation Strategies:

- Sustainable management practices, such as agroforestry and altering agrochemical inputs, can enhance the resilience of coffee production to climate change [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .
- Relocation of coffee plantations to more climatically suitable areas, irrigation, and diversification of coffee farms with trees are potential adaptation strategies [12](#) .

Vulnerability of Smallholder Farmers:

- Smallholder coffee farmers, who represent the majority of coffee producers, are highly vulnerable to the impact of climate change due to financial insecurity and limited access to adaptation measures [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .

In conclusion, the adverse effects of climate change on coffee production necessitate urgent implementation of adaptation strategies and policy interventions to support the resilience of coffee farmers and ensure the sustainability of coffee production [1](#) [10](#) [11](#) [12](#) [13](#) [14](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) .

References

- 1 Opportunities for enhancing the climate resilience of coffee production through improved crop, soil and water management
Bracken P., Burgess P.J., Girkin N.T.
Agroecology and Sustainable Food Systems ↗ 2023
- 2 Coffee in the crosshairs of climate change: agroforestry as abatis
Rice R.A.
Agroecology and Sustainable Food Systems ↗ 2018
- 3 Coffee and chocolate in danger
Gross M.
Current Biology ↗ 2014

[Show all 14 references](#)

Foundational documents

- 348 citations
- A bitter cup: climate change profile of global production of Arabica and Robusta coffee
C., Bunn, Christian, P.R., Läderach, Peter Roman, O., Ovalle-Rivera, Oriana, D., Kirschke, Dieter
Climatic Change ↗ 2015

Expanded summary

Based on the user's query, I will provide a summary that addresses the impact of climate change on coffee production, including its effects on yield and quality, the specific environmental factors affected, the economic implications, and sustainable agricultural practices to mitigate these impacts.

Impact of Climate Change on Coffee Production:

- Climate change poses a significant threat to coffee production, affecting both yields and quality [1](#) [2](#) [3](#) [4](#) [5](#) .
- Adverse environmental impacts include a reduction in suitable production areas, lower yields, increased intensity and frequency of extreme climate events, and a greater incidence of pests and diseases [1](#) [2](#) [3](#) .
- Changes in temperature, rainfall variability, and soil moisture are key environmental factors affected by climate change, leading to decreased coffee suitability areas, growth, yield, and increased pest and disease pressure [2](#) [4](#) [5](#) .

Economic Implications:

- The economic implications of climate change on the coffee industry are substantial, as coffee production supports the livelihoods of over 25 million people globally, the majority of whom are smallholder farmers located in the coffee belt spanning the tropics [1](#) .
- Climate change is projected to significantly lower coffee production, with potential yield decreases between 25% and 75% by the 2050s, leading to economic challenges for both farmers and national economies [6](#) [7](#) .

Mitigation Strategies:

- Sustainable management practices are urgently needed to enhance the resilience of coffee production and livelihoods to climate change [1](#) .
- Specific adaptation strategies pursued by farmers to reduce the impacts of climate change include selecting

Transparency and context about our confidence in the responses

Reflection layer


The prompt engineering guides the large language model to signpost in the summaries how relevant the response is to your query.

In this example, the language at the top of the Summary makes it clear that confidence in the response is medium, while the last paragraph adds nuance about the information available.

* Interface and functionality subject to change

Explore topics and discover relevant references since 2013 [How it works](#)

Do RPL18 mutations cause DBA

Copilot 

Do RPL18 mutations cause DBA

[Show Copilot steps](#) ▾

Summary

Based on the available abstracts, it can be inferred that mutations in ribosomal protein L18 (RPL18) are associated with Diamond-Blackfan anemia (DBA) [1](#) [2](#) . Here's a summary of the relevant findings:

- **Association with DBA:** Mutations in RPL18 have been identified in DBA patients, and the deficiency of RPL18 mirrors the erythroid defects observed in DBA [1](#) .
- **Pathogenesis:** Research using a zebrafish model demonstrated that RPL18 deficiency leads to a lack of mature red blood cells and activates the JAK2-STAT3 pathway, suggesting its involvement in the pathogenesis of DBA [1](#) .
- **Genetic Aetiology:** Whole exome sequencing analysis identified a non-synonymous variant in RPL18 in a family with DBA, resulting in pre-rRNA processing defects [2](#) .
- **Implications:** The identification of RPL18 mutations in DBA patients provides insights into the genetic basis of the disease and its potential role in ribosomal function and erythropoiesis [1](#) [2](#) .

In conclusion, the available evidence supports the association of RPL18 mutations with DBA, shedding light on the genetic underpinnings and potential pathogenic mechanisms of the disease.

Go deeper queries

Continue learning and exploring

Scopus AI generates three **Go deeper questions** for each query that help you drill down and broaden your understanding.

↳ How does rising global temperatures affect the growth and yield of coffee plants?

↳ What are the specific climate-related factors that contribute to the spread of coffee diseases and pests?

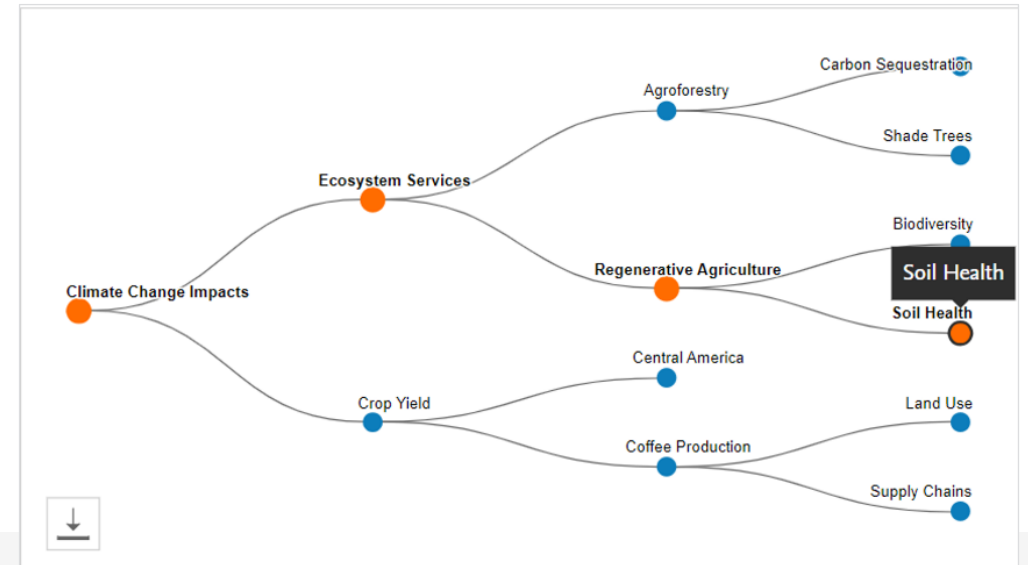
↳ How does changing rainfall patterns impact the quality and flavor profile of coffee beans?

The Concept map

See the big picture

The **Concept map** helps you get a bird's-eye view of the topic space and a more complete picture of your theme and its relationship to other research areas.

Clicking on a node will highlight how the node relates to the topic, and an explanation of the relationship will be provided beneath the Concept map.



Climate Change Impacts → Ecosystem Services → Regenerative Agriculture → Soil Health

The impact of climate change on soil health and its implications for regenerative agriculture and ecosystem services are well-documented in the literature.

Climate Change and Soil Health:

- Climate change affects soil health through factors such as weather variability, land use practices, and anthropogenic activities [1](#) .
- It can lead to soil desertification, erosion, and degradation, impacting soil biological, chemical, and physical functions [2](#) .
- The review emphasizes the intertwined relationship between climate change and soil health, highlighting the need for multidisciplinary approaches to improve crop production and achieve sustainable development goals [1](#) .

Foundational documents



Discover influential papers

The list of **Foundational documents** illustrates which papers heavily influenced the documents that Scopus AI used to write its response, specifically the Summary.

Foundational documents

189 citations

The ribosomal basis of diamond-blackfan anemia: Mutation and database update

I., Boria, Ilenia, E., Garelli, Emanuela, H.T., Gazda, Hanna T., (...), I., Dianzani, Irma

Human Mutation ↗ 2010

336 citations

Ribosomal Protein L5 and L11 Mutations Are Associated with Cleft Palate and Abnormal Thumbs in Diamond-Blackfan Anemia Patients

H.T., Gazda, Hanna T., M.R., Sheen, Mee Rie, A., Vlachos, Adrianna, (...), A.H., Beggs, Alan H.

American Journal of Human Genetics ↗ 2008

[Show more documents](#)

Topic experts



Meet the experts

Scopus AI draws on the rich Author Profiles in Scopus to introduce the most active authors in your chosen field, along with explanations of their relevant expertise.

Topic Experts

[Ramalho, José C. J.C.](#)

| 3578 citations 5 matching documents 41 h-index

José C. Ramalho is an expert in the impact of climate change on coffee production, as evidenced by their research on the biochemical and molecular responses of coffee plants to supra-optimal temperatures and elevated CO₂, as well as their investigation into the effects of drought, warming, and high CO₂ on coffee in the context of future climate change scenarios.

[Van Asten, Piet J.A. P.J.](#)

| 2875 citations 3 matching documents 31 h-index

Piet J.A. Van Asten is an expert in the adaptation strategies of coffee production to climate change. Their work focuses on understanding the critical thresholds for global coffee production under climate change, the influence of vapour pressure deficit on coffee ripening, and the exploration of adaptation strategies for coffee production in the face of climate change using process-based models.

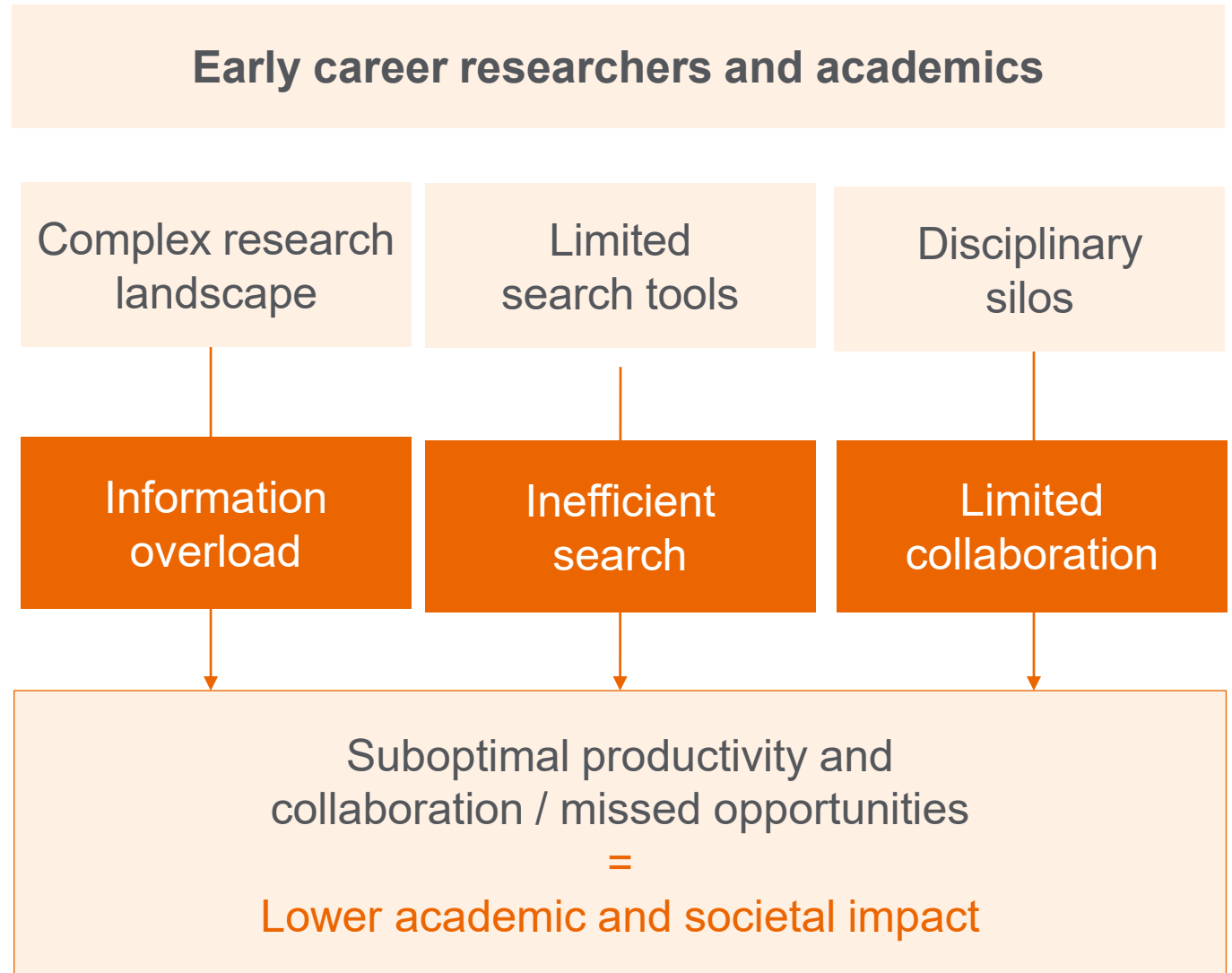
Understanding the power of Emerging themes on Scopus AI



There are many challenges in research today

60%

of Scopus users told us they wanted a way to learn about new topics more effectively



Emerging themes



Identify your next research area

Emerging themes is the logical next step on your discovery journey.

This new feature provides a comprehensive map of the themes in your selected research area and identifies the 'whitespace' you can use to target your next publication, collaboration or funding opportunity.

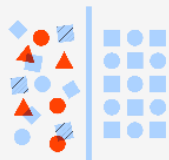
The screenshot displays the 'Emerging themes' interface. It features a main content area with several theme cards, each containing a title, a brief description, and a list of related articles. The themes shown are:

- Microplastic Pollution in Freshwater Ecosystems** (Greenwater theme): Focuses on the impact of microplastics in freshwater ecosystems, highlighting the need for comprehensive research to understand their effects on the environment and human health.
- Microplastics in Marine Food Webs** (Blue theme): Discusses the impact of microplastics on marine food webs, emphasizing the need for comprehensive research to understand their effects on the environment and human health.
- Microplastics in Polar Regions** (White theme): Explores the global distribution of microplastics and their ecological impacts in these sensitive environments.
- Biodegradable Microplastics** (Gold theme): Focuses on the study of biodegradable microplastics, highlighting their potential for sustainable applications.

On the right side, there is a sidebar titled 'Microplastics in Polar Regions' which provides a detailed view of the selected theme. It includes a 'Keywords' section, a 'References' section with a list of articles, and a 'Show all' button. The sidebar also displays a progress bar and a date range from 01/2023 to 04/2024.

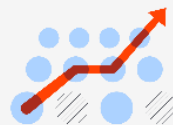
* Interface and functionality subject to change

What is included in Emerging themes?



Theme identification

Cluster similar ideas to understand the broader research landscape and key topics.



Publishing trends

Examine how research clusters evolve over time, revealing growth and emerging trends.



Hypothesis identification

Uncover research gaps and intersections to inspire innovative and impactful hypotheses.



NEW: Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity; for example, those that are new or currently underserved by the literature

What is the output of Emerging themes?

For each theme identified, Emerging themes provides:

- A** Mini descriptive **summary**
- B** Suggested research **hypotheses** for further testing
- C** **References** so you can explore the documents the summary is based upon.

Science Diplomacy in Climate Change Rising Theme

A Science diplomacy is increasingly recognized as a vital component of international climate cooperation. This theme focuses on the role of scientific research and collaboration in informing and shaping climate policy, emphasizing the importance of integrating scientific knowledge into diplomatic efforts.

[Show references](#)

Potential Hypotheses:

B

- Science diplomacy can bridge gaps between scientific research and policy-making, leading to more informed and effective climate action
- International scientific collaborations can enhance the global response to climate change by providing robust data and innovative solutions

Arctic and Antarctic Climate Cooperation Novel Theme

The emerging focus on climate cooperation in the Arctic and Antarctic regions represents a novel theme. This theme explores the unique challenges and opportunities for international collaboration in these polar regions, which are critical for understanding and mitigating global climate change impacts.

[Show references](#)

Potential Hypotheses:

- International cooperation in the Arctic and Antarctic regions can provide critical insights and solutions for global climate change mitigation
- Enhanced scientific collaboration in polar regions can lead to more effective climate policies and adaptation strategies

Science Diplomacy in Climate Change Rising Theme C

Rising Theme

Growing research areas identified through steadily increasing publications over the past two years.

Nov 2023 - Nov 2024	18 documents	<div style="width: 100%; height: 10px; background-color: #0070c0; border: 1px solid #0070c0;"></div>
Nov 2022 - Nov 2023	9 documents	<div style="width: 50%; height: 10px; background-color: #0070c0; border: 1px solid #0070c0;"></div>

0 citations

BRIDGING SCIENCE AND DIPLOMACY TO BUILD A UNIVERSAL AGREEMENT ON THE SCIENCE OF CLIMATE CHANGE: The Intergovernmental Panel on Climate Change [↗](#)

De Pryck, K. [↗](#)

The Routledge Handbook of Collective Intelligence for Democracy and Governance [↗](#)

2023

[Show abstract](#) ▼

0 citations

IPCC [↗](#)

Lynn, J. [↗](#)

Handbook of the Anthropocene: Humans between Heritage and

Identifying the 'whitespace' that can push your field forward

- **Consistent theme:** Similar level of coverage over the two 12-month periods.
- **Rising theme:** While coverage is similar, the area appears to be growing.
- **Novel theme:** Coverage is relatively low, i.e., this is a new theme, or it is underserved by the current literature.

Sleep Biomarkers and Cognitive Decline Consistent Theme

The relationship between sleep biomarkers and cognitive decline has been a consistent area of research. Studies have focused on identifying reliable sleep parameters that predict cognitive decline and Alzheimer's disease. This theme is significant as it can lead to early detection and intervention strategies for neurodegenerative diseases.

[Show references](#)

Potential Hypotheses:

- [Specific sleep biomarkers can predict the onset of Alzheimer's disease years before clinical symptoms appear](#)
- [Interventions targeting sleep quality can delay the progression of cognitive decline in at-risk populations](#)

Disparities in Sleep and Cognitive Decline Rising Theme

Recent research has highlighted the disparities in sleep quality and cognitive decline among different racial and ethnic groups. This rising theme is critical for addressing health inequities and developing tailored interventions to improve sleep and cognitive health in diverse populations.

[Show references](#)

Potential Hypotheses:

- [Racial and ethnic disparities in sleep quality contribute significantly to differences in cognitive decline rates](#)
- [Culturally tailored sleep interventions can reduce cognitive decline disparities among minority populations](#)

Sleep Deprivation and Neuroelectrophysiological Changes Novel Theme

Recent studies have explored the neuroelectrophysiological changes associated with sleep deprivation, revealing its impact on cognitive flexibility and conflict monitoring processes. This novel theme is crucial for developing a deeper understanding of the neural mechanisms affected by sleep deprivation.

[Show references](#)

Potential Hypotheses:

- [Sleep deprivation-induced neuroelectrophysiological changes are reversible with targeted cognitive therapies](#)
- [Chronic sleep deprivation leads to permanent alterations in neuroelectrophysiological patterns associated with cognitive functions](#)

How does the Emerging themes feature work?

Vector Calculation performs two searches:

- **Year 1:** relevant abstracts published within the last 12 months
- **Year 2:** Relevant abstracts 12-month period prior to that

Selects ~300 relevant abstracts per search, clusters them by topic using vector similarity, and compares clusters to reveal a list of Emerging themes.

Body Positivity Movements on Social Media Consistent Theme

The consistent exploration of body positivity movements on social media platforms like Instagram and TikTok indicates a growing interest in how positive body image content can mitigate the negative effects of idealized body standards. This theme suggests potential for developing strategies to promote healthier body image perceptions among teenagers.

[Show references](#)

Potential Hypotheses:

- Exposure to body-positive content on social media improves body satisfaction and reduces appearance anxiety in teenagers
- Body positivity movements on social media can serve as effective interventions for combating body dissatisfaction among adolescents

Social Media Use and Body Image Interventions Rising Theme

The rising interest in interventions aimed at reducing social media use to improve body image and self-esteem among teenagers highlights a proactive approach to addressing the negative impacts of social media. This theme reflects a growing recognition of the need for practical solutions to mitigate the adverse effects of social media on adolescent mental health.

[Show references](#)

Potential Hypotheses:

- Reducing social media use leads to significant improvements in body image and weight esteem among adolescents
- Media literacy programs can effectively promote body satisfaction and healthy eating behaviors in teenagers

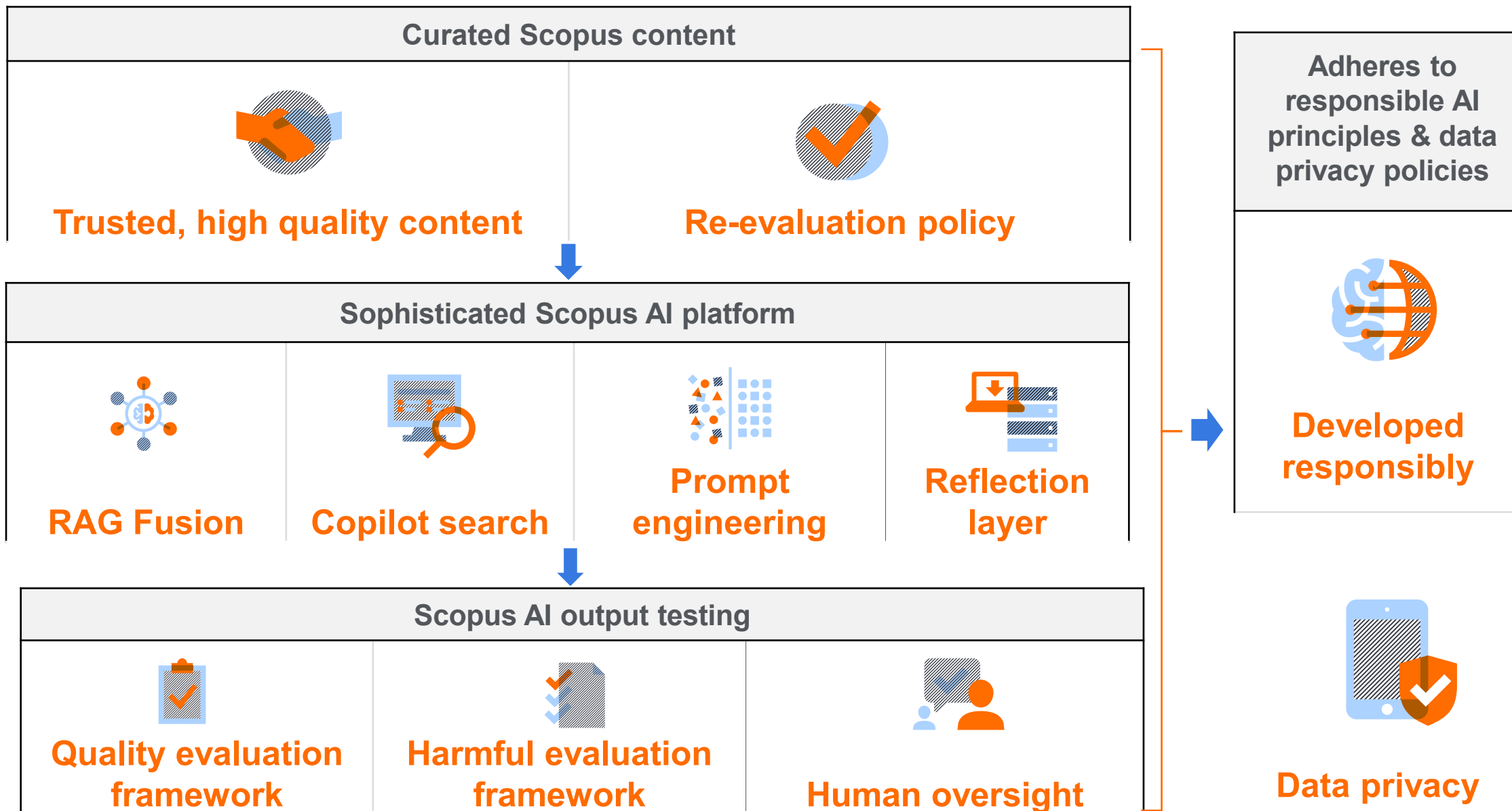
The Role of Augmented Reality Filters In Body Image Perception Novel Theme

The novel exploration of augmented reality (AR) filters and their impact on body image perception among teenagers represents a cutting-edge area of research. This theme delves into how AR filters, commonly used on social media platforms, influence self-esteem and body satisfaction, offering new insights into the digital manipulation of self-image.

Each of the themes is assigned to one of three categories:

- **Consistent:** Theme has received a similar level of coverage over the two 12-month periods.
- **Rising:** While the level of coverage is similar, the area appears to be growing in the more recent year.
- **Novel:** Coverage of the theme is relatively low, i.e., this is a new theme, or it is underserved by the current literature. This signals potential 'whitespace' you can use to target research, funding, collaborations and more.

How does Scopus AI ensure quality and reliability?



Natural conversation follow-up

Enter follow-up questions so you can keep **digging deeper**.

Refocus your query to explore **new perspectives** without starting over.

Zoom in on specific areas of interest to **enhance clarity and precision** in your understanding.

Go deeper

- How does gender influence preferred coping strategies for workplace stress?
- How does gender influence the way individuals perceive and cope with workplace stress?
- What role does gender play in how individuals seek help for workplace stress?

Ask a follow-up question

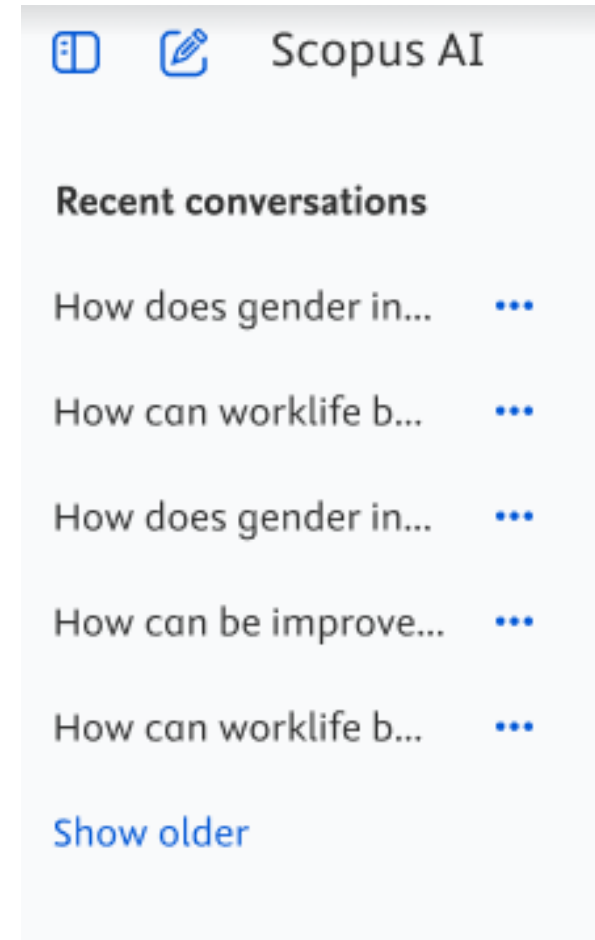


Conversational history

Automatically saves past **conversations** so you can revisit key insights at any time.

Enables you to **resume a query** where you left off.

Provides a useful **overview of your previous topic explorations.**



What Scopus data elements are used in Scopus AI?



Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition • Open Access • Volume 2022-June, Pages 15979 - 15988 • 2022 • 2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition, CVPR 2022 • New Orleans • 19 June 2022 through 24 June 2022 • Code 183275

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Masked Autoencoders Are Scalable Vision Learners

He, Kaiming; Chen, Xinlei; Xie, Saining; Li, Yanghao; Dollar, Piotr; Girshick, Ross

[Save all to author list](#)

[†] Facebook AI Research (FAIR)

1326 Citations in Scopus ^{99th percentile} | 372.20 FWCI | 2 Views count | [View all metrics](#)

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Abstract
This paper shows that masked autoencoders (MAE) are scalable self-supervised learners for computer vision. Our MAE approach is simple: we mask random patches of the input image and reconstruct the missing pixels. It is based on two core designs. First, we develop an asymmetric encoder-decoder architecture, with an encoder that operates only on the visible subset of patches (without mask tokens), along with a lightweight decoder that reconstructs the original image from the latent representation and mask tokens. Second, we find that masking a high proportion of the input image, e.g., 75%, yields a nontrivial and meaningful self-supervisory task. Coupling these two designs enables us to train large models efficiently and effectively: we accelerate training (by 3× or more) and improve accuracy. Our scalable approach allows for learning high-capacity models that generalize well: e.g., a vanilla ViT-Huge model achieves the best accuracy (87.8%) among methods that use only ImageNet-1K data. Transfer performance in downstream tasks outperforms supervised pretraining and shows promising scaling behavior. © 2022 IEEE.

Author keywords
Representation learning; Self- & semi- & meta- & unsupervised learning

Indexed keywords

Engineering controlled terms
Computer vision; Decoding; Image reconstruction; Learning systems

Engineering uncontrolled terms
Auto encoders; Core design; Encoder-decoder architecture; Input image; Large models; Original images; Representation learning; Scalable approach; Self- & semi- & meta- & unsupervised learning; Simple++

Engineering main heading
Signal encoding

Authors

Cited by counts

Abstract

Author keywords

Abstract

Author keywords

Indexed keywords

SciVal Topics

Metrics

References (72) [View in search results format](#)

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1 [Lei Ba, J., Ryan Kiros, J., Hinton, G.E. \(2016\) Layer normalization. Cited 841 times.](#)
[Order Document](#)

2 [Bao, H., Dong, L., Wei, F. \(2021\) BEiT: BERT pre-training of image transformers. Cited 449 times. Accessed in June 2021](#)
[Order Document](#)

3 [Becker, S., Hinton, G.E. Self-organizing neural network that discovers surfaces in random-dot stereograms \(1992\) Nature, 355 \(6356\), pp. 161-163. Cited 287 times. doi: 10.1038/355161a0](#)
[1Cite](#) [View at Publisher](#) [Order Document](#)

4 [Brown, T.B., Mann, B., Ryder, N., Subbiah, M., Kaplan, J., Dhariwal, P., Neelakantan, A., \(...\), Amodei, D. Language models are few-shot learners \(2020\) Advances in Neural Information Processing Systems, 2020-December. Cited 6963 times. https://papers.nips.cc/](#)
[1Cite](#) [Order Document](#)

5 [Caron, M., Touvron, H., Misra, I., Jegou, H., Mairal, J., Bojanowski, P., Joulin, A. Emerging Properties in Self-Supervised Vision Transformers \(2021\) Proceedings of the IEEE International Conference on Computer Vision, pp. 9630-9640. Cited 1009 times. http://ieeexplore.ieee.org/xpl/conhome.jsp?punumber=1000149 ISBN: 978-166542812-5 doi: 10.1109/ICCV48922.2021.00951](#)
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6 [Chen, M., Radford, A., Child, R., Wu, J., Jun, H., Luan, D., Sutskever, I. Generative pretraining from pixels \(2020\) 37th International Conference on Machine Learning, ICML 2020, PartF168147-3, pp. 1669-1681. Cited 373 times. ISBN: 978-171382112-0](#)
[1Cite](#) [Order Document](#)

What is included in a Scopus AI response?



Summary

A high-level, fully referenced Summary that includes guidance on the tool's confidence in the response



Expanded summary

An extended referenced summary that explores each query from multiple perspectives



Go deeper questions

A series of prompts designed to help you continue exploring and learning



Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space



Foundational documents

A list of influential articles that inspired the articles cited in the summaries



Topic experts

The top researchers in your chosen field (based on their volume of related publications)



Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity



Conversational Follow up

A free text field that enables you to enter follow-up questions and keep digging deeper



Conversational History

An automated list of all your previous queries so you can resume an existing search at any time



Scopus AI

Deep Research

Unleash your creativity with an AI tool designed to amplify thinking, not replace it



ELSEVIER



Advancing human progress together

Deep Research is an agentic AI tool that aims to *simulate aspects of human thinking*.

Deep Research independently breaks down queries and mines the peer-reviewed content in Scopus for the answers, **interpreting responses and adapting its approach, as required**

Findings – along with the insights drawn from them – are presented in a **nuanced, referenced report**

This is only the beginning

Look out for more Deep Research developments in H2 2025

ELSEVIER



See our [Deep Research user guide](#)

The anatomy of a Deep Research report

Referenced overview
of key findings

Theme	Key Insights	Supporting Citations
Real-Time Feedback Mechanisms	Adaptive feedback systems improve clinician-patient communication and diagnostic accuracy.	1 2 3 4 5
Clinician Workflow Integration	Seamless integration of AI tools enhances usability and adoption in remote diagnostics.	6 7 8 9 10
Accessibility	Universal design principles ensure inclusivity for users with sensory and motor impairments.	1 2 3
User Interface	Context-adaptive interfaces reduce cognitive load and	1 2 3

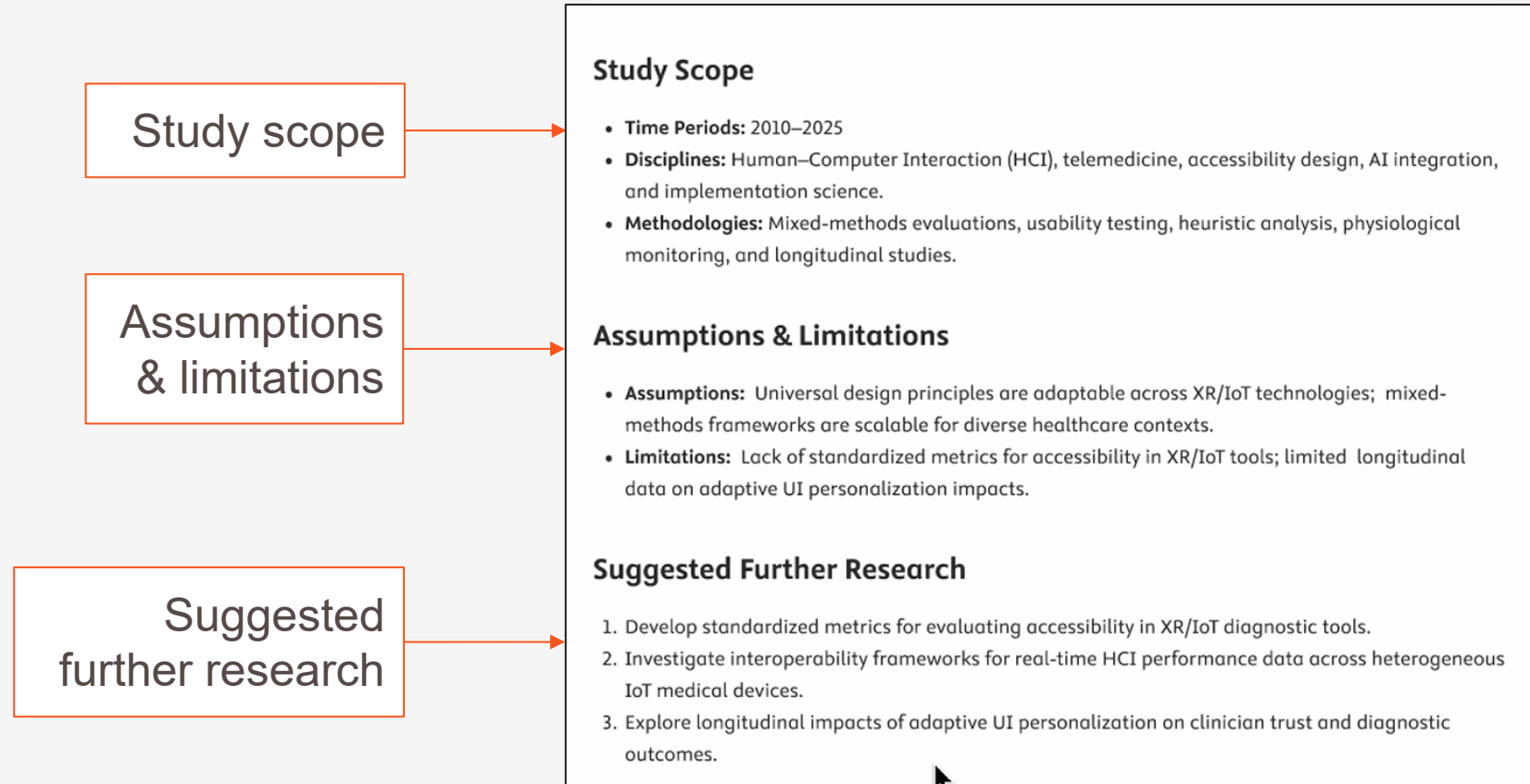
Direct answer to query

Direct Answer

Innovative Research Questions:

1. How can multimodal real-time feedback systems (audio, visual, haptic) be optimized to reduce clinician cognitive load while improving diagnostic accuracy in remote settings?
2. What role do physiological indicators (e.g., heart rate variability, fNIRS) play in adapting HCI interventions to support clinician performance and reduce diagnostic errors?
3. How can universal design principles be operationalized in XR/IoT-based remote diagnostic tools to ensure accessibility for users with combined sensory and motor impairments?
4. How does longitudinal use of human-centered decision support systems impact clinician trust, habit formation, and patient adherence in remote care?

The anatomy of a Deep Research report



The anatomy of a Deep Research report

Main body

Introduction

Context and Significance

Remote medical diagnostics have emerged as a cornerstone of modern healthcare, driven by advancements in telemedicine, IoT, and AI technologies. Human-Computer Interaction (HCI) plays a pivotal role in enhancing diagnostic accuracy, clinician workflows, and patient engagement. However, challenges such as cognitive overload, accessibility barriers, and workflow misalignment persist, necessitating innovative research and evaluation methodologies [1](#) [2](#) [3](#)

Scope and Objectives

This report explores innovative research questions and user study methodologies to improve HCI in remote medical diagnostics. Key areas include interface design, real-time feedback mechanisms, accessibility, and clinician workflow integration.

Innovative Research Questions in Human-Computer Interaction for Remote Medical Diagnostics

Novel HCI Challenges and Opportunities in Remote Diagnostics

- **Intelligent Interaction Methods:** How can adaptive multimodal feedback systems reduce cognitive load while enhancing diagnostic precision? [14](#) [15](#) [16](#)
- **AI and IoMT Integration:** What are the best practices for embedding AI-driven decision support tools into clinician workflows? [17](#) [18](#) [19](#)
- **Emerging Technologies:** How can XR and IoT technologies be leveraged to create immersive, accessible diagnostic environments? [20](#) [21](#)

Optimizing User Interface Design for Remote Diagnostic Systems

- **Context-Adaptive Interfaces:** How can dynamic GUIs tailored to clinical contexts improve usability and reduce errors? [22](#) [23](#)
- **Heuristic Evaluations:** What role do heuristic evaluations play in identifying critical usability issues in medical interfaces? [24](#) [25](#)

Synthesis paragraph

The anatomy of a Deep Research report

Discussion and future research directions

Discussion and Future Directions

Bridging Research and Clinical Practice

Human-centered design and stakeholder engagement are critical for translating HCI research into clinical workflows. Iterative co-design processes ensure tools align with clinician and patient needs

[47](#) [48](#)

Leveraging Emerging Technologies

AI, IoT, and XR technologies offer transformative potential for remote diagnostics. Addressing challenges in privacy, interoperability, and accessibility will unlock their full capabilities

[49](#) [50](#)

Advancing Evaluation Methodologies

Developing robust, scalable, and context-aware user study frameworks is essential for continuous improvement of remote diagnostic systems

[51](#) [52](#)

Conclusion

Summary of Contributions

This report identifies innovative research questions and user study methodologies to advance HCI in remote medical diagnostics. Key areas include real-time feedback, accessibility, and workflow integration.

Recommendations for Researchers and Practitioners

1. Prioritize universal design principles in emerging technologies.
2. Employ mixed-methods frameworks for comprehensive usability evaluations.
3. Conduct longitudinal studies to assess sustained impacts on clinician trust and patient outcomes.

[Show all 52 references](#) [Download report](#)

Conclusion and recommendations

Is this deep research report useful [Yes](#) [No](#)

Use Deep Research to:

- **Save time:** Early adopters tell us that a Deep Research report can save them days of preliminary research
- **Turn complexity into clarity:** Aggregate insights across domains into one comprehensive, synthesized report
- **Get granular when needed:** Refine your search with parameters like location, timeframe, or study type to tailor report scope
- **Build trust in your findings:** Each AI action is shown in real time, with peer-reviewed Scopus sources and confidence scores for transparency and trust
- **Gain a deep understanding:** Explore topics from multiple angles and uncover insights that go beyond surface-level summaries
- **Identify research gaps:** Spot areas ripe for investigation and innovation
- **Identify cross-disciplinary connections:** Reveal unexpected links between fields for new approaches and collaborations



How it works

How Deep Research mode works

Step 1

Breaks your query down into components

Step 2

Selects the best sources and search tools to answer them

Step 3

Continues adapting and iterating as it searches

Step 4

Aggregates and synthesizes findings for the Deep Research report

ELSEVIER



Deep Research is just the latest in the family of Scopus AI features

Summary

A high-level, fully referenced Summary that includes guidance on the tool's confidence in the response

Expanded summary

An extended referenced summary that uses RAG Fusion to explore each query from multiple perspectives

Go deeper questions

A series of prompts designed to help you continue exploring and learning

Concept map

A clickable visual that uses keywords to provide a bird's-eye view of the topic space

Foundational documents

A list of influential articles that inspired the articles cited in the summaries

Topic experts

The top researchers in your chosen field (based on their volume of related publications)

Deep Research report

A multi-page analysis with insights and ideas to help you move forward – ideal for complex or open questions

Emerging themes

A topic overview that helps you identify the research themes in your field of interest – including potential areas of opportunity

Conversational Follow-Up

A free text field that enables you to enter follow-up questions and keep digging deeper

Conversational history

An automated list of all your previous queries so you can resume an existing search at any time

Demonstration





Research Tools

Elsevier Journal Finder

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Best match ↑

[Best match](#)

Journal name

CiteScore

Impact factor

Acceptance rate

Time to 1st decision

Time to publication

↑ [Best match first](#)

↓ [Best match last](#)

Environmental Impact Assessment Review

OA S ISSN: 0195-9255 • Indexed by Chinese Academy of Sciences (中科院期刊分区)

Text match score

Top matching keywords

Air Pollution

CiteScore: 7.6

Impact Factor: 6.122

Acceptance rate: 12%

Time to 1st decision: 3 weeks

Time to publication: 2 weeks

3 Citescore, IF, acceptance rate, time to 1st decision, and time to publication

4 Click to see detail

Ecological Economics

OA S ISSN: 0921-8009 • Indexed by Chinese Academy of Sciences (中科院期刊分区)

Text match score

Top matching keywords

Air Pollution

Subject area: Ecology, Management, Monitoring, Policy and Law, Geography, Planning and Development

Recent articles: A conceptual framework for the assessment and monitoring of environmental impacts of agriculture, Can the opening of urban rail transit improve urban air quality? Evidence from 94 lines in China, Freshwater blue space design and human health: A conceptual research merging landscape science and ecometric analysis

Journal scope: --Part one: aims and scope--
Environmental Impact Assessment Review (EIA Review) is a refereed, interdisciplinary journal serving a global audience of practitioners, policy makers, regulators, academics and others with an interest in the field of impact assessment (IA) and management. Impact assessment is defined by the International Association for Impact Assessment (iaia.org) as the process of identifying the future consequences of a current or proposed action, for EIA Review, the field of IA can be related to as the assessment of impacts on or of the environment (including, for example, EIA and SEA), social (SIA), health (HIA), risk (RIA), human rights, equity, language, technology, products, etc. With current or proposed actions, the EIA Review audience assesses how best to evaluate the impacts of policies, projects, processes and products, and how best to make decisions and undertake management activities.
The focus of EIA Review is on innovative theory and practice that encompasses any of the above mentioned impacts and activities. In other words, EIA Review covers the following topics (the list is not exhaustive):
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• IA Governance;
• IA Methods, for example, forecasting, indicators, systems-based approaches, ecosystem services assessment, cost benefit analysis, algorithms, network-based approaches, among others;
• Life Cycle Assessment, Carbon Footprinting, Energy Analysis, Energy Analysis, and Integrated Product Policy;
• Environmental Management Systems.
Despite its name EIA Review is not restricted to review articles; However, it aims to publish only contributions

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RESEARCH PREPARATION

- > Funding
- > Research data management
- > Research collaborations
- > Research design

WRITING FOR RESEARCH

- > Fundamentals of manuscript preparation
- > Writing skills
- > Technical writing skills

PUBLICATION PROCESS

- > Fundamentals of publishing
- > Finding the right journal
- > Ethics
- > Open science

NAVIGATING PEER REVIEW

- > Fundamentals of peer review
- > Becoming a peer reviewer
- > Going through peer review
- > Certified Peer Reviewer Course

COMMUNICATING YOUR RESEARCH

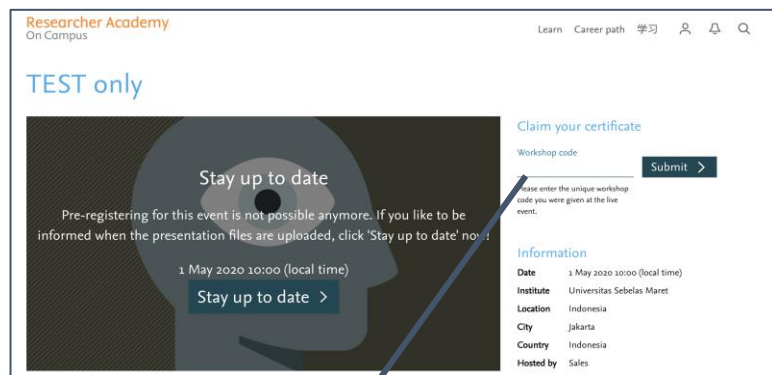
- > Social impact
- > Ensuring visibility
- > Inclusion and Diversity for Researchers

Q&A session



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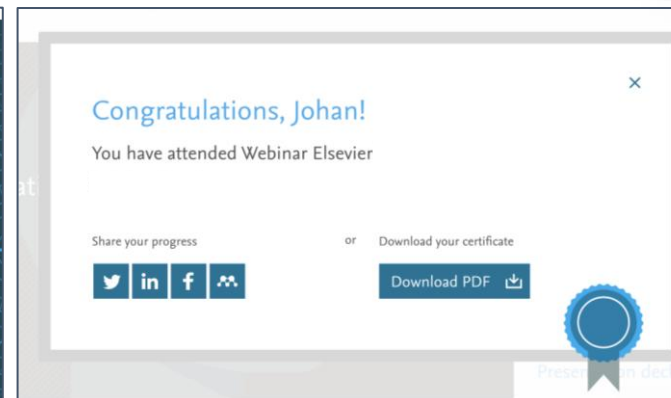
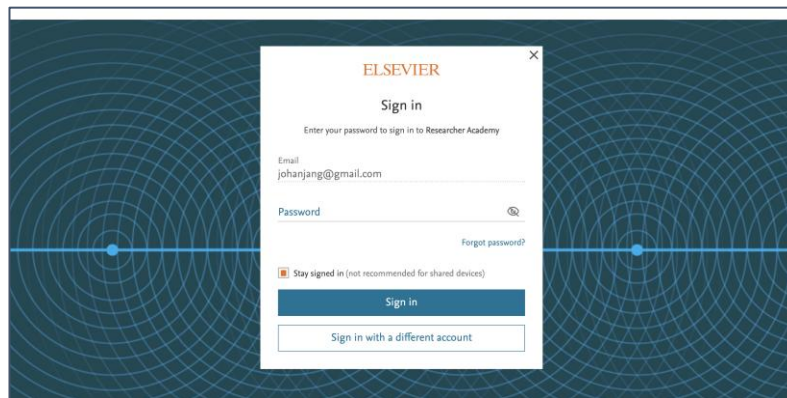


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