

Introduction to ScienceDirect, ScienceDirect AI and Scopus for research

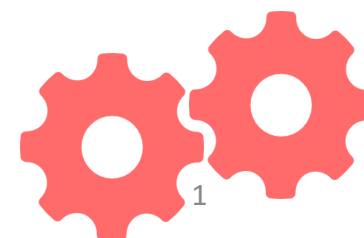
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Dr Yootapong Klinthongchai

Customer Success Manager

Elsevier South East Asia

y.klinthongchai@elsevier.com



Outline



1

Introducing to ScienceDirect

2

Introducing to ScienceDirectAI

3

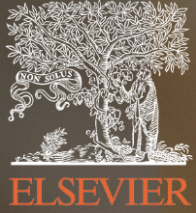
Introducing to Scopus

4

Q&A



Introducing to ScienceDirect



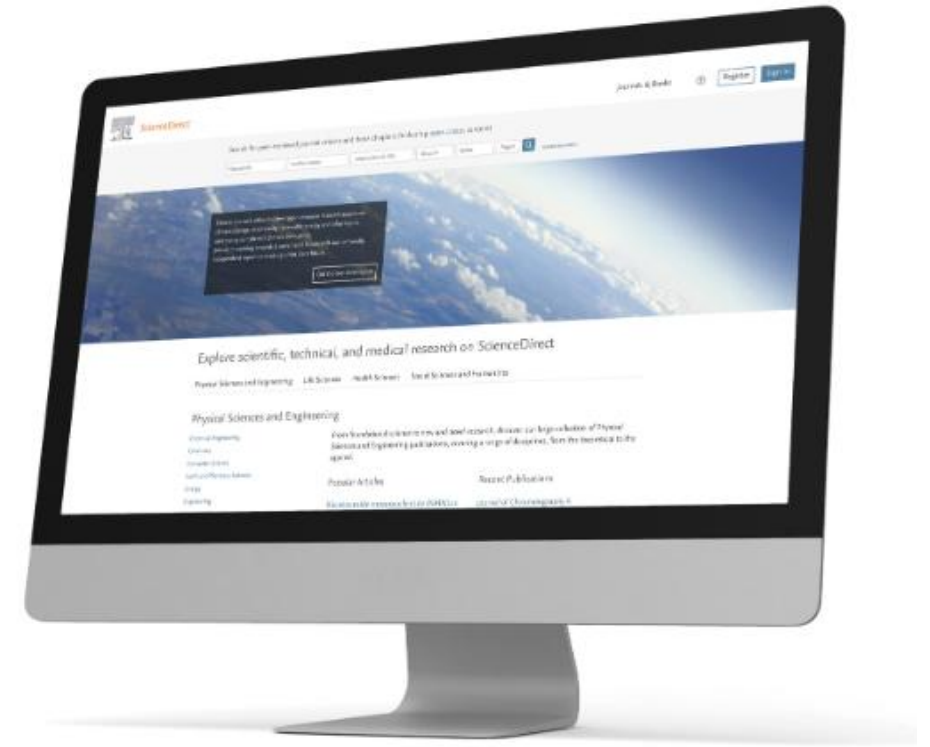
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information to move research forward

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- Inform new ideas
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- Gain in-depth insights into unfamiliar, emerging topics



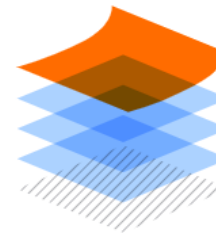
>20m articles



>2700 peer-reviewed journals



>46k eBooks



375k topic pages

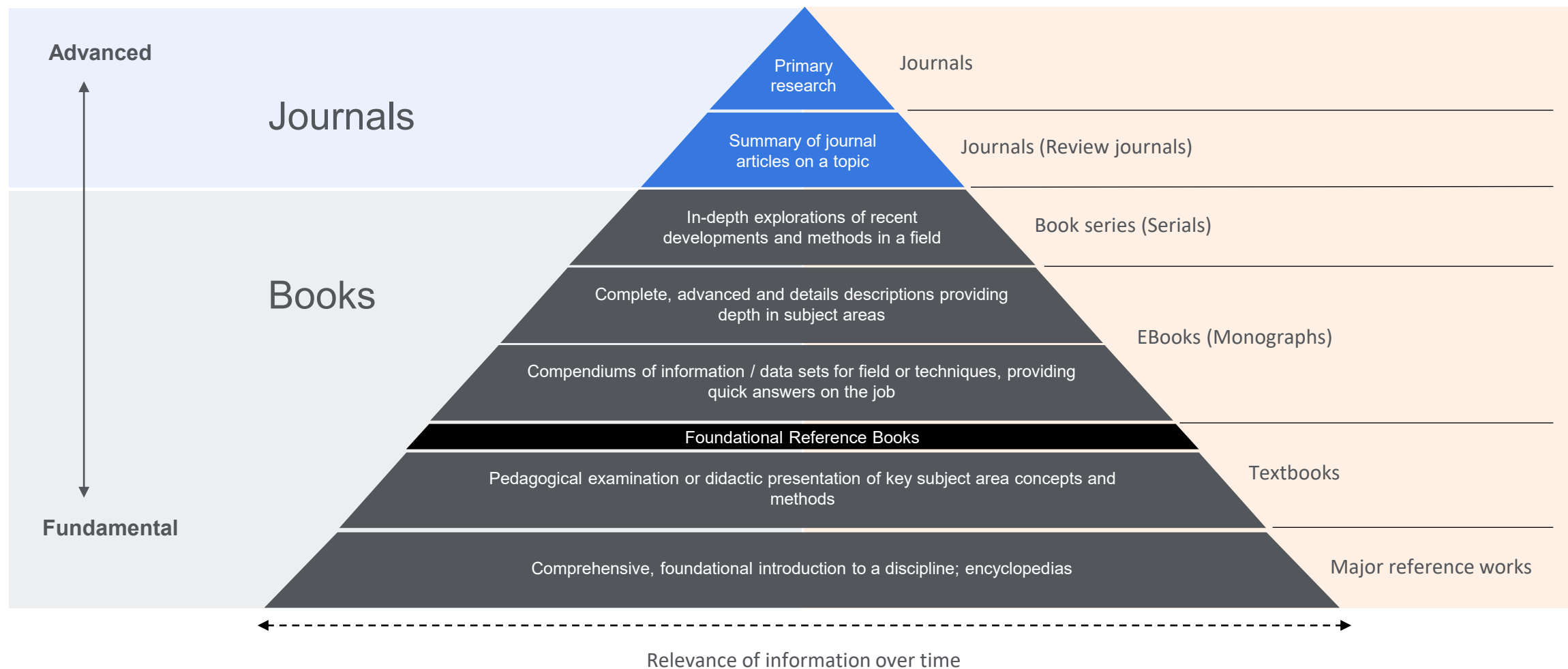


>600 open access publications



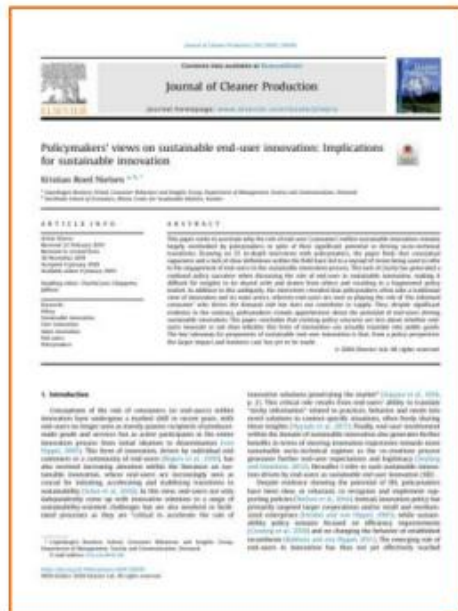
>3.3M open access articles

ScienceDirect supports all stages of learning



Original Research Articles

- Complete report on original research
- Typically 8-10 pages, 5 figures, 25 references
- Can be found in OA or non-OA journal
- Good way to build a scientific research career



Short Communications

- Quick and early communications of significant, original advances, usually claiming certain results.
- Much shorter than full articles.
- Appear under many names, such as letter papers, preliminary notes, notes, etc.



Review Papers

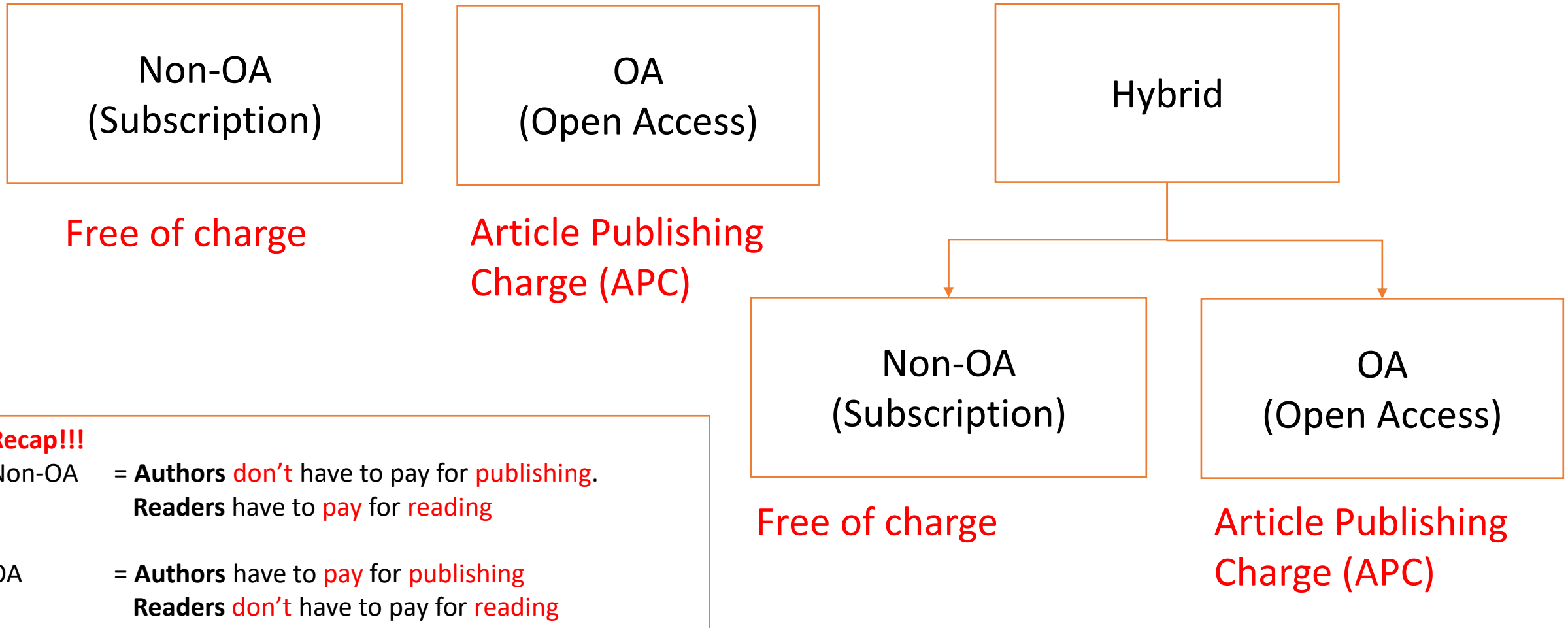
- Critical synthesis of a specific research topic
- Typically 10+ pages, 5+ figures, 80 references
- Typically solicited by journal editors
- Good way to consolidate a scientific research career



What are on ScienceDirect? Recap!!!

Types of content : OA vs Non-OA

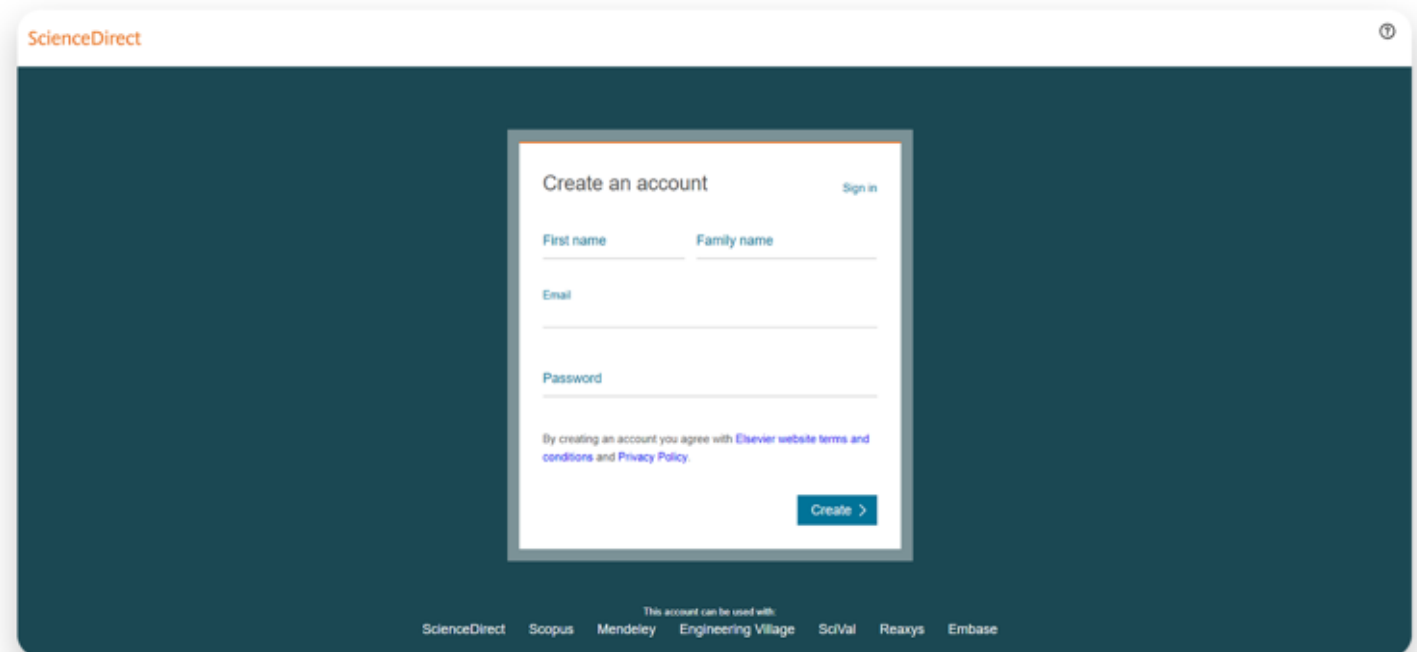
*OA= Open Access and *Non-OA= Subscription



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With a ScienceDirect account, you unlock features specifically designed to support your research goals. Give us a few details, and your account lets you:

- Set up alerts for searches, journals and book series
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A screenshot of the ScienceDirect website's account creation page. The page has a dark teal background. At the top left is the "ScienceDirect" logo. In the center is a white form titled "Create an account" with a "Sign in" link to the right. The form contains fields for "First name", "Family name", "Email", and "Password". Below these fields is a line of text: "By creating an account you agree with Elsevier website terms and conditions and Privacy Policy." At the bottom right of the form is a blue button labeled "Create >". At the very bottom of the page, there is a small text line: "This account can be used with:" followed by links to "ScienceDirect", "Scopus", "Mendeley", "Engineering Village", "SciVal", "Reaxys", and "Embase".

Introducing to Sciencedirect



Search

Now that you're on ScienceDirect, it's time to look around.

The ScienceDirect search functionality offers a multitude of search fields, filters and alerts to focus your search and improve your workflow. First, choose the search technique you prefer.

If you want a broad search that you can filter afterwards, head to the search bar for a quick search:

A screenshot of the ScienceDirect search bar interface. The top bar includes the ScienceDirect logo, a "Journals & Books" link, a help icon, a user profile icon for "Yoottapong Klinthongchai" with initials "YK", and a search icon. Below this is a large search input area with the text "Search for peer-reviewed journal articles and book chapters (including open access content)". At the bottom, there are several search filters: "Keywords", "Author name", "Journal/book title", "Volume", "Issue", and "Page". To the right of these filters is a magnifying glass icon and the text "Advanced search".

ScienceDirect[®]

Journals & Books

Yoottapong Klinthongchai YK

Search for peer-reviewed journal articles and book chapters (including open access content)

Keywords Author name Journal/book title Volume Issue Page

Advanced search

Enter keywords, an author name, or the title of a journal or book to get started.

Search

You might want to begin with a narrow search instead, so click on Advanced Search where you'll see how easy it is to get specific with the new open-design form:

- Search by author affiliation or article type
- Filter for open access/open archives articles
- Check out suggested publications
- Filter for volume/issue number in journal/book searches
- Set search alerts
- Notice access/entitlement icon on each article
- Download search alerts list as a .CSV

Advanced Search

[Search tips](#) ?

Find articles with these terms

In this journal or book title

Year(s)

Author(s)


Author affiliation

Volume(s)

Issue(s)

Page(s)

▼ Show all fields

Search 

Use the filter to focus more on specific area

Find articles with these terms

1

Input the keyword

bullying prevention

Q

Advanced search

8,703 results

Set search alert

Refine by:

Years

2023 (40)

2022 (945)

2021 (784)

Show more

Article type

Review articles (1,201)

Research articles (5,040)

Encyclopedia (271)

Book chapters (911)

Show more

Publication title

Children and Youth Services Review (376)

Journal of Adolescent Health (363)

Child Abuse & Neglect (356)

Show more

Subject areas

Medicine and Dentistry (5,377)

Psychology (3,561)

Social Sciences (3,072)

Show more

Access type

Open access & Open archive (1,093)

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Research article

Full text access

3

Article detail

Title

Journal

Authors

1

Implementation and evaluation of the Youth Police Academy school bullying prevention program in South Korea

International Journal of Educational Research, 26 September 2021, ...

You-Kyung Han, Aeri Song, Su Jung Um

View PDF

Abstract

Extracts

Figures

Export

2

The cost-effectiveness of a school-based intervention for bullying prevention: An Australian case study

Mental Health & Prevention, 26 October 2021, ...

Long Khanh-Dao Le, Lidia Engel, ... Cathrine Mihalopoulos

View PDF

Abstract

Extracts

Figures

Export

3

Review article

Full text access

A meta-analysis of the outcomes of bullying prevention programs on subtypes of traditional bullying victimization: Verbal, relational, and physical

Aggression and Violent Behavior, 30 July 2020, ...

Reeve S. Kennedy

View PDF

Abstract

Extracts

Figures

Export

4

Research article

Full text access

Gender differences in outcomes of bullying prevention programs: A meta-analysis

Children and Youth Services Review, 24 September 2020, ...

Reeve S. Kennedy

View PDF

Abstract

Extracts

Figures

Export

5

Conference abstract

Full text access

20.3 School-Community Collaborative Approaches to Bullying Prevention and Intervention

Journal of the American Academy of Child & Adolescent Psychiatry, 12 October 2022, ...

Colleen Cicchetti

View PDF

Export

6

Research article

Open access

Development and experimental validation of a dataset of 360°-videos for facilitating school-based bullying prevention programs

Computers & Education, 28 October 2020, ...

Miguel Barreda-Ángeles, Maria Serra-Blasco, ... Narcís Cardoner

View PDF

Abstract

Extracts

Figures

Export

sorted by relevance | date

This study demonstrates the effectiveness of experimental research design, pre-test and post-test of the study reveal that the community-based interventions towards victims, anti-bullying attitudes, and social skills were more effective for female participants than policy-makers and program developers.

... This study demonstrates the effectiveness of the intervention ... prevention ...

The Ministry of Education

The National Police Agency

Department of Education, Office of Education

Institute of School Violence Prevention

17 metropolitan and provincial offices of education across the nation

Local schools

This study demonstrates the effectiveness of the Youth Police Academy bullying prevention program using a sample of 1649 students. Applying a semi-experimental research design, pre-test and post-test surveys were administered to an experimental group ($N = 1,027$) and a control group ($N = 622$). The results of the study reveal that the community-based anti-bullying program targeting bystanders had a positive impact in four areas: bystander indicators, empathy towards victims, anti-bullying attitudes, and coping responses to observations of bullying. Regarding the gender effect, the results show that the YPA program was more effective for female participants in decreasing reinforcer behaviors. We then explored the implications of the results and proposed suggestions for policy-makers and program developers committed to bullying prevention.

... This study demonstrates the effectiveness of the Youth Police Academy *bullying prevention* program using ..., and coping responses to observations of *bullying*.
... *prevention*. ...

[illegible]

Research Workflow : ScienceDirect

Outline

Outline

Highlights

Abstract

Keywords

1. Introduction

2. Methods

3. Results

4. Discussion

5. Conclusions


Funding

Acknowledgement

References

Show full outline

Figures (2)



Tables (9)

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Table 2

Table 3


Table 4


Table 5

Table 6


Show all tables

Journal

 International Journal of Educational Research
Volume 110, 2021, 101881



Implementation and evaluation of the Youth Police Academy school bullying prevention program in South Korea

You-Kyung Han ^a, Aeri Song ^b, , Su Jung Um ^{b, *}

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Cite

<https://doi.org/10.1016/j.ijer.2021.101881>

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Highlights


- Participation in a role-playing activity builds empathy for victims.
- The Youth Police Academy (YPA) program promotes anti-bullying attitudes.
- The YPA program cultivates effective strategies to cope with witnessing bullying.
- The YPA program was more effective in lowering reinforcer behaviors in females.

Abstract


This study demonstrates the effectiveness of the Youth Police Academy bullying prevention program using a sample of 1649 students. Applying a semi-experimental research design, pre-test and post-test surveys were administered to an experimental group (N = 1,027) and a control group (N = 622). The results of the study reveal that the community-based anti-bullying program targeting bystanders had a positive impact in four areas: bystander indicators, empathy towards victims, anti-bullying attitudes, and coping responses to observations of bullying. Regarding

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1


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Conclusions

Columnar neurons from the second optic neuropil are likely the main plastic locus responsible for the modifications in animal behavior when confronted with rapidly repeated object motion. Our results demonstrate that visually guided behaviors can be determined by neural plasticity that occurs surprisingly early in the visual pathway.

<

Previous article in issue

Next article in issue

>

Introduction

Motion vision provides essential cues for a wide variety of animal behaviors. It originated to fulfill two essentially distinct behavioral tasks. One task, which is based on the analysis of panoramic optic flow, is to inform the animal about its own movements. The other task, which is based on the processing of focal motion cues, is to allow the animal to know about the movement of prey, predators, and conspecifics. Because animal navigation imply sustained analysis of the optic flow, the visual processing involved in this task shows little change upon repeated or continuous stimulation. In contrast, behavioral and neuronal responses to repeated object motion often show fast and profound decline. Such decline, in the form of either habituation [1] or more-complex associative learning processes [2], represents constitutive mechanisms of an animal's adaptability [2].

The arthropod neural systems that have been investigated intensively and that are used to investigate object or target visual search are those that contain figure detection (FD) cells in the blowfly [4]; the system that contains small target

Find articles with these terms

associative learning

Q

Advanced search

861,636 results

Set search alert

Refine by:

Years

☐ 2024 (5)

☐ 2023 (16,156)

☐ 2022 (79,329)

Show more

Article type

☐ Review articles (77,867)

☐ Research articles (582,340)

☐ Encyclopedia (12,663)

☐ Book chapters (66,893)

Show more

☐ Download selected articles

Export

☐ Research article

Full text access

1 The relationship between multisensory associative learning and multisensory integration

Neuropsychologia, 22 July 2022, ...

Sébastien A. Lauzon, Arin E. Abraham, ... Ryan A. Stevenson

View PDF

Abstract

Extracts

Figures

Export

☐ Research article

Open access

2 Taste-immune associative learning amplifies immunopharmacological effects and attenuates disease progression in a rat glioblastoma model

Brain, Behavior, and Immunity, 14 September 2022, ...

Susann Hetze, Lennart Barthel, ... Martin Hadamitzky

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Abstract

Graphical Abstract

Extracts

Figures

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- The user's next move is anticipated and their need to visit other platforms is removed

Gain more chemical insights with the integration of Reaxys reactions information on the article pages

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Tetrahedron
Go to Tetrahedron on ScienceDirect
Volume 36, 1 September 2008, Pages 8553-8557

Room temperature synthesis of metal-organic frameworks: MOF-5, MOF-74, MOF-177, MOF-199, and IRMOF-0

David J. Tranchesi, Joseph R. Hunt, Omar M. Yaghi

Abstract
Room temperature synthesis of metal-organic frameworks (MOFs) has been developed for four well-known MOFs: MOF-5, MOF-74, MOF-177, and MOF-199. A new isoreticular metal framework (IRMOF), IRMOF-0, having the same cubic topology as MOF-5, has been synthesized from acetylenedicarboxylic acid using this method to accommodate the thermal sensitivity of the linker. Despite acetylenedicarboxylate being the shortest straight linker that can be made into an IRMOF, IRMOF-0 forms a doubly interpenetrating structure, owing to the rod-like nature of the linker.

Substances (7)
Generated by Reaxys, an expert-curated chemistry database.

Part of special issue
2007 Tetrahedron Prize for Creativity in Organic Chemistry. Synthetic NanoSystems and NanoMachinery. Professor Sir Fraser Stoddart

Reaxys substance information

zinc(II) nitrate

Other chemical names
zinc nitrate
 $\text{Zn}(\text{NO}_3)_2$
zinc dinitrate

Molecular formula
 $\text{N}_2\text{O}_6\text{Zn}$

Molecular weight
189.4

CAS Registry Number
10196-18-6

Suppliers Druglikeness Reactions

View substance in Reaxys

Available in Reaxys

Reaxys

Quick search Query builder Results Retrosynthesis History

1,913 Reactions out of 2,577 Documents, containing 3,627 Substances, 900 Targets

0 selected Limit To Exclude Export Hide Conditions

Reaction ID: 139970

Conditions	Yield
With sodium In diethyl ether; tert-butyl alcohol Inert atmosphere; Reflux;	97%
With sodium; tert-butyl alcohol In tetrahydrofuran at 20°C;	96.5%
With ethanol; sodium In benzene Inert atmosphere; Reflux;	96%

+ Show all hits



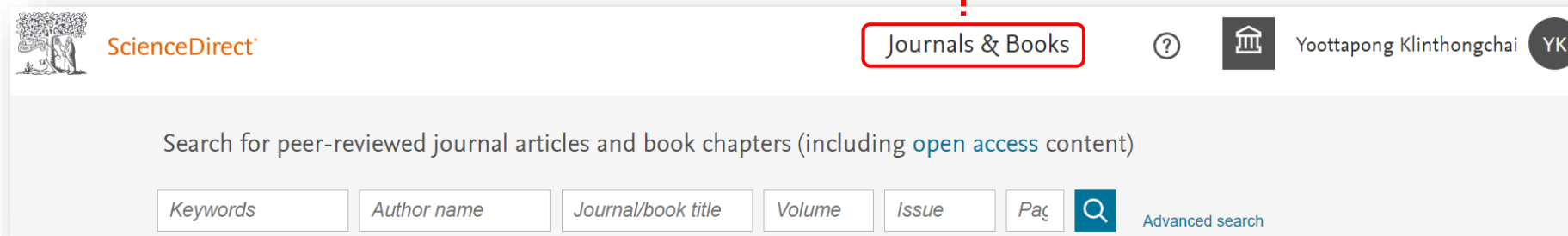
Uncover valuable insights

- Easily view relevant reaction and mechanism content, and continue to Reaxys for more details in a single click

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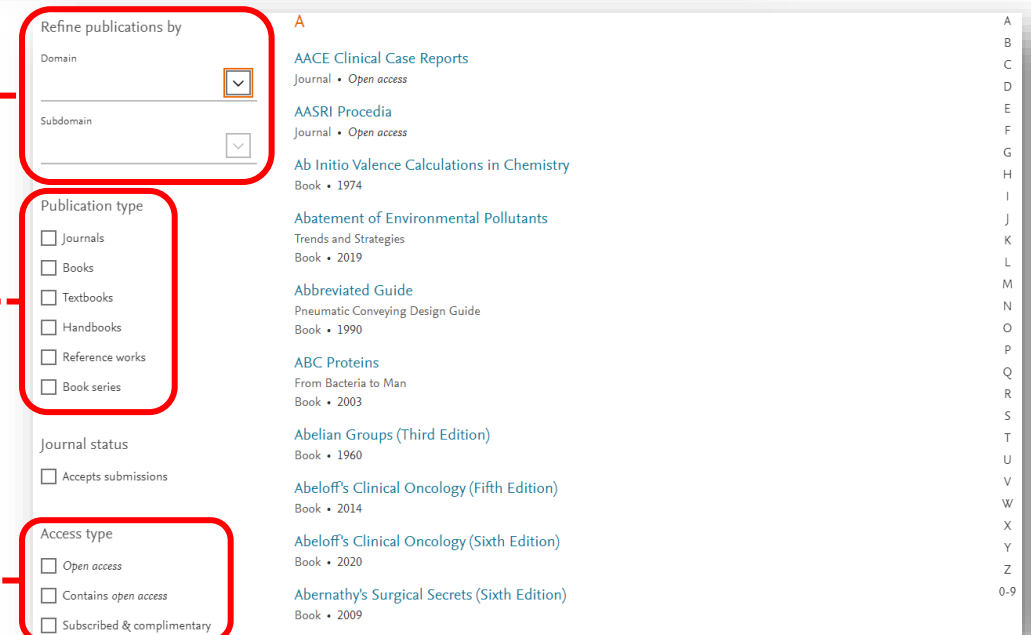
Browsing

If you want to begin your ScienceDirect experience by browsing through the content instead of searching, just click on Journals and Books on the homepage.



This modernized browse page has enhanced search capabilities and simpler URL composition.

- Refine publications by domain and sub-domain
- Select the type of publications
- Choose the type of access

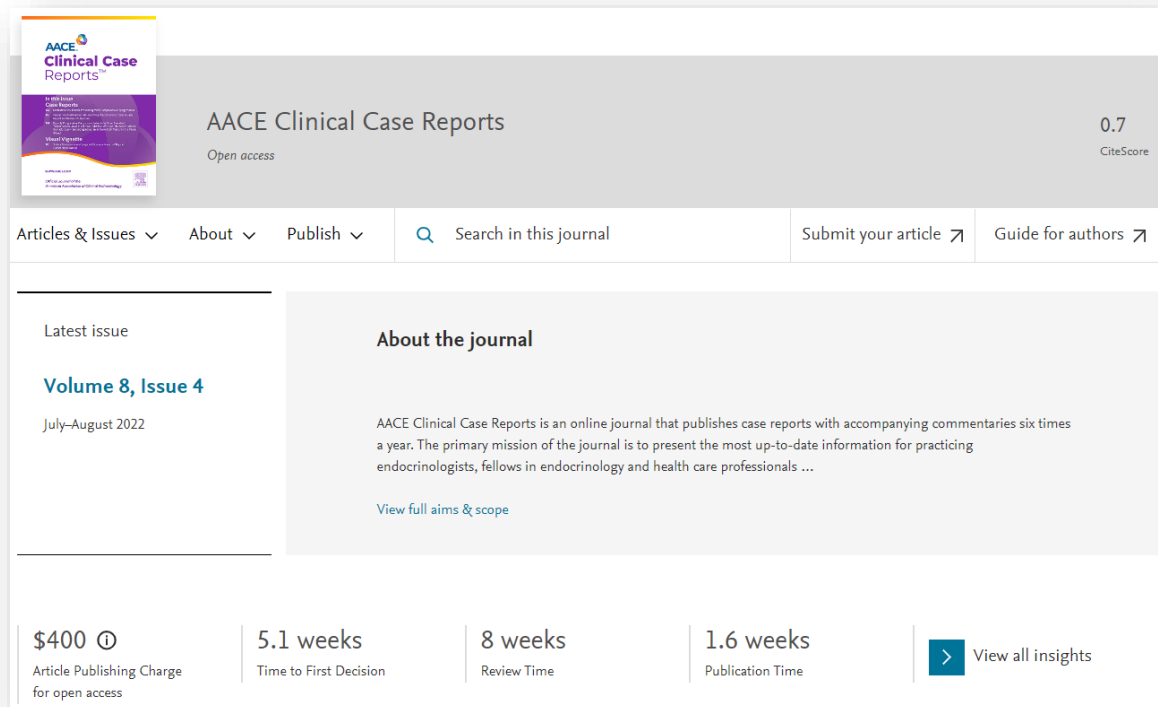


Journal homepages easier to evaluate

When your research takes you to the homepage of a journal quickly determines its relevance to your needs. You spend less time trying to find the right information – they load within one second – and more time using what you find in your workflow.

With the “card concept”, a series of rectangular panels containing specific information types, you can find journal information and related links more easily than ever. The new design also improves accessibility for users with disabilities.

- Improved navigation allows you to discover relevant content faster
- Access indicators help identify available content, including open access



The screenshot displays the journal homepage for AACE Clinical Case Reports. The header features the journal title, 'Open access' status, and a CiteScore of 0.7. A navigation bar includes links for 'Articles & Issues', 'About', 'Publish', a search bar, 'Submit your article', and 'Guide for authors'. The main content area is divided into two columns: 'Latest issue' (Volume 8, Issue 4, July–August 2022) and 'About the journal' (describing the journal's mission). A footer section provides key metrics: Article Publishing Charge (\$400), Time to First Decision (5.1 weeks), Review Time (8 weeks), and Publication Time (1.6 weeks), along with a 'View all insights' button.

Metric	Value
Article Publishing Charge for open access	\$400
Time to First Decision	5.1 weeks
Review Time	8 weeks
Publication Time	1.6 weeks

Find deeper insights about Journals through the Journals Insight Page



Improving Author Experience

- Find Key metrics and deeper insights about Journals with the new Journals Insights page.
- This feature enables end-users to make informed decisions about the Journal during their article submission process.

The screenshot shows the Chemosphere journal website. The 'Insights' section is highlighted, displaying key metrics for the journal:

- Article Publishing Charge for open access:** \$3610*
- Time to First Decision:** 2.8 weeks
- Publication Time:** 0.7 weeks

The page also includes a 'Latest issue' section for Volume 321, 'In progress' (April 2023), and a 'View all insights' button. The footer mentions 'Co-Editors-in-Chief' and a link to 'View full Editorial Board'.

The screenshot shows the Chemosphere journal website with the 'Journal Insights' dropdown menu open. The menu options are:

- Aims and scope
- Editorial board
- Journal insights** (highlighted with a red box)
- Abstracting & indexing
- News
- Announcements
- Conferences

The main content area displays the following information:

- ISSN:** Online ISSN: 1879-1298 | Print ISSN: 0045-6535
- Subject areas:** Environmental Science (General), Environmental Chemistry
- Impact:** CiteScore 11.7, Impact Factor 8.943
- Article publishing charge:** \$3610 (Article publishing charge for open access)
- Publishing timeline:** Time to First Decision 2.8 weeks, Publication Time 0.7 weeks
- Abstracting and indexing:** PubMed/Medline, Environmental Periodicals Bibliography, Analytical Abstracts, Aqualine Abstracts, BIOSIS Citation Index, Elsevier BIOBASE, Cambridge Scientific Abstracts, Current Contents - Agriculture, Biology & Environmental Sciences, Chemical Abstracts, Embase, Pascal Francis, Science Citation Index, Web of Science, Research Alert, Scopus

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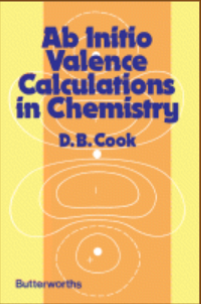
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Authors:
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Chemical engineering 1,369

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Engineering

Food science

Immunology and microbiology

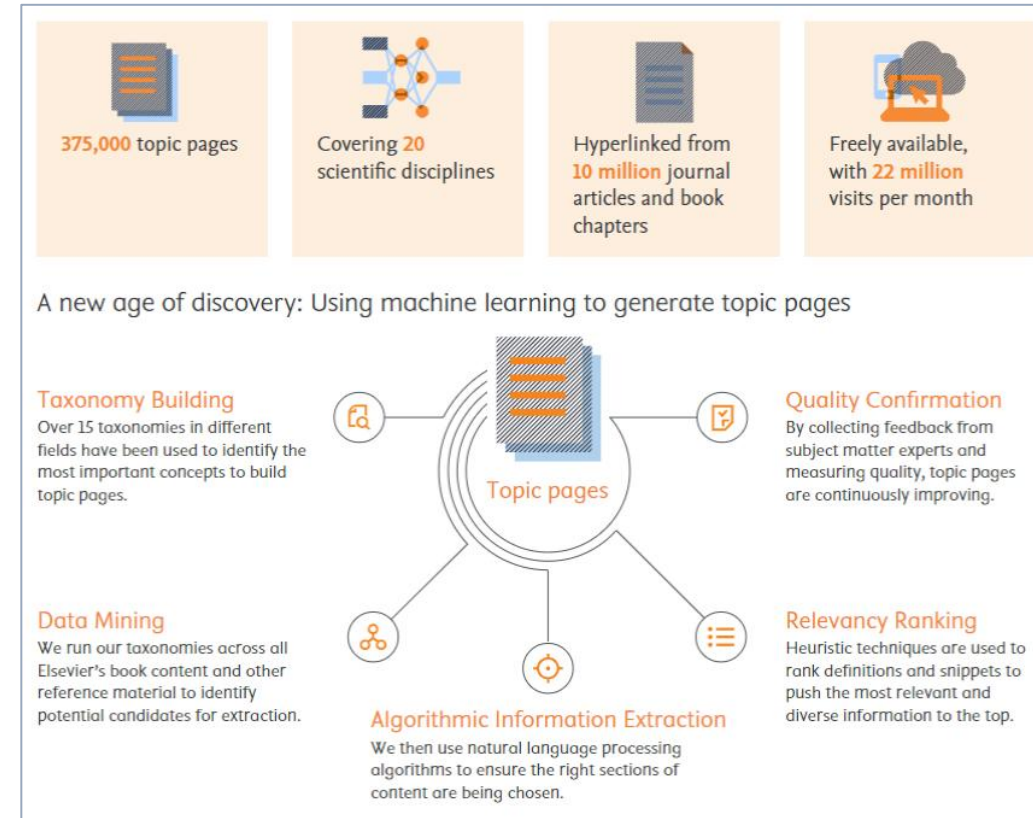
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- Over **22 million** visits per month, **2nd** most visited after article pages

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ScienceDirect Topics have become a popular feature for researchers and students looking to broaden their understanding of scholarly and technical terms. Topics are especially useful for onboarding in interdisciplinary research or just to learn or better understand a new concept.

Topics reveal succinct, selected contextual information from reference books, valuable content when and where you needed it in your natural research workflow. You can access Topics via ScienceDirect and also through search engines such as Google.

When working in ScienceDirect, simply hover over a highlighted word in the article you're reading. Via hyperlink, you can immediately go to a page with authoritative and foundational content for that term.

system processes as we have done over the past century. Understanding the relationship between molecular structure and function is a core outcome for learning and applying chemistry in curriculum mapping frameworks such as the ACS Anchoring Concepts Content Maps for general and inorganic chemistry [33].

Inorganic Chemistry

In inorganic chemistry, mass spectrometry is most often used to determine the molar mass of compounds.

From: *Environmental Inorganic Chemistry for Engineers*, 2017

Related terms:

Solute, Ligand, Metal Ion, Cation, Inorganic Substance, Ion, Nomenclature, Non-Metal, Rock Glacier

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[About this page](#)

Inorganic Chemistry

DR James G. Speight, in *Environmental Inorganic Chemistry for Engineers*, 2017

2.1 Introduction

If organic chemistry is defined as the chemistry of hydrocarbon compounds and their derivatives, *inorganic chemistry* can be described very generally as the chemistry of noncarbon compounds or as the chemistry of *everything else*. This includes all the remaining elements in the periodic table (Figs. 2.1 and 2.2) and some compounds of carbon (such as *carbon monoxide* (CO) and carbon dioxide (CO₂)).

Groundwater Chemistry

Charles R. Fitts, in *Groundwater Science* (Second Edition), 2013

10.4.3 Presenting Inorganic Data Graphically

Inorganic chemistry data are typically reported in tables of numbers, which can be mind-numbing if there is a large amount of data. Some graphical methods of data presentation are helpful for quick inspection of the results of numerous analyses and for detection of general trends. A few of the most common graphical methods are presented here. Hem (1985) provides a more detailed source on this topic.

Introducing to Sciencedirect



ScienceDirect topics expand your knowledge with foundational content

You'll see

- A short definition
- Related terms
- Excerpts from relevant book content

The screenshot shows a ScienceDirect topic page for 'Inorganic Chemistry'. Red boxes highlight the following elements:

- Definition:** A box containing a short definition: 'In inorganic chemistry, mass spectrometry is most often used to determine the molar mass of compounds.' and the source: 'From: Environmental Inorganic Chemistry for Engineers, 2017'.
- Related terms:** A box listing related terms: 'Solute, Ligand, Metal Ion, Cation, Inorganic Substance, Ion, Nomenclature, Non-Metal, Rock, Glacier' and a link to 'View all Topics >'.
- Actions:** A row of icons for '+ Add to Mendeley', 'Download as PDF', 'Set alert', and 'About this page'.
- Excerpt:** A box containing an excerpt from 'Environmental Inorganic Chemistry for Engineers, 2017' by DR James G. Speight, specifically the '2.1 Introduction' section.

You have the option to dig deeper by clicking to read an entire chapter.

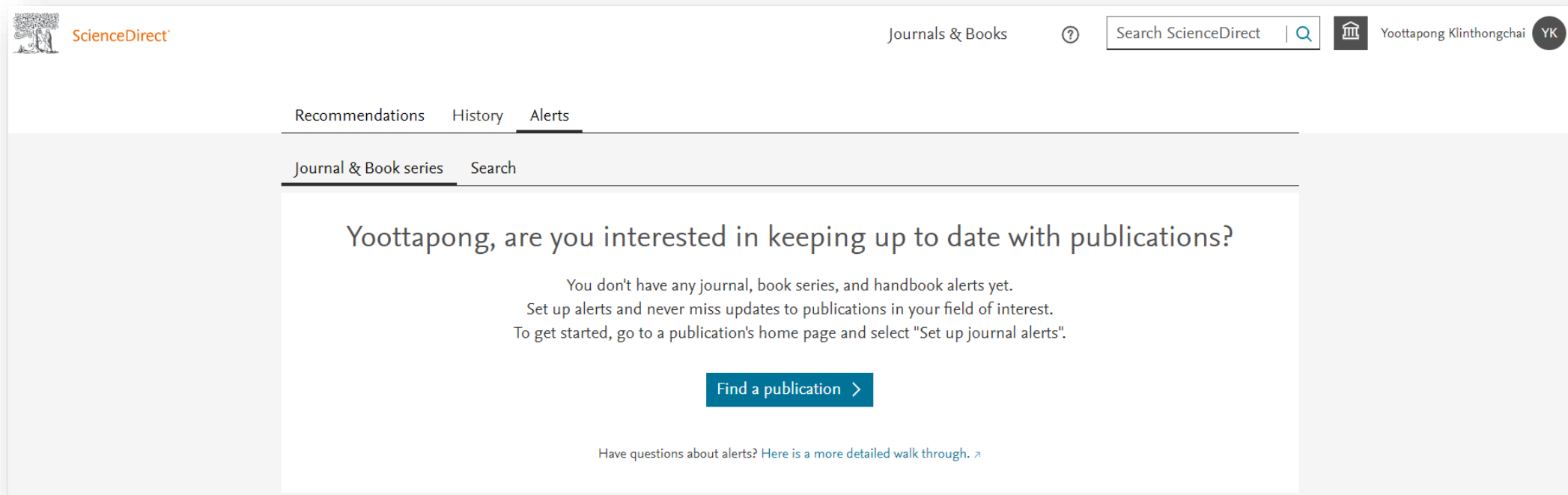
If you're using Google or another search engine to get more information about a term, just enter the term and ScienceDirect, and it comes up. With enhanced taxonomy across all 20 Topic domains, Topic pages are available for many disciplines including:

- Neuroscience
- Biomedical Sciences
- Life Sciences
- Chemistry
- Chemical Engineering
- Computer Science
- Engineering
- Mathematics
- Physics and Astronomy
- Economics, Econometrics and Finance
- Food Science
- Materials Science and Materials Engineering
- Earth and Environmental Sciences
- Psychology
- Social Sciences

Schedule alerts about new relevant research

Unlike Recommendations, Alerts let you know about only new research that meets your criteria.

Once you've either searched in ScienceDirect or browsed publications, you can choose to sign up for alerts. Go to 'My alerts', then click on either 'Journal & Book series', 'Search' or both. You can select a publication or carry out a search to set the alerts you want.



The screenshot shows the ScienceDirect website interface. At the top, there is a navigation bar with the ScienceDirect logo, a search bar, and a user profile for 'Yootapong Klinthongchai'. Below the navigation bar, there are tabs for 'Recommendations', 'History', and 'Alerts'. Under the 'Alerts' tab, there are sub-tabs for 'Journal & Book series' and 'Search'. The main content area displays a message to the user: 'Yootapong, are you interested in keeping up to date with publications?'. It states that the user does not have any alerts yet and provides instructions on how to set up alerts. A blue button labeled 'Find a publication >' is prominently displayed. At the bottom, there is a link for more information: 'Have questions about alerts? Here is a more detailed walk through.'.

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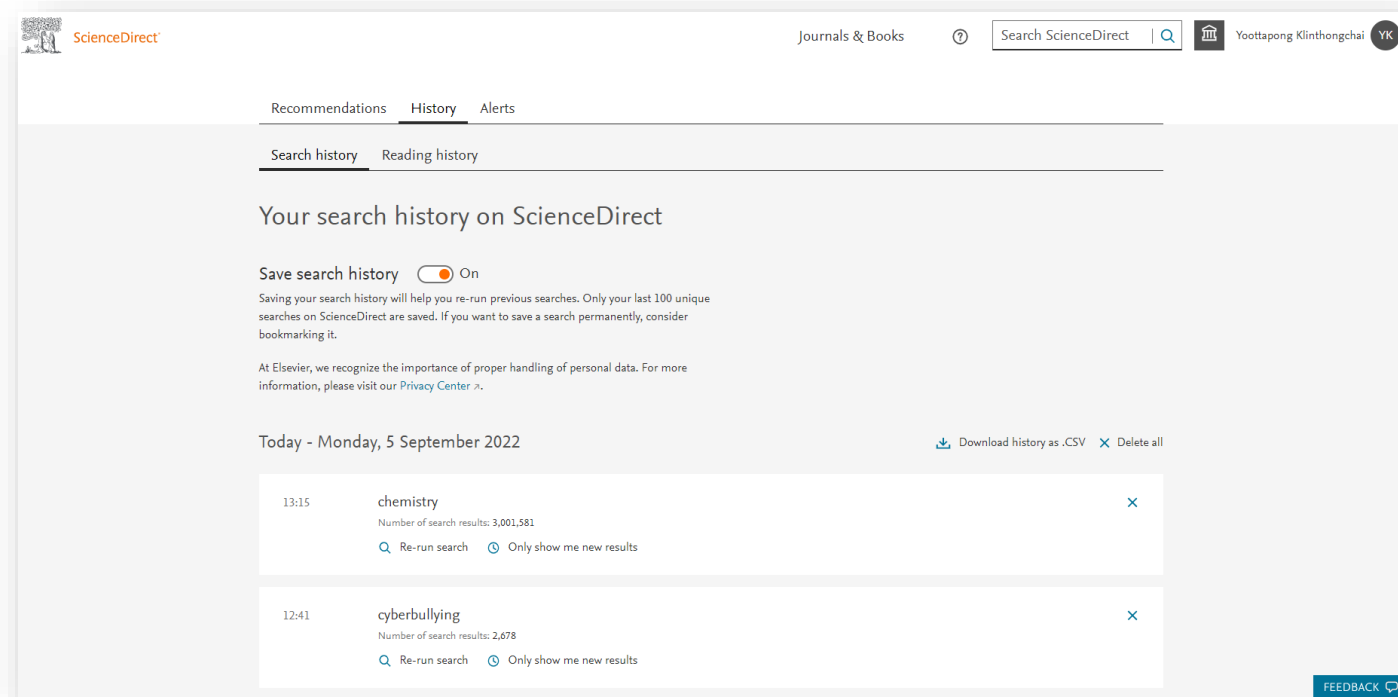


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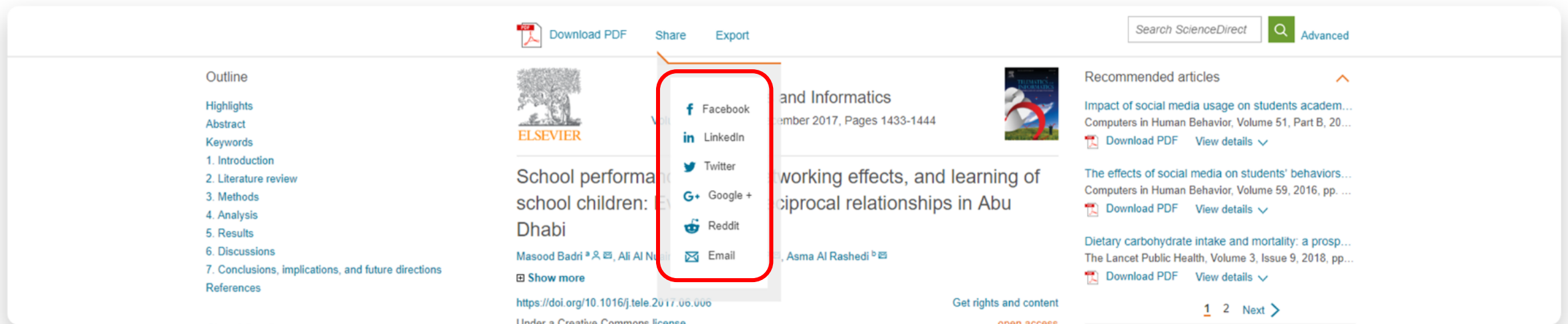


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The screenshot displays a ScienceDirect article interface. On the left, a sidebar contains links for 'Outline', 'Highlights', 'Abstract', 'Keywords', and a numbered list of sections from '1. Introduction' to '7. Conclusions, implications, and future directions', followed by 'References'. The main content area features the Elsevier logo, the article title 'School performance of school children: A study in Dhahi', and the authors 'Masood Badri *✉, Ali Al Naimi'. A red box highlights the 'Share' button, which opens a dropdown menu with icons and labels for Facebook, LinkedIn, Twitter, Google+, Reddit, and Email. To the right of the article, there is a 'Download PDF' button, a search bar with 'Search ScienceDirect' and an 'Advanced' search option, and a 'Recommended articles' section listing related papers with 'Download PDF' and 'View details' links. At the bottom, there are page numbers '1 2' and a 'Next' button.

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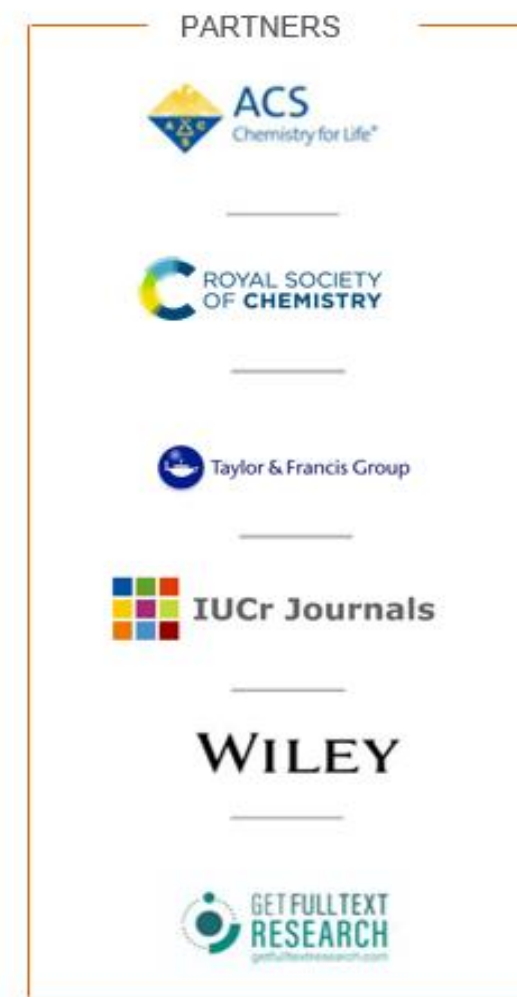
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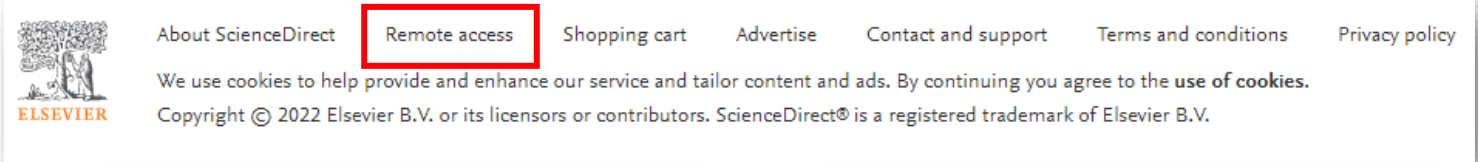
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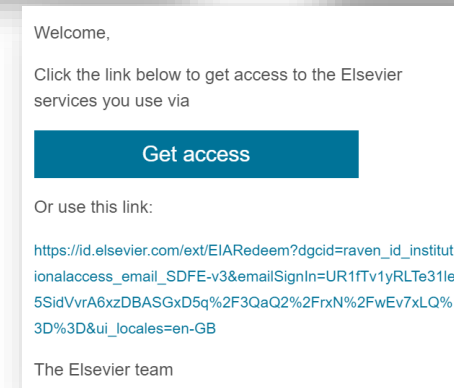
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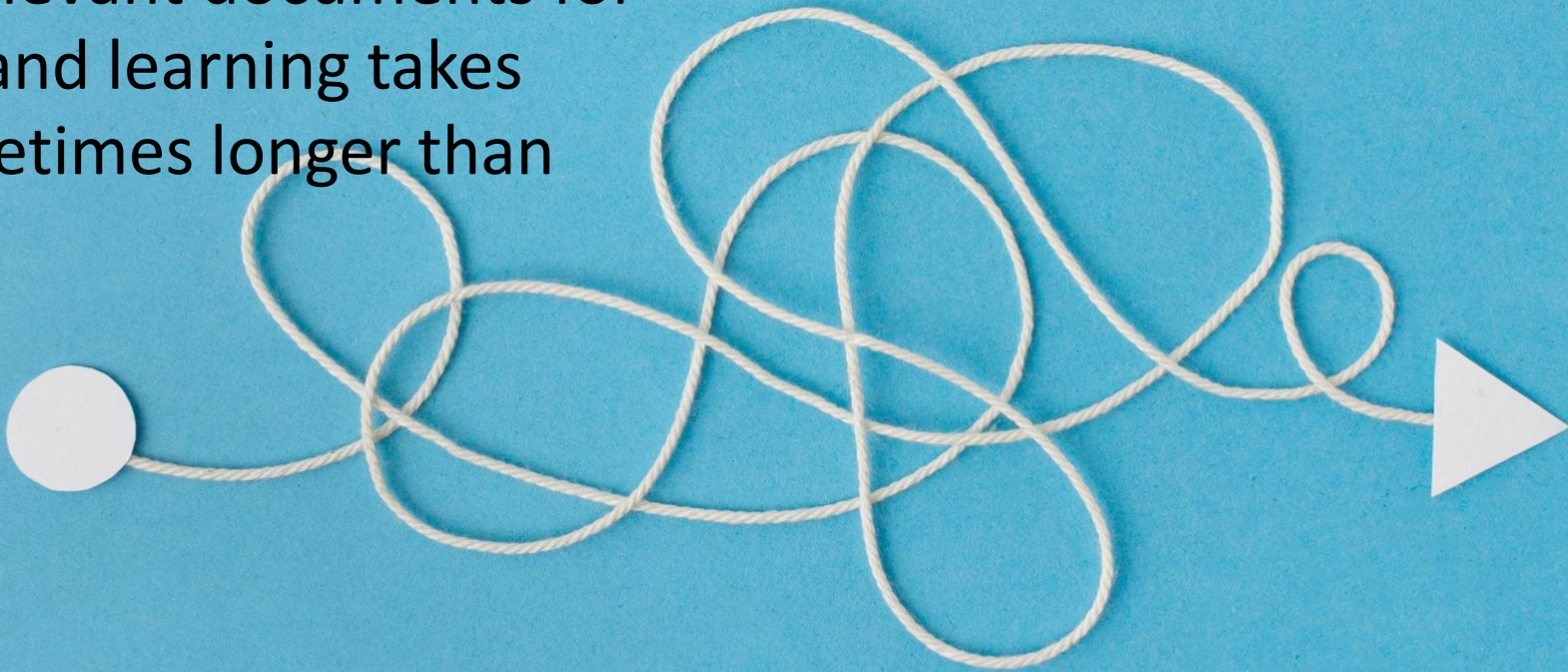
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Computers and Education: Artificial Intelligence, June 2025

Mátyás Turós, Róbert Nagy, Zoltán Szűts

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Measuring the influence of transformational leadership on interplay between artificial intelligence, job meaningfulness and turnover intentions: Observations from Indian IT sector

Journal of Strategy & Innovation, May 2025

Rai Shweta, Aneesya Panicker

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Is new technology always good? Artificial intelligence and corporate tax avoidance: Evidence from China

International Review of Economics & Finance, March 2025

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The International Journal of Management Education, July 2025

Ebru Polat, Muhammed Zincirli, Erdal Zengin

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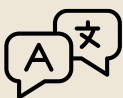
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Summary

Methods for DNA Extraction

To separate DNA, several methods can be employed, each with its own advantages and specific applications. Here are the primary techniques:

1. Organic Extraction (Phenol-Chloroform Method:

- **Process:** Involves a multistep liquid chemical process using phenol and chloroform.
- **Advantages:** Produces high yield and very clean double-stranded DNA.
- **Applications:** Suitable for various biological specimens ([da Silva et al., 2023](#)), ([Elkins, 2013](#)).

2. Inorganic Methods (Salting Out and Proteinase K Treatment:

- **Process:** Uses simple and cheap one-tube extraction where Mg^{2+} binds to resin beads.
- **Advantages:** Yields single-stranded DNA.
- **Applications:** Commonly used for its simplicity and cost-effectiveness ([da Silva et al., 2023](#)), ([Elkins, 2013](#)).

Reference preview



Comparison of DNA extraction methods for COVID-19 host genetics studies

Ronaldo Celerino da Silva(Conceptualization Formal analysis Investigation Methodology Validation Writing – original draft), Suelen Cristina de Lima(Investigation Methodology Validation Writing – original draft), Wendell Palôma Maria dos Santos Reis(Formal analysis Investigation Methodology Validation), Jurandy Júnior Ferraz de Magalhães(Data curation Investigation Validation), Ronaldo Nascimento de Oliveira Magalhães(Writing – review & editing), Brijesh Rath(Writing – review & editing), Alain Kohl(Visualization Writing – review & editing), Marcos André Cavalcanti Bezerra(Conceptualization Writing – review & editing), Lindomar Pena(Conceptualization Data curation Funding acquisition Project administration Resources Supervision Writing – review & editing) Huseyin Tombuloglu(Editor)

PLoS ONE • 2023

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Answer found in section: "Introduction"

A good extraction method needs to be safe, fast to perform and generate genomic DNA with good quality and in sufficient quantity for downstream analyses [11–13]. The main DNA extraction techniques routinely used include organic extraction (phenol–chloroform method), nonorganic method (salting out and proteinase K treatment), adsorption-based methods (silica–gel membrane) and magnetic beads-based methods. These techniques allow consistent DNA isolation from several biological specimens, but they differ in both the quality and the quantity of DNA yielded [11, 13, 14].

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M. Siles-Lucas, A. Casulli, ... N. Müller

Advances in Parasitology • 2017

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DNA extraction methods vary based on the sample type and include classic phenol-chloroform extraction and commercial DNA isolation kits. The choice of method depends on the specific biological matrix being analyzed.

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Forensically informative nucleotide sequencing (FINS) for the authentication of Chinese medicinal materials

Ming Li, Kalin Yan-Bo Zhang, ... Pang-Chui Shaw

Chinese Medicine • 2011

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DNA extraction is an invasive process that uses physical disruption and chemical methods to isolate DNA from tissues. Common techniques include CTAB and phenol/chloroform extraction, often used in commercial kits.

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Summary

ขั้นตอนการสกัด DNA ด้วยเทคนิคฟิโนล-คลอโรฟอร์ม

หลักการพื้นฐาน:

- **การแยกชั้น:** ฟิโนล-คลอโรฟอร์มจะทำให้โปรตีนและลิพิดตกตะกอนในชั้นอินทรีย์ ขณะที่ DNA จะอยู่ในชั้นน้ำด้านบนหลังการปั่นเหวี่ยง (Sharma et al., 2023), (Rezvantseva et al., 2024).

ขั้นตอนการสกัด:

1. เตรียมตัวอย่าง:

- นำตัวอย่างที่ถูกทำลายเซลล์หรือบดละเอียดใส่ในหลอดไมโครเซนตริฟิวจ์ (Sharma et al., 2023).
- เติมนิโนล-คลอโรฟอร์มในอัตราส่วน 1:1 โดยฟิโนลต้องปรับค่า pH เป็น 8.0 และเติมไอโซอะมิลแอลกอฮอล์ในคลอโรฟอร์ม (24:1) เพื่อป้องกันการเกิดฟอง (Sharma et al., 2023).

2. การผสมและปั่นเหวี่ยง:

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ARTICLE	EXPERIMENT / STUDY	GOAL	MATERIALS	METHODS	RESULTS	CONCLUSION	FEEDBACK
<div><div>Article</div><div>Synthesis and characterization of silver nanoparticles using crystal compound of sodium para-hydroxybenzoate tetrahydrate isolated from <i>Vitex negundo</i>. L leaves and its apoptotic effect on human colon cancer cell lines »</div><div>Prabhu Durai, Arulvasu Chinnasamy, ... Ashokkumar Thirunavukkarasu</div><div>European Journal of Medicinal Chemistry • Volume 84 • 2014</div><div>Export data (CSV)</div></div>	<div><div>Experiment / Study</div><div>Synthesis and characterization of silver nanoparticles</div></div>	<div><div>Goal</div><div>To synthesize and characterize silver nanoparticles (AgNPs) using crystal compound of sodium para-hydroxybenzoate tetrahydrate (SPHT) isolated from <i>Vitex negundo</i>. L leaves and study its apoptotic effect on human colon cancer cell lines.</div></div>	<div><div>Materials</div><div>Sodium para-hydroxybenzoate tetrahydrate (SPHT), 1 mM silver nitrate (AgNO3) solution</div></div>	<div><div>Methods</div><div>5 ml of SPHT (10 mg/10 ml) was added to 95 ml of 1 mM AgNO3 aqueous solution and incubated for 2 h at room temperature. Synthesis of SPHT-AgNPs was confirmed by the existence of prominent peak at 430 nm and color change from colorless to dark brownish yellow. The in vitro stability of SPHT-AgNPs was analyzed by monitoring the plasmon wavelength (λmax) and plasmon bandwidth (Δλ) in different temperatures (40, 60 and 80°C) and phosphate buffer solutions (pH 4, 5, 6, 8 and 9). The size, shape and morphology of SPHT-AgNPs were characterized using HRTEM, FESEM, EDAX, DLS and zeta potential analysis. FT-IR spectroscopy was used to examine the functional groups present in SPHT and SPHT-AgNPs.</div></div>	<div><div>Results</div><div>The SPHT-AgNPs were spherical in shape with a size range of 26-39 nm. The hydroxyl and carboxylic functional groups from SPHT were responsible for the reduction and stabilization of AgNPs. The SPHT-AgNPs exhibited high in vitro stability in different temperatures and pH conditions.</div></div>	<div><div>Conclusion</div><div>The SPHT was an effective reducing, stabilizing and capping agent in the synthesis of AgNPs. The SPHT and SPHT-AgNPs showed inhibitory effects on the proliferation of human colon cancer cell lines HCT15 and HT-29, and induced apoptosis and cell cycle arrest.</div></div>	<div><div>Feedback</div><div>How would you rate this summary? ☆☆☆</div></div>
	<div><div>Experiment / Study</div><div>Cell viability and apoptosis analysis</div></div>	<div><div>Goal</div><div>To evaluate the antiproliferative and apoptotic effects of SPHT and SPHT-AgNPs on human colon cancer cell lines HCT15 and HT-29.</div></div>	<div><div>Materials</div><div>Human colon cancer cell lines HCT15 and HT-29, MTT reagent, Annexin V-FITC/PI apoptosis detection kit</div></div>	<div><div>Methods</div><div>The inhibitory effects of SPHT and SPHT-AgNPs on HCT15 and HT-29 cells were determined by MTT assay. The cells were treated with different concentrations of SPHT and SPHT-AgNPs (2, 4, 6, 8 and 10 µg/ml) for 24 and 48 h. The apoptosis induced by SPHT and SPHT-AgNPs was quantitatively assessed using Annexin V-FITC/PI staining and analyzed by flow cytometry. The cell cycle distribution was also analyzed by flow cytometry.</div></div>	<div><div>Results</div><div>SPHT and SPHT-AgNPs induced a dose and time dependent inhibition of HCT15 and HT-29 cell proliferation. The IC50 values of SPHT on HCT15 and HT29 were 4 µg/ml and 2 µg/ml respectively at 48 h, while for SPHT-AgNPs the IC50 values were 8 µg/ml and 6 µg/ml respectively at 24 h. The Annexin V-FITC/PI staining showed that SPHT-AgNPs induced a higher percentage of early and late apoptotic cells compared to SPHT. The cell cycle analysis revealed that SPHT and SPHT-AgNPs induced cell cycle arrest in the G0/G1 phase.</div></div>	<div><div>Conclusion</div><div>SPHT and SPHT-AgNPs exhibited potent antiproliferative and apoptotic effects on human colon cancer cell lines HCT15 and HT-29. SPHT-AgNPs showed higher cytotoxic activity compared to SPHT.</div></div>	<div><div>Feedback</div><div>How would you rate this summary? ☆☆☆</div></div>
<div><div>Article</div><div>Investigating the cytotoxicity of iron oxide nanoparticles in in vivo and in vitro studies »</div><div>Sarieh Ghasempour, Mohammad Ali Shokrgozar, ... Mohsen Allpour</div><div>Experimental and Toxicologic Pathology • Volume 67 • 2015</div><div>Export data (CSV)</div></div>	<div><div>Experiment / Study</div><div>In vitro cell viability study</div></div>	<div><div>Goal</div><div>To evaluate the cytotoxicity of 200 and 400µg/ml modified and non-modified iron oxide nanorods on mouse fibroblast (L929) cells</div></div>	<div><div>Materials</div><div>L929 mouse fibroblast cells, Dulbecco's Modified Eagle Medium (DMEM), Fetal Bovine Serum (FBS), iron oxide nanorods</div></div>	<div><div>Methods</div><div>L929 cells were seeded in 96-well plates and exposed to 200 and 400µg/mL of modified and non-modified iron oxide nanorods for 24 hours. Cell viability was assessed using the MTT assay.</div></div>	<div><div>Results</div><div>Exposure to all concentrations of modified and non-modified nanorods significantly decreased cell viability compared to control. Increasing the concentration of non-modified nanorods from 200 to 400µg/mL significantly increased cell viability.</div></div>	<div><div>Conclusion</div><div>Modified nanorods had lower cytotoxicity compared to non-modified nanorods. The increase in cell viability with higher concentrations of non-modified nanorods was likely due to the release of iron from the nanoparticles.</div></div>	<div><div>Feedback</div><div>How would you rate this summary? ☆☆☆</div></div>
	<div><div>Experiment / Study</div><div>In vitro cell cycle analysis</div></div>	<div><div>Goal</div><div>To investigate the effect of 200µg/mL modified iron oxide nanorods on cell cycle parameters of L929 cells</div></div>	<div><div>Materials</div><div>L929 mouse fibroblast cells, 200µg/mL modified iron oxide nanorods</div></div>	<div><div>Methods</div><div>L929 cells were exposed to 200µg/mL modified iron oxide nanorods for 24 hours. Cell cycle distribution was analyzed using flow cytometry.</div></div>	<div><div>Results</div><div>Exposure to 200µg/mL modified nanorods increased cell granularity and decreased cell size, with 3.4% of cells undergoing apoptosis (sub-G0/G1 phase). The G0/G1 phase increased by 0.9% while the S and G2/M phases decreased by 3.1% and 0.5%, respectively.</div></div>	<div><div>Conclusion</div><div>Exposure to 200µg/mL modified iron oxide nanorods induced autophagy-related changes in cell morphology and a slight decrease in the S phase of the cell cycle, without significant effects on other cell cycle parameters.</div></div>	<div><div>Feedback</div><div>How would you rate this summary? ☆☆☆</div></div>
	<div><div>Experiment / Study</div><div>In vivo toxicity study</div></div>	<div><div>Goal</div><div>To evaluate the in vivo effects of 200µg/mL modified iron oxide nanorods on liver and kidney function in Wistar rats</div></div>	<div><div>Materials</div><div>Wistar rats, 200µg/mL modified iron oxide nanorods, 0.9% saline</div></div>	<div><div>Methods</div><div>Wistar rats were randomly divided into an experimental group (injected with 200µg/mL modified nanorods) and a control group (injected with saline). Blood samples were collected at 1 hour and 24 hours post-injection to measure liver enzymes (ALT, AST, ALP) and kidney function (BUN, creatinine) parameters. Histological analysis of the liver and kidney was also performed.</div></div>	<div><div>Results</div><div>There were no significant differences in liver and kidney function tests between the experimental and control groups at 1 hour and 24 hours post-injection. Serum iron levels were significantly higher in the experimental group at 24 hours compared to 1 hour. Histological analysis showed no changes in the morphology of the liver and kidney tissues.</div></div>	<div><div>Conclusion</div><div>A single intravenous injection of 200µg/mL modified iron oxide nanorods did not induce significant acute toxicity to the liver and kidney in Wistar rats within 24 hours, despite the observed increase in serum iron levels.</div></div>	<div><div>Feedback</div><div>How would you rate this summary? ☆☆☆</div></div>

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ARTICLE	EXPERIMENT / STUDY	GOAL	MATERIALS	METHODS	RESULTS	CONCLUSION
<div> Article</div> <div>Source prevention or end-of-pipe treatment? Green public procurement and corporate environmental investment strategies </div> <div>Renjie Zhang, Guiyi Zhu</div> <div>Journal of Environmental Management • Volume 379 • 2025</div> <div> Export data (CSV)</div>	<div> Empirical study on the relationship between GPP and corporate environmental investment strategies</div>	To investigate the impact of green public procurement (GPP) on corporate environmental investment strategies, specifically examining whether GPP promotes enterprises' preventive environmental investments or end-of-pipe treatment investments.	Manually collected data on corporate environmental investment, green public procurement data obtained through textual analysis techniques, financial data of listed companies from the China Stock Market and Accounting Research (CSMAR) database	1. Classify enterprises' environmental investment strategies into source prevention and end-of-pipe treatment based on the production stage involved. 2. Construct the GPP variable using textual analysis techniques to identify green procurement contracts. 3. Conduct regression analysis to examine the impact of GPP on the two types of environmental investment strategies, controlling for firm characteristics.	GPP significantly promotes enterprises' preventive environmental investments, but has no obvious effect on end-of-pipe treatment investments.	Enterprises obtaining green procurement orders tend to adopt a source prevention environmental investment strategy in response to increasing environmental pressures from GPP.

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International Journal of Information Management Data Insights

Volume 3, Issue 2, November 2023, 100205

How does AI drive branding? Toward an integrated theoretical framework for AI-driven branding

Maria DSouza Deryl  , Sanjeev Verma, Vartika Srivastava

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Highlights

- Artificial Intelligence transforms brands for universal

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Actions you could take:

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what is the research gap?

Research Gap

The present study fills the research gap by offering an integrated theoretical framework to explain AI-driven branding. Previous reviews have consolidated the academic contributions and thematically described the domain, but a comprehensive account of the theoretical underpinnings used in AI-driven branding literature and the subsequent integration of the

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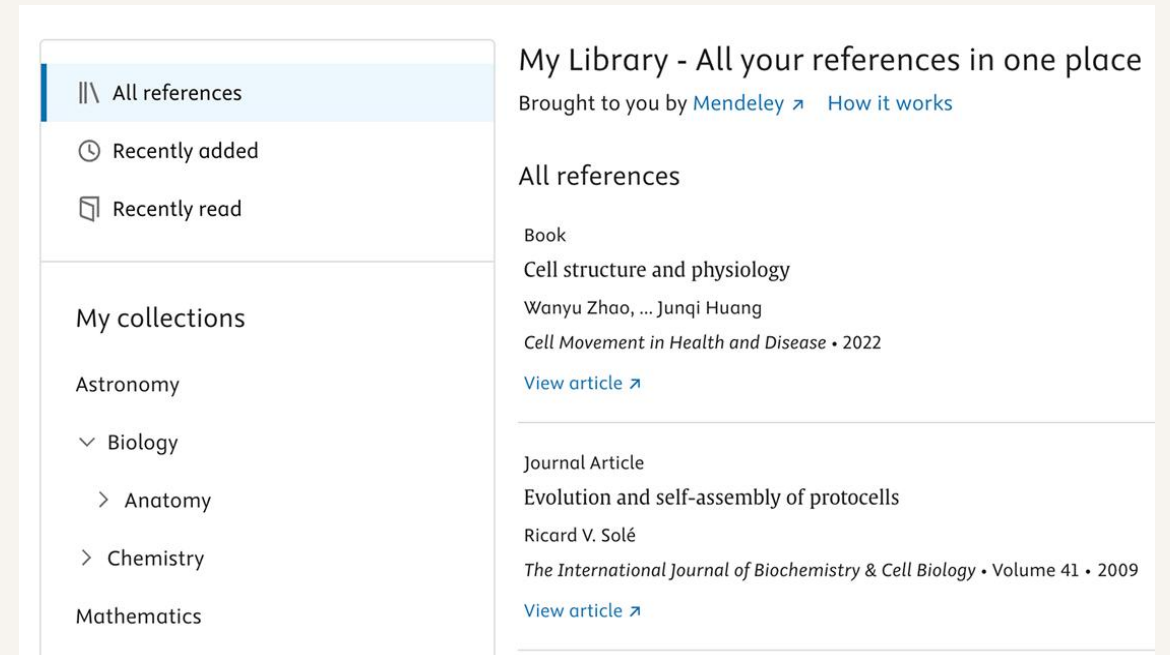
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- *Professor Paulo Botelho Pires, Porto Accounting and Business School, Porto Institute, Portugal, Spain*

ScienceDirect AI index – high-quality, full-text content

The ScienceDirect AI index contains versions of record of **over 14 million** peer-reviewed articles and book chapters. Here is a breakdown of the content:

From Elsevier:

- **Size:** 12.5 million documents, of which:
 - 10M articles, book series, handbooks and MRWs
 - 1.9M society-owned articles
 - approx. 500.000 chapters from over 42.000 books published by Elsevier
- **Type of articles:**
 - English-language content in XML format, no articles with embedded PDFs.
 - Articles types included: Full Length Article, Review Article, Book Chapter, Short Communication, Short Review, Case Report, Discussion, Protocol.
- **Types of book chapters:**
 - English-language scientific books across areas of Life, Physical and Social sciences.
 - Document types: monographs, series volumes, serials, major reference works and textbooks from legacy to current, up-to-date releases.

From other publishers (non-Elsevier)

- **Size:** ~1.5 million journal articles
- **Characteristics:** Open access (CC-BY) versions of record, from journals indexed in Scopus. Mainly from Health Sciences and some Life Sciences

Not included:

Third party partnership content – we only include them when/if they agree to be included and we move them on to a separate agreement.

Does this mean all of the articles in ScienceDirect are included in the index?

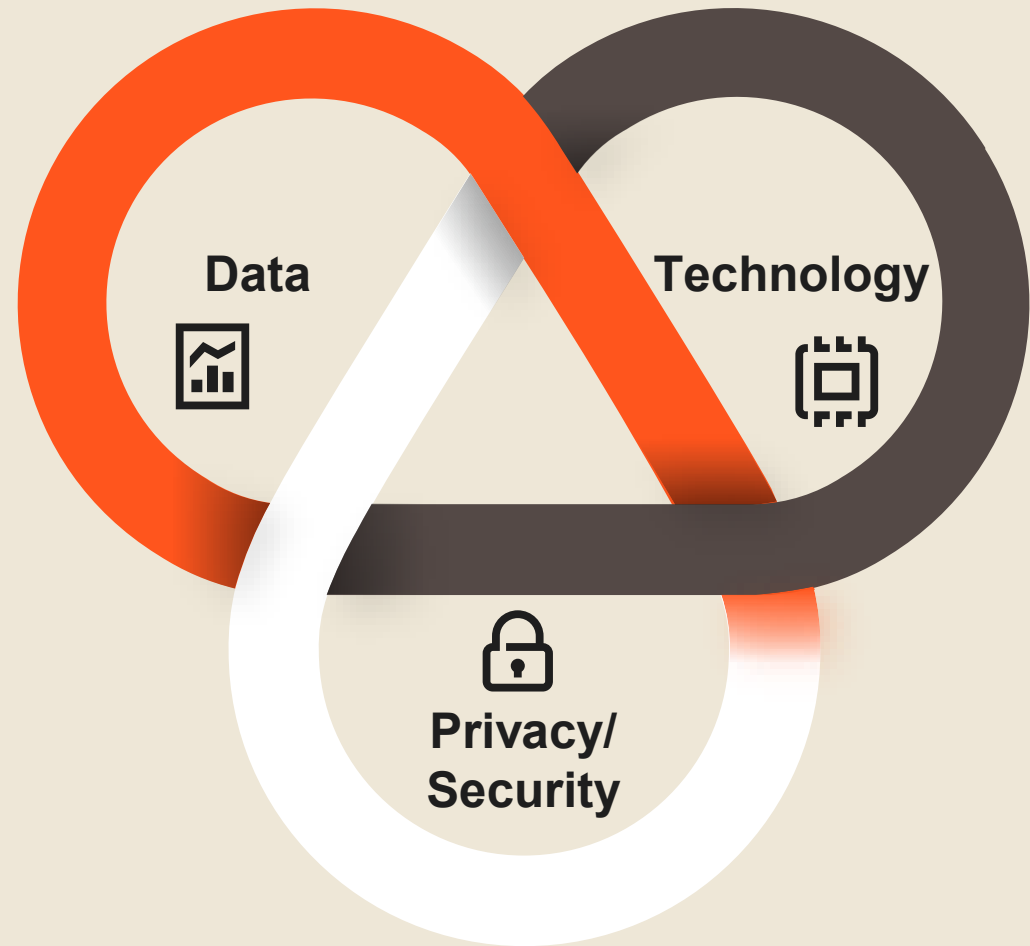
No, but most of the articles from 1995 onwards (available in XML format), with some exceptions (some society content was excluded) and some older content where available.

ScienceDirect AI connects unparalleled content, robust, research-focused AI, and powerful features to accelerate discovery, decision-making and innovation

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Trusted & Quality
Content: millions of full
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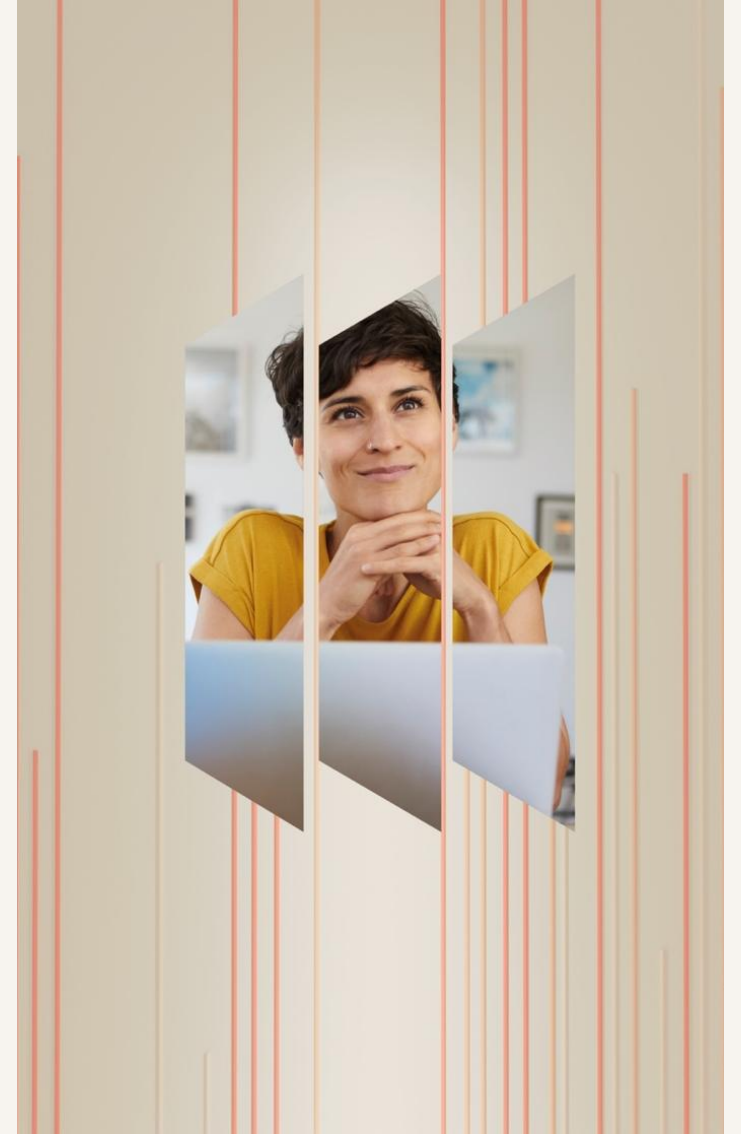
Reliable
technology



Developed in line with Elsevier's **Responsible AI Principles** and **Privacy Principles** to ensure the highest standards of data privacy and security.

Use cases for researchers – from information overload to insights

- **Reviewing literature**
 - Ask complex questions and receive synthesized responses to speed up your literature review process.
 - Get a sense of which papers are likely to contain information helpful to you.
- **Evaluating experiments**
 - Use the Compare Experiments tool to evaluate and compare experiments using one intuitive overview table
- **Identifying relevant content quickly**
 - Use the Reading Assistant to find relevant portions of an article or focus on the data that matters most to you



Resources for more information

ScienceDirect AI is here to elevate your research experience. Start exploring! .

- **Useful links:**

- [ScienceDirect AI Website](#)
- [ScienceDirect AI Video - Transformative Search](#)
- [ScienceDirect AI Video - Compare Experiments](#)
- [ScienceDirect AI video - Reading Assistant](#)
- [ScienceDirect AI – FAQs](#)
- [ScienceDirect AI Quick Reference Guide](#)
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Journal




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Microporous and Mesoporous Materials

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Materials Today Chemistry

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Publication options

Supports open access

Supports open access

Impact	20.1 CiteScore	9.6 CiteScore	7.6 CiteScore
	10.9 Impact factor	5.2 Impact factor	7.3 Impact factor
Publishing speed ⓘ	8 days Time to first decision	5 days Time to first decision	13 days Time to first decision
	51 days Review time	54 days Review time	66 days Review time
	68 days Submission to acceptance	70 days Submission to acceptance	81 days Submission to acceptance
	4 days Acceptance to publication	6 days Acceptance to publication	

Acceptance rate	17.35 % Acceptance Rate	23.06 % Acceptance Rate	
Article Publishing Charge ⓘ	\$4510 Article publishing charge for open access	\$3700 Article publishing charge for open access	\$3310 Article publishing charge for open access
Submission link	Guide for authors ↗ Submit your paper ↗	Guide for authors ↗ Submit your paper ↗	Guide for authors ↗ Submit your paper ↗
ISSN	Online ISSN: 1873-3891 Print ISSN: 0008-6223	Online ISSN: 1873-3093 Print ISSN: 1387-1811	Online ISSN: 2468-5194
Subject areas	Biomaterials, Materials Chemistry, Energy (General), Nanotechnology	Catalysis, Nanotechnology	Biomaterials, Materials Chemistry, Polymers and Plastics, Nanotechnology
Aims and scope	The journal Carbon is an international multidisciplinary forum for communicating scientific advances in the field of carbon materials , including low-dimensional carbon-based nanostructures . The ... View full aims & scope ↗	The Official Journal of the International Zeolite Association <i>Microporous and Mesoporous Materials</i> covers novel and significant aspects of porous solids classified as either microporous (pore size ... View full aims & scope ↗	<i>Materials Today Chemistry</i> is a multi-disciplinary journal focused on all aspects of materials chemistry. Materials chemistry is one of the fastest developing areas of science, covering the ... View full aims & scope ↗
Abstracting and indexing	<ul style="list-style-type: none">Elsevier BIOBASEChemical AbstractsCurrent ContentsEngineering IndexMonthly & Author IndexMaterials Science Citation IndexPascal FrancisScopusINSPEC	<ul style="list-style-type: none">Science Citation Index ExpandedInorganic Crystal Structure DatabaseChemical AbstractsCurrent Contents - Physical, Chemical & Earth SciencesScopusINSPEC	<ul style="list-style-type: none">ScopusEmerging Sources Citation Index (ESCI)INSPEC

Geographical Pricing for Open Access (GPOA)

Pilot details

Elsevier is piloting a program from January 2024 to set APC prices for 143 gold open access journals according to the income level of the country of the corresponding author.

- For these pilot journals we will waive the APC for corresponding authors who are based in low-income countries as classified by the World Bank as of July 2023.
- For articles whose corresponding authors are based in lower-middle-countries the geo-price will be 20 percent of the APC global list price.
- Corresponding authors based in upper-middle-income countries and where R&D intensity (domestic expenditure on R&D expressed as a percentage of GDP according to OECD) is below two percent are defined in three different groups based on GNI per capita and will see a different APC geo-price based on the GNI per capita of the country ranging from 45 percent to 90 percent of the APC list price.
- [List of journals included in Elsevier's geographical pricing for open access pilot](#)

Upper-middle income 1 (45% of APC to be paid)		
Albania	Gabon	North Macedonia
Armenia	Georgia	Paraguay
Azerbaijan	Guatemala	Peru
Belarus	Indonesia	South Africa
Belize	Iraq	Suriname
Botswana	Jamaica	Thailand

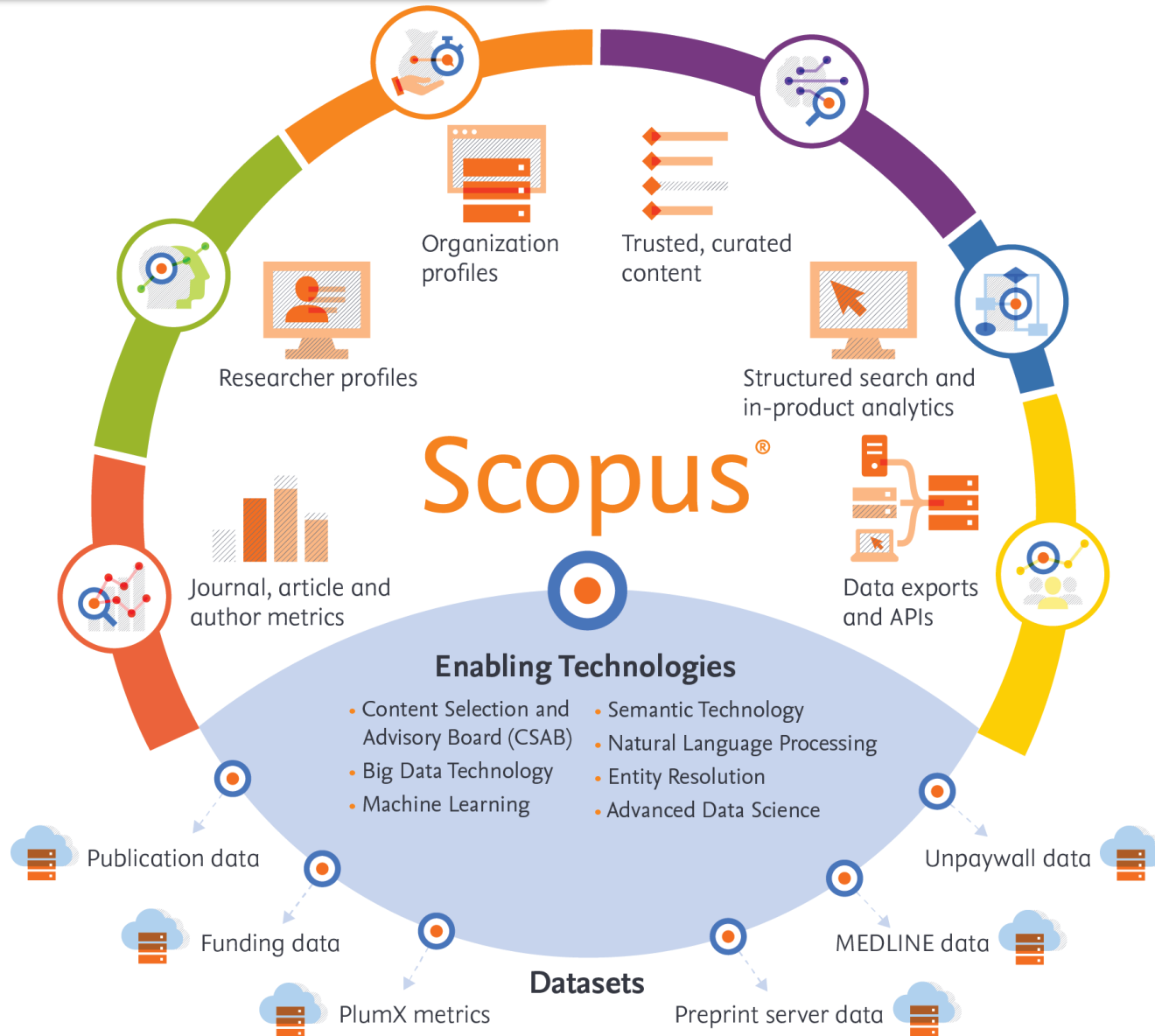
Authors under Thailand can pay the 45 % of APC with 55% discount from 143 journals under [Elsevier's lists](#)

The background is a collage of images related to research and design. It includes a person's legs in a grey sweater, a hand holding a pencil, a color calibration chart, and several documents with pink and yellow sticky notes. The central text is overlaid on a dark grey banner.

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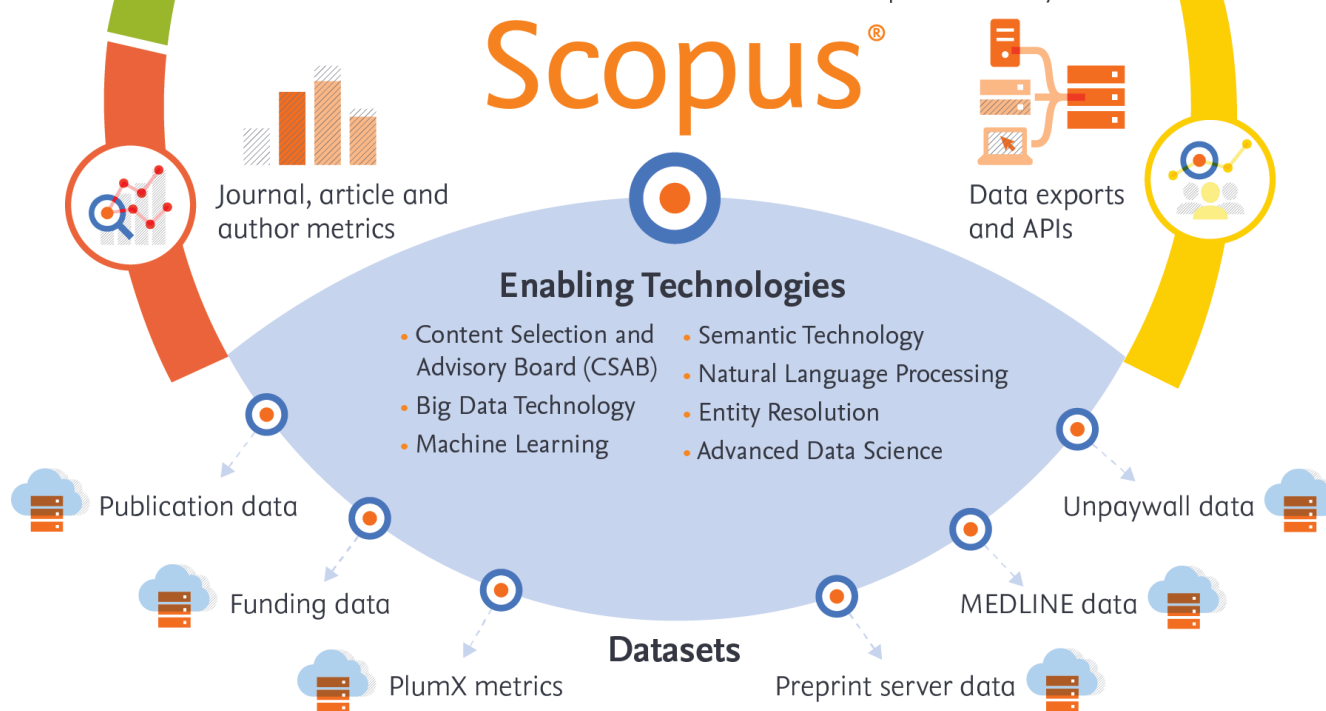
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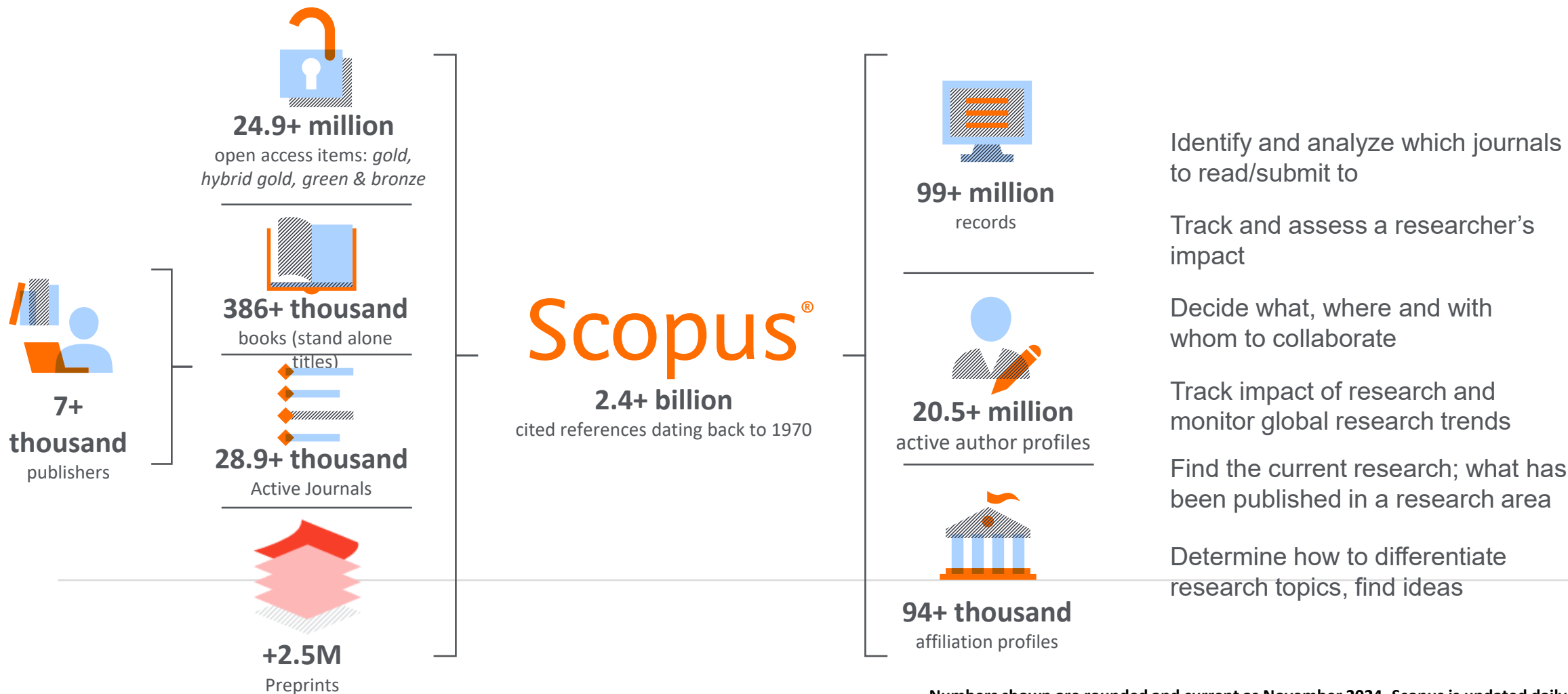
Assessment of research landscape needs to target new data types for integration

	Progress your research	Evaluate your research	Reflect your research
	<p>Intuitive, powerful search, with trusted and comprehensive content</p> <p>Insights to help you progress your research with confidence</p>	<p>Powerful linked data, disambiguated, connected to key research entities</p> <p>Insights for comprehensive evaluations you can trust</p>	<p>The most accurate reflections of your research entities, structured in linked, flexible data</p> <p>Built to scale, integrate and hone to meet your most stringent demands and highest value decisions</p>
Key Challenges	<div> <div>  <p>Teaching next generation researchers</p> </div> <div>  <p>Supporting career growth & development</p> </div> </div> <div> <div>  <p>Helping research thrive</p> </div> <div>  <p>Supporting the scholarly record</p> </div> </div>	<div> <div>  <p>Signaling researcher impact</p> </div> <div>  <p>Signaling organizational impact</p> </div> </div>	<div> <div>  <p>Inform global rankings calculations</p> </div> <div>  <p>Inform national and regional assessments</p> </div> <div>  <p>Glean insights from custom adaptations and analyses</p> </div> </div> <div> <div>  <p>Inform analyses of global and regional research trends</p> </div> <div>  <p>Power repositories and RIMS with profile data</p> </div> </div>
Stakeholders	<div>     </div> <div> <div>Librarians</div> <div>Students</div> <div>Faculty & researchers</div> <div>Editors</div> </div>	<div>     </div> <div> <div>Librarians</div> <div>Heads of department</div> <div>Faculty & researchers</div> <div>Research Services</div> </div>	<div>     </div> <div> <div>Librarians</div> <div>Heads of department</div> <div>Faculty & researchers</div> <div>Research Services</div> </div>

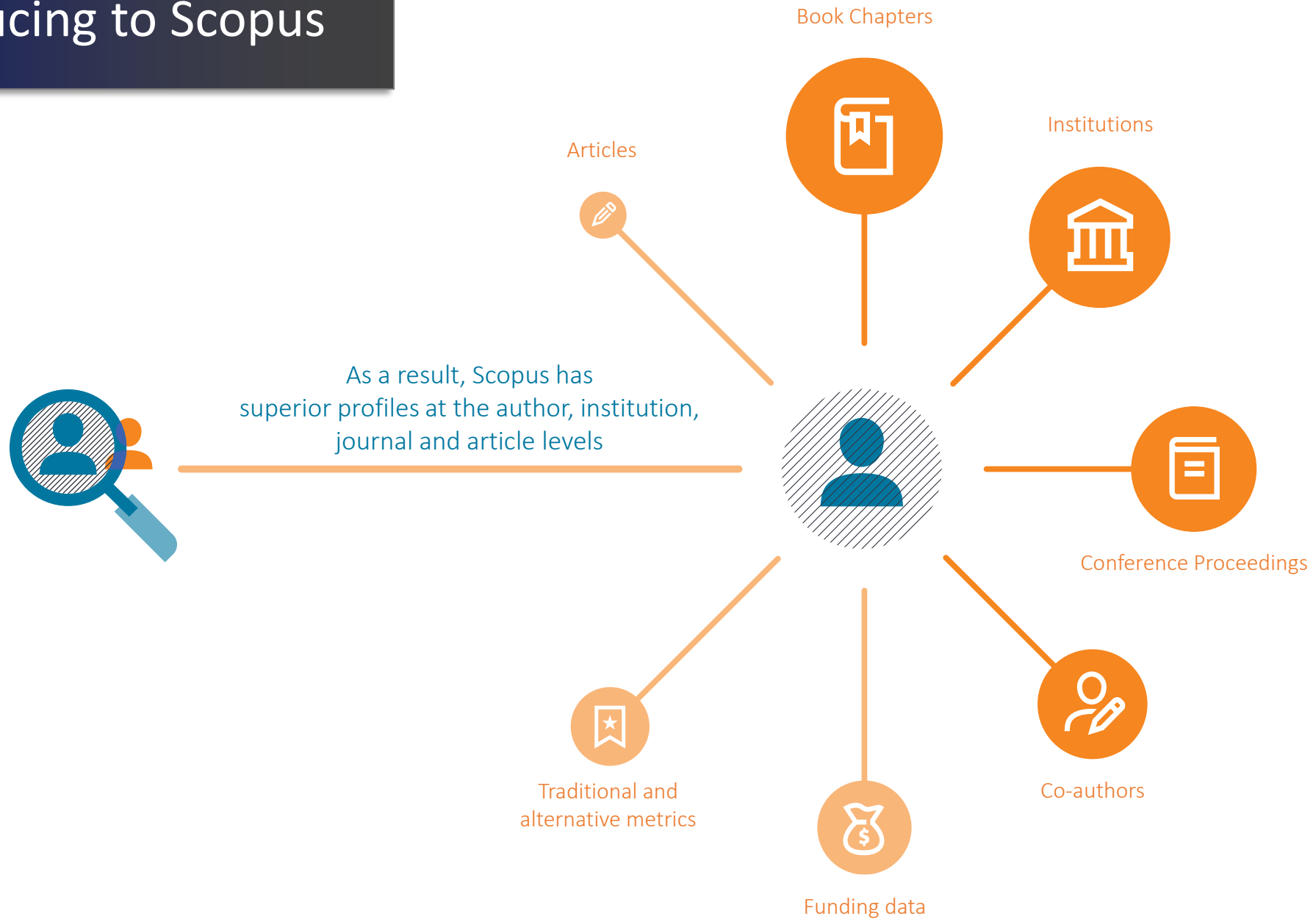
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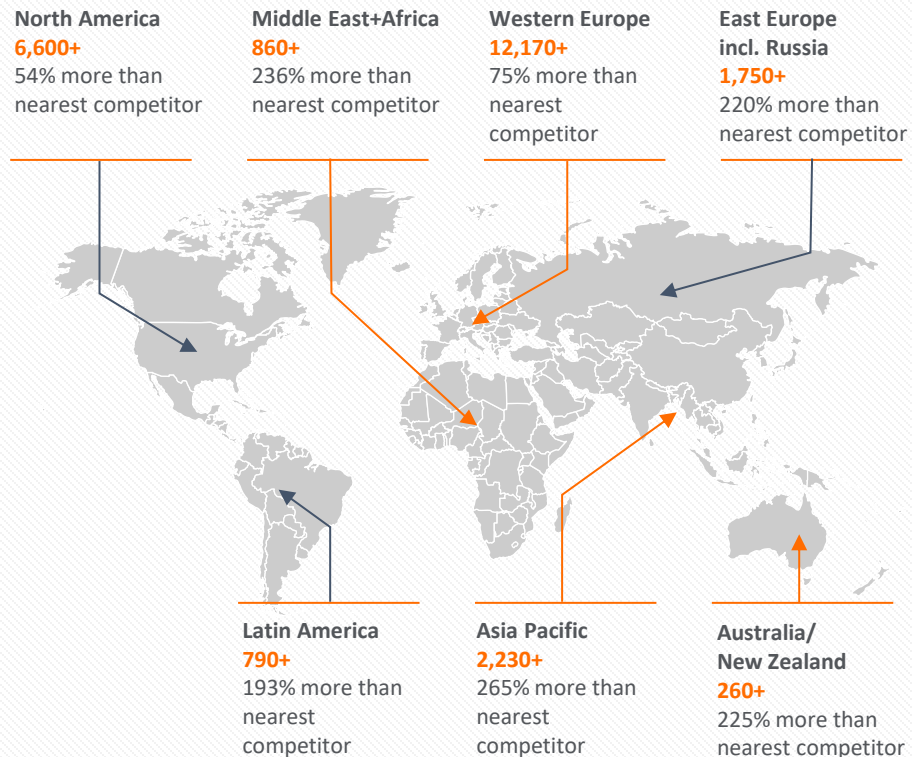
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- Historical coverage **back to 1788**
- **18.4 M open access documents**
- Multiple regional content types
(**journals, conferences, books, book series**)

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
Health sciences 15,475	7,911 OA Journals (DOAJ/ROAD) 22.8M fully-indexed funding acknowledgements		Focus on Social Sciences and A&H	7 preprint servers:
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		<ul style="list-style-type: none">• arXiv• ChemRxiv• bioRxiv• medRxiv• SSRN• TechRxiv• Research Square
Life sciences 8,379				

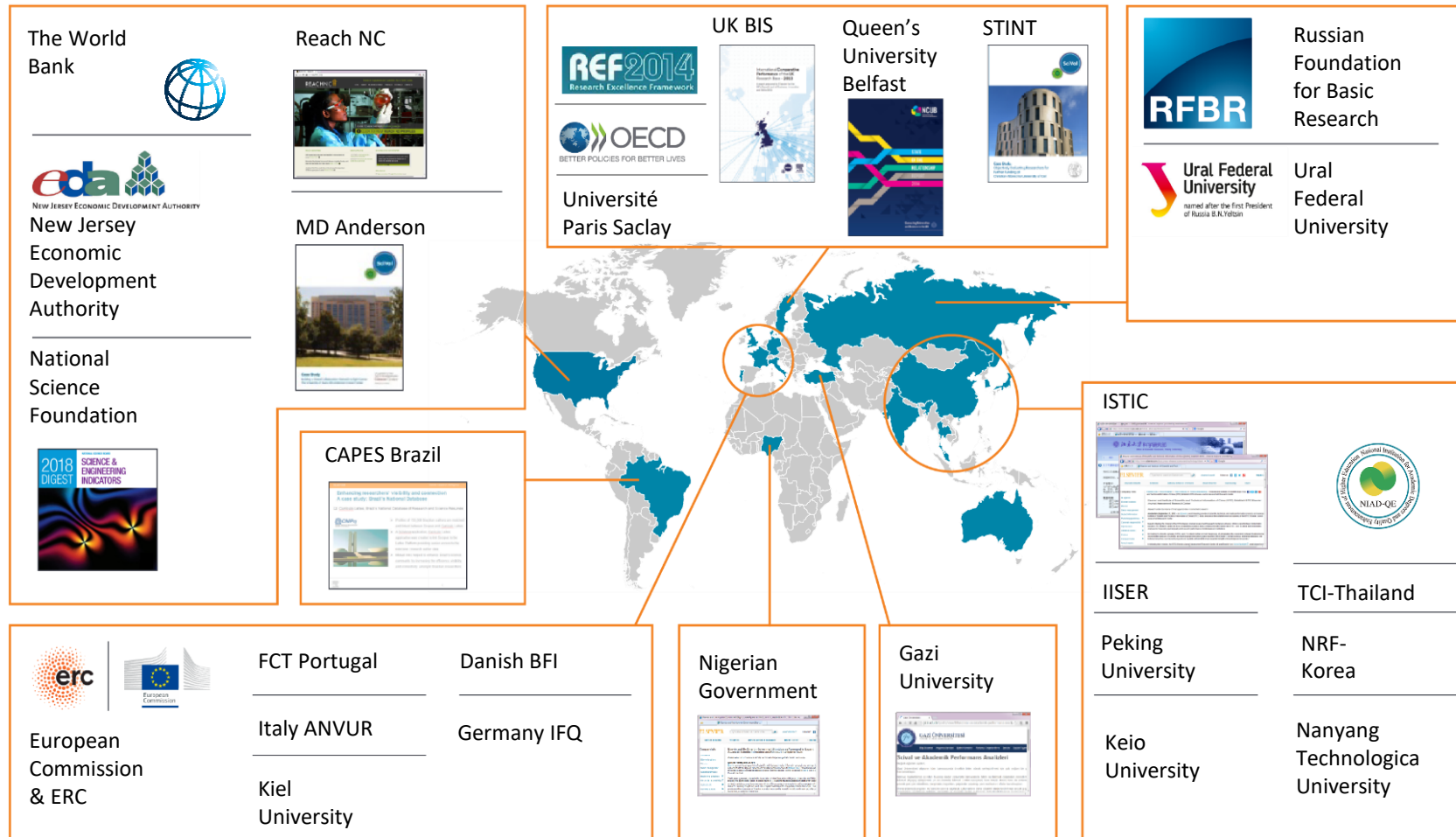
*Journals may be classified in multiple subject areas: this count includes current actively indexed titles only

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

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

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Rankings Organizations



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World university rankings – QS

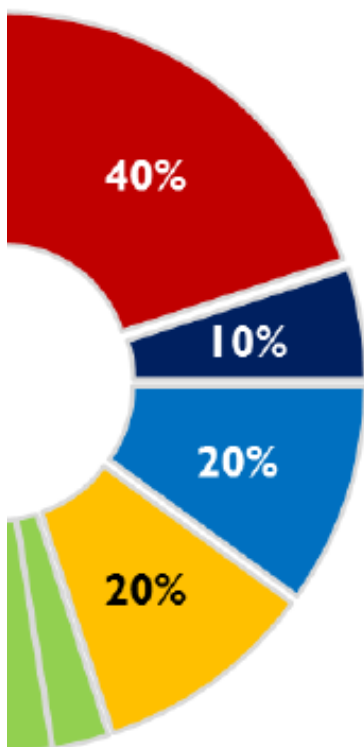
University Rankings use a combination of expert opinion (surveys) and objective data (including from Scopus)



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

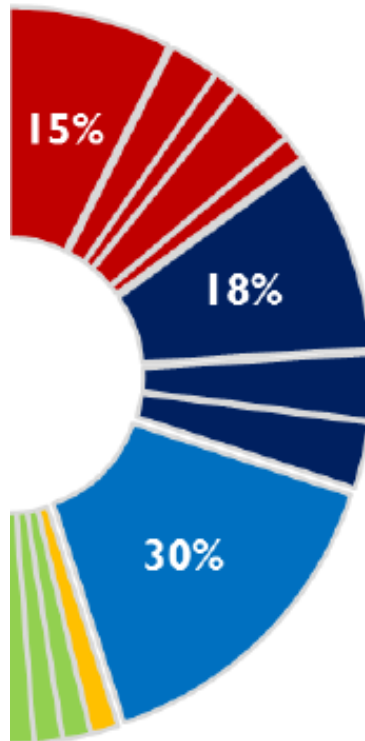
University Rankings use a combination of expert opinion (surveys) and objective data (including from Scopus)

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%)

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Searching Scopus - Demonstration

Research Workflow



Let's Think!!!

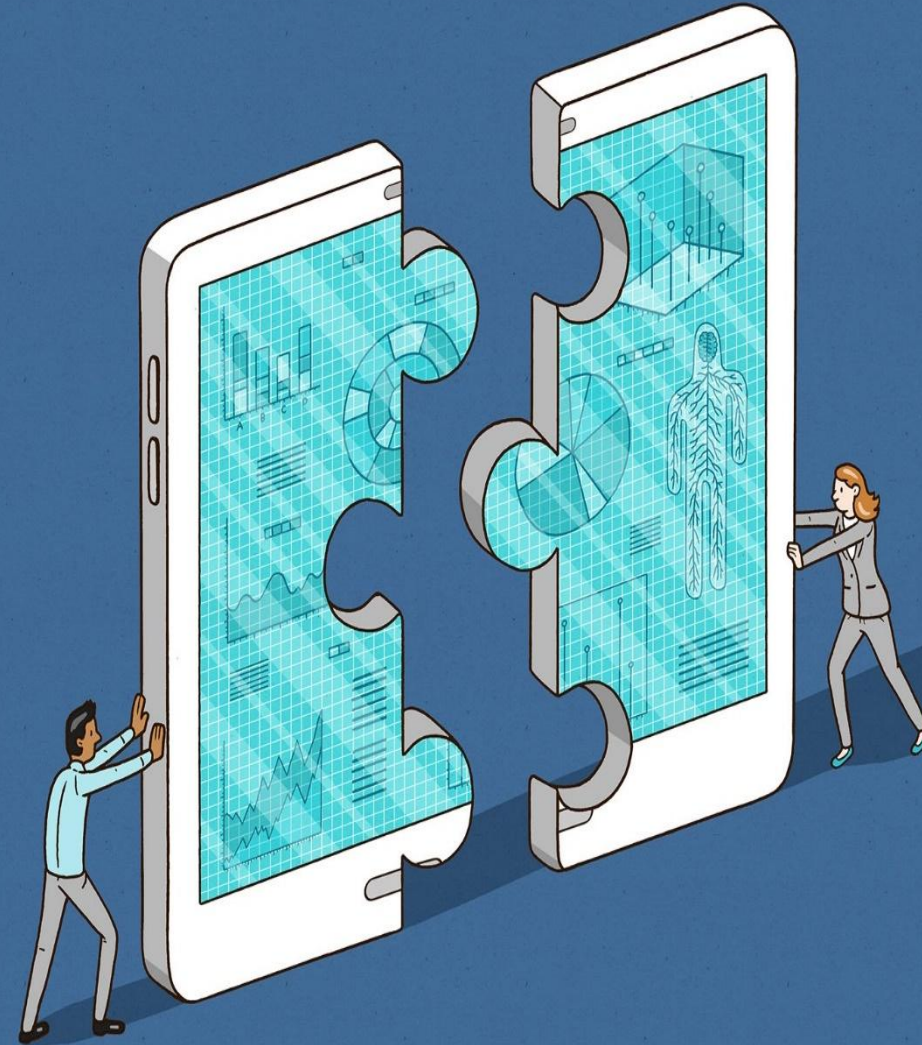


When you have to read what you don't like to read...



Use cases

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< Basic Search Advanced

[Search tips ?](#)

Enter query string

1

Advanced
search using
Boolean
operators

[Outline query](#)

[Add Author name / Affiliation](#)

[Search Q](#)

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

Operators

2

List of
operators

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

Field codes ?

Textual Content

Affiliations

Authors

Biological Entities

3

Field codes

Ex: AF-ID

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

Search Functionality

- **Choosing Search Terms**

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

Boolean Operators

- AND

Finds only documents that contain all of the terms.

The terms may be far apart from each other.

e.g. **food AND poison**

- OR

Finds documents that contain any of the terms.

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

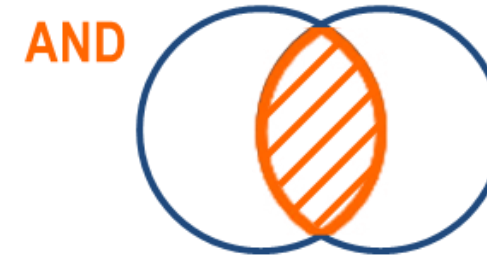
e.g. **weather OR climate**

- AND NOT

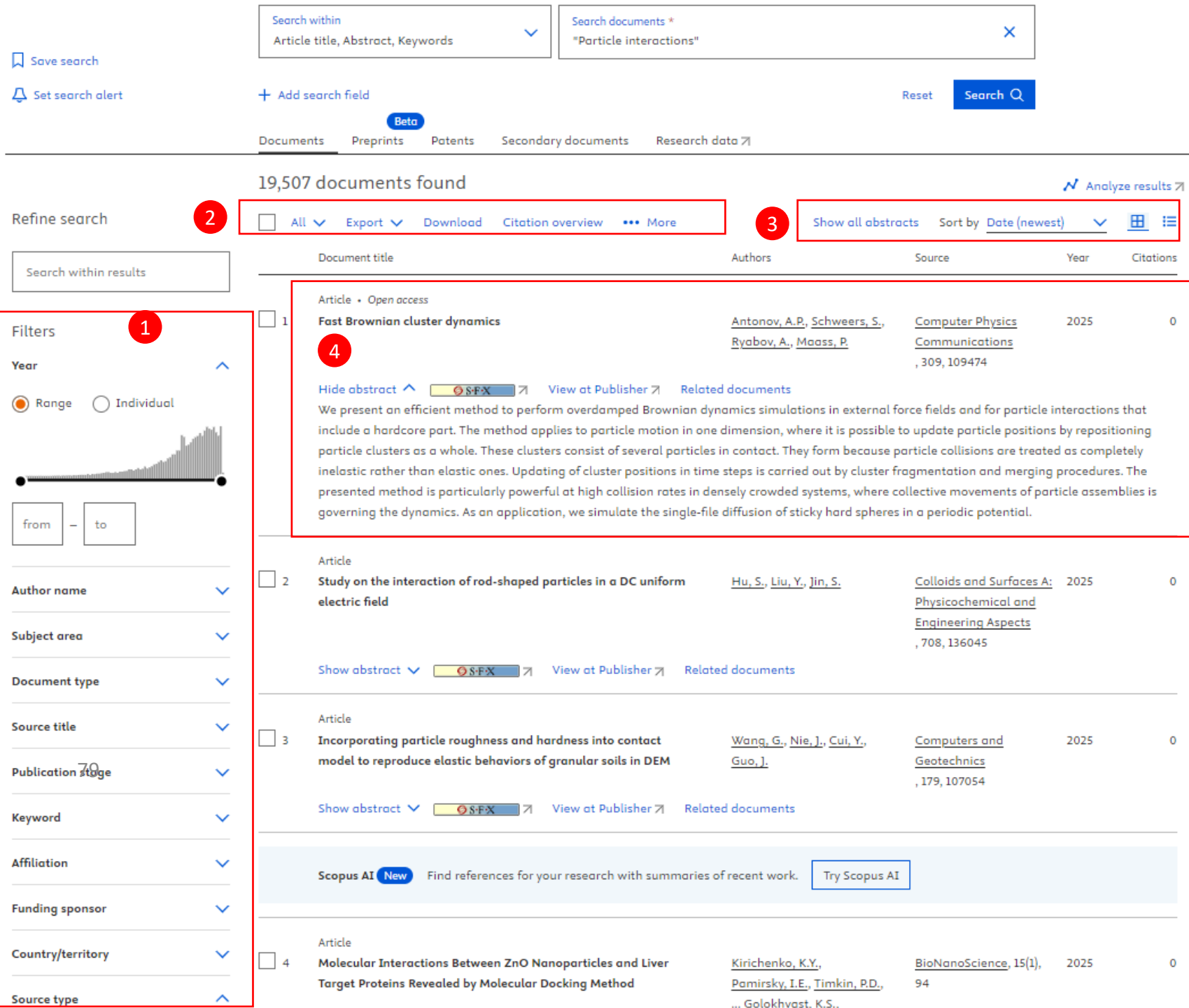
Excludes documents that include the specified term from the search.

It must be used at the end of a search.

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

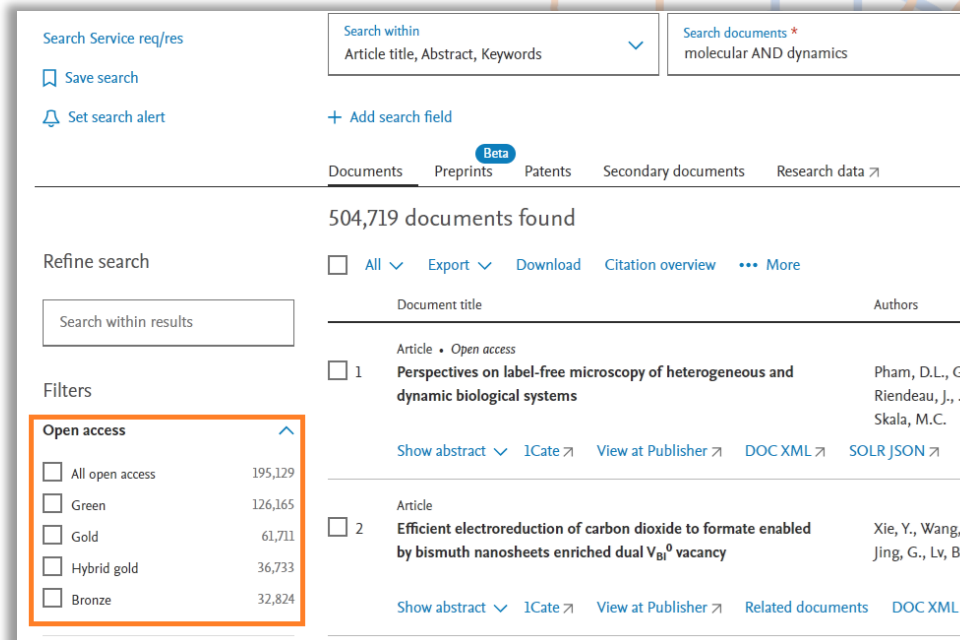


4 Abstract/
Article Record



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.
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Fast Brownian cluster dynamics

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

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^a Universität Osnabrück, Fachbereich Mathematik/Informatik/Physik, Institut für Physik, Barbarastraße 7, Osnabrück, D-49076, Germany

^b Institut für Theoretische Physik II: Weiche Materie, Heinrich-Heine-Universität Düsseldorf, Universitätsstraße 1, Düsseldorf, D-40225, Germany

^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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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

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Journal of Molecular Biology

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

View all

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Sustainable Development Goal (SDGs)

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

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

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



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

Scopus Journal and Articles Metrics



Citations in a year to documents published in 4 years

of documents in 4 years

CiteScore

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



Universiteit Leiden

Journal's citation count per paper

Citation potential in its subject field

SNIP

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



Average # of weighted citations received in a year

of documents published in previous 3 years

SJR

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

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

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19,507 documents found | Analyze results

Refine search | Search within results

Filters | Year | Range | Individual | from - to

Author name

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

File types | CSV | RIS | BibTeX | Plain text | Reference managers | Mendeley | Refworks (RIS) | Zotero (RIS) | EndNote (RIS) | Platforms | SciVal

	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

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TITLE-ABS-KEY ("Particle Interactions")

Edit Save Set alert Set feed

Search within results...

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Access type

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

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Methods in Physics Research,
Section A: Accelerators,
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Associated Equipment
506(3), pp. 250-303 13125

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

Setting up Search Alerts

TITLE-ABS-KEY ("Particle Interactions")

Edit Save **Set alert** Set feed

Search within results...

Refine results

Limit to Exclude

Access type ⓘ

Year

☐ 2020
☐ 2019
☐ 2018
☐ 2017
☐ 2016

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Author name

Set alert

E-mail search alert

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

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

* Required fields

Name of alert *
"particle interactions"

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Separate multiple email addresses by a semicolon, comma, space or

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

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Analyze Results

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15,583 document results

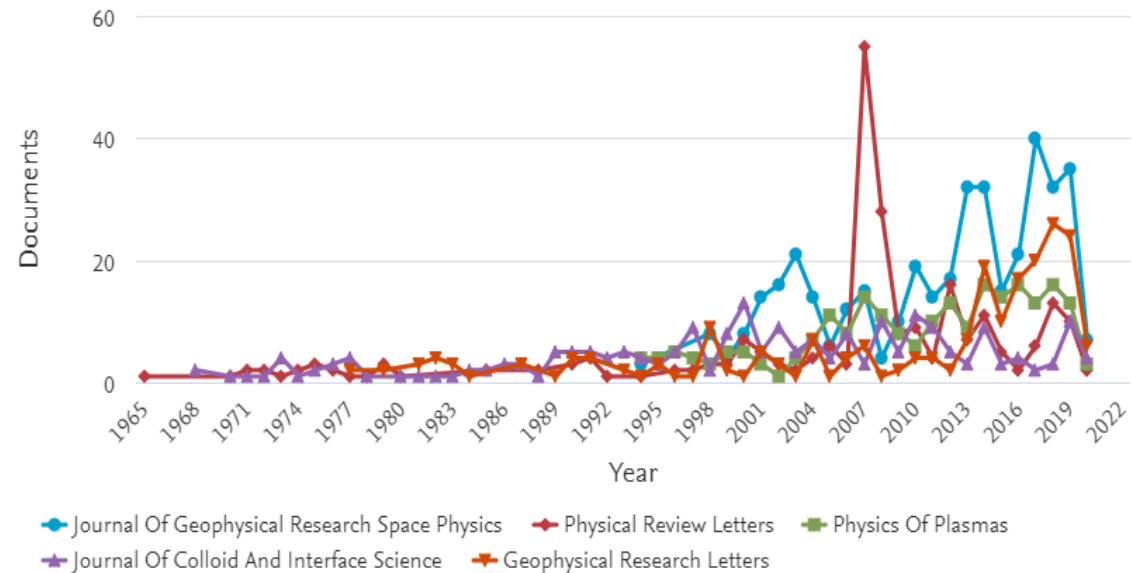
Select year range to analyze: 1936 to 2020 [Analyze](#)

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

Documents per year by source

Compare the document counts for up to 10 sources.

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





Author Search

Author Search



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Sources

SciVal ↗



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+ Add affiliation

Search

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☐ Universiti Sains Malaysia (37) >

☐ Universiti Putra Malaysia (32) >

☐ University of Malaya (28) >

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☐ Universiti Kebangsaan Malaysia (15) >

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City

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☐ Penang (32) >

☐ Serdang (32) >

☐ Kajang (23) >

☐ Bangi (15) >

View more

Country/territory

☐ Malaysia (281) >

☐ Singapore (10) >

Sort on: Document count (high-low)

☐ All

Show documents

View citation overview

Request to merge authors

Save to author list

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

Author (s): clickable

Author Search

Lim, Steven

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

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

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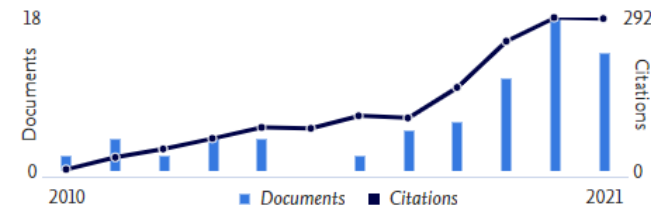
Metrics overview

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

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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.

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Author Position

Based on 6 documents for 2013 - 2022

First author • 67%

Documents	Average citations	Normalized Average FWCI
4	7	0.573

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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)

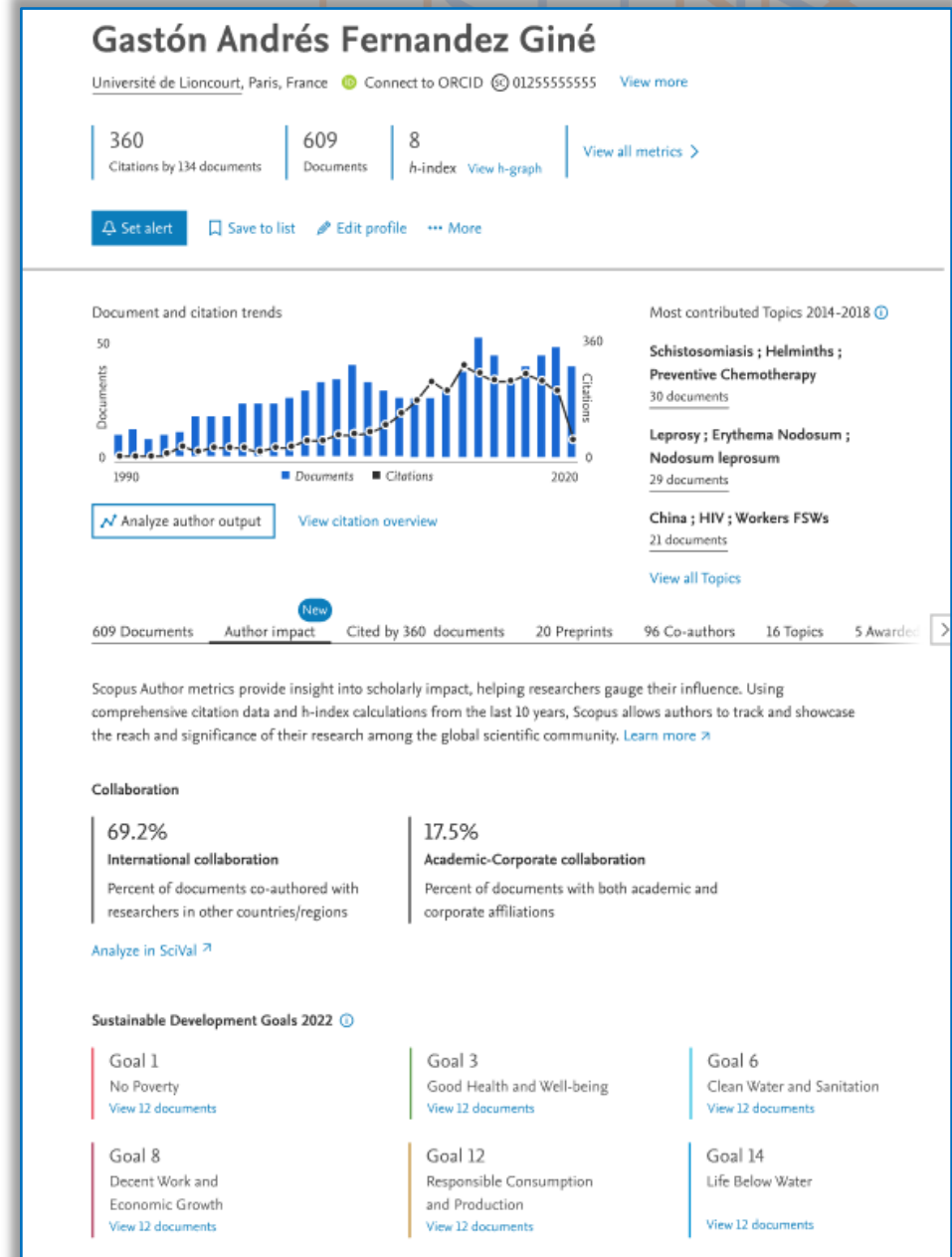
5 Author Publications

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

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Lim, Steven

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

Analyze documents published between: to
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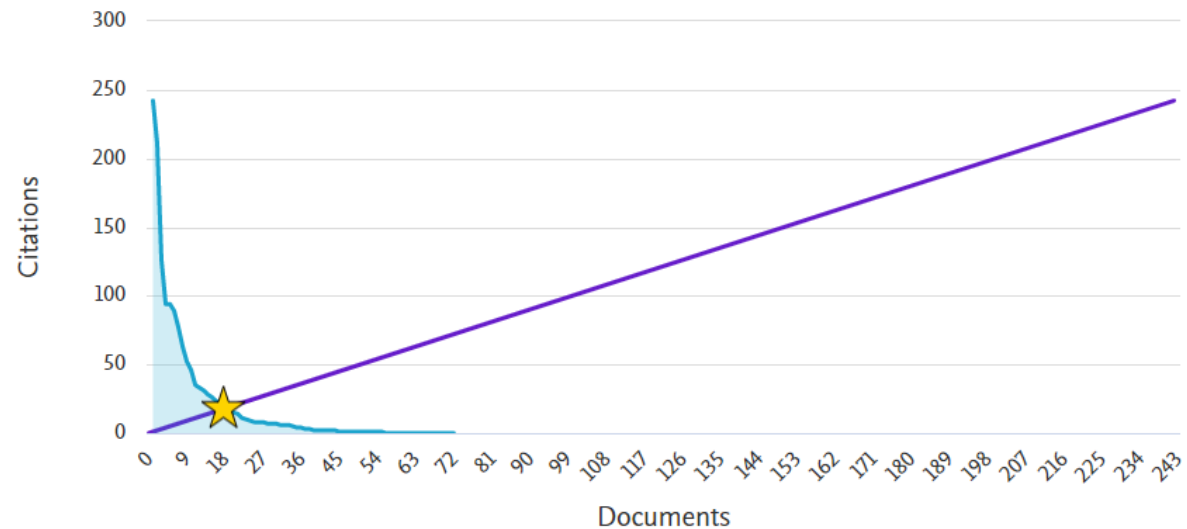
Documents ↓ Citations ↓ Title ↓

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

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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.)

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 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
 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
 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
 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
 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

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52 author results

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

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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 >

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	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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Author Feedback Wizard

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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.

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+ Affiliation

Search Q

Author Search

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

Refine results





Limit to

Affiliation

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


City

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

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

1

 Top of page

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Author Search



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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?

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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.



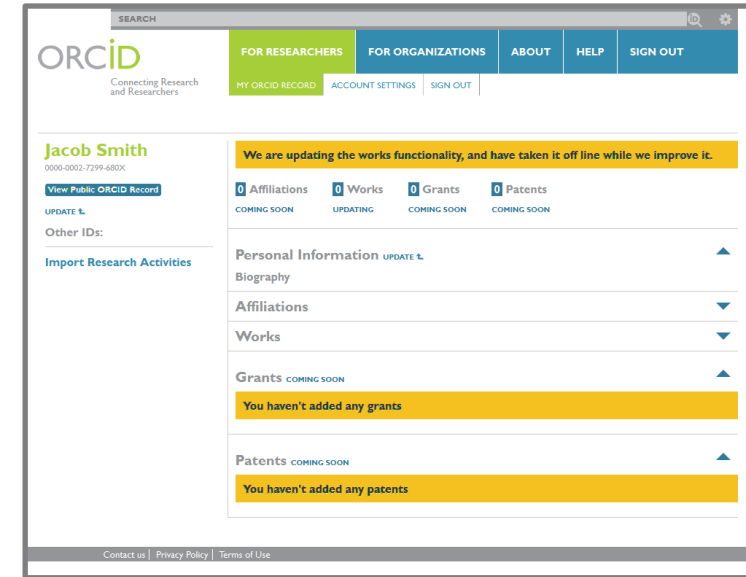
Dr. Win

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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3

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

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Boo, Nem Yun

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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.
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Counts for 4-year timeframe

☒ No minimum selected

☐ Minimum citations

☐ Minimum documents

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☐ 2nd quartile

☐ 3rd quartile

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View metrics for year:

2020

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

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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	<div></div> 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](#) [v](#)

Source type: Journal

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[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](#) [v](#)

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

Calculated on 05 May, 2022

CiteScoreTracker 2022 [i](#)

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

Last updated on 05 October, 2022 • Updated monthly

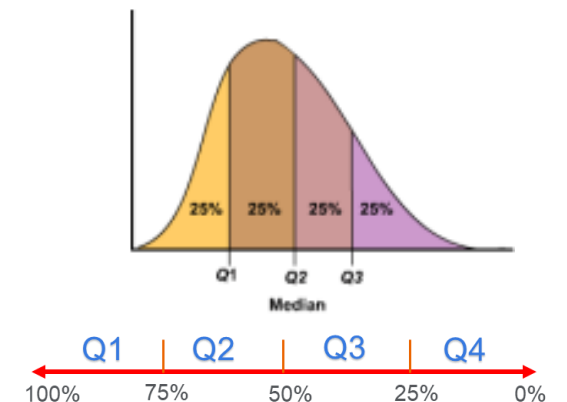
Read CiteScore of selected year or current year. Also see how it is calculated.

CiteScore rank 2021 [i](#)

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

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

- Can you read its rank, percentile and quartile?



More on CiteScore

Ecosystem Services

Scopus coverage years: from 2012 to Present

Publisher: Elsevier

ISSN: 2212-0416

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

Source type: Journal

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

CiteScore 2021
11.7

SJR 2021
1.749

SNIP 2021
1.807

[CiteScore](#)

[CiteScore rank & trend](#)

[Scopus content coverage](#)

See 5 years trends of this journal

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CiteScore rank ⓘ 2021

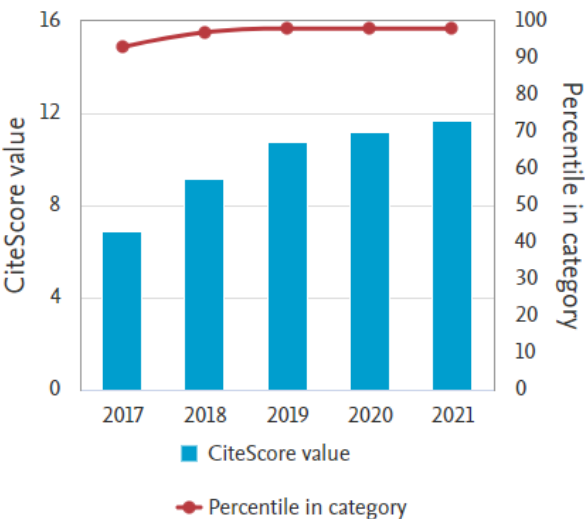
[▼](#) In category: [Agricultural and Biological Sci...](#) [▼](#)

☆	#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**.

CiteScore trend



Scopus Source List



Scopus

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Title



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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.](#)

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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.

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Counts for 4-year timeframe

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Citescore highest quartile

☐ Show only titles in top 10 percent

☐ 1st quartile

42,180 results

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View metrics for year: 2020

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

Check for Coverage of SCOPUS



Scopus

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Source details

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

Biomedicine and Pharmacotherapy

Formerly known as: [Biomedicine Express](#)

[Open Access](#)

Formerly known as: [Biomedicine](#)

Scopus coverage years: from 1982 to Present

Publisher: Elsevier

ISSN: 0753-3322

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

Source type: Journal

[View all documents](#)

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

[BIBSYS](#)

CiteScore 2020

9.3



SJR 2020

1.323



SNIP 2020

1.443



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



Improved CiteScore methodology



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

CiteScore [2020](#)



9.3

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

CiteScoreTracker 2021



9.5

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

Case of Discontinued Journal 1



Scopus

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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](#)

Source type: Journal

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[Source Homepage](#)

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

[BIBSYS](#)

CiteScore 2017

1.4



SJR 2019

0.285



SNIP 2019

0.437



[CiteScore](#)

[CiteScore rank & trend](#)

[Scopus content coverage](#)



Improved CiteScore methodology

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



CiteScore [2017](#)



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

Calculated on 01 May, 2018



= —

CiteScore rank 2017 [i](#)



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Praserthdam, 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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Jongsomjit, Bunjerd Chulalongkorn University, <i>Thailand</i> Preview profile	17	2177	203	25
Praserthdam, Piyasan Chulalongkorn University, <i>Thailand</i> Preview profile	15	7188	502	45
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Riani, Paola UdR Genova, <i>Italy</i> Preview profile	10	2272	100	31
Wang, Lichang	9	5278	151	39

Publications

Author profile preview



Jongsomjit, Bunjerd

Chulalongkorn University, *Thailand*

Experience in research: **22+ years**

Year of latest matching document: **2023**

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Most contributed topics

2018–2022

Bioethanol; Dehydration; Propylene

Acetaldehyde; Catalyst; Dehydrogenation

Ziegler Catalyst; Ethylene; Magnesium Chlorides

Latest publications

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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., Praserthdam, P., Jongsomjit, B.

Journal of the Taiwan Institute of Chemical Engineers, 2022

Researcher detail

Email for contacting

Corresponding author e-mail address*

bunjerd.j@chula.ac.th

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



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Documents Structure Collaborators Sustainable Development Goals 2023

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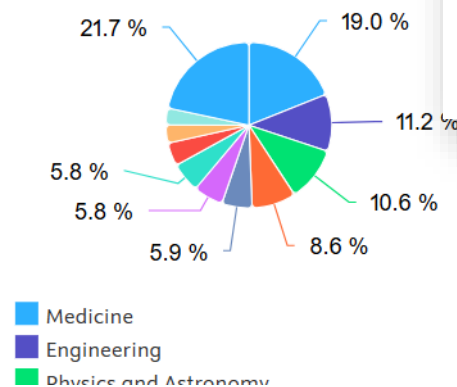
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Subject area	Documents
Medicine	86,595
Engineering	51,027
Physics and Astronomy	48,648
Biochemistry, Genetics and Molecular Biology	39,426

Subject trends



Documents by Source

Documents Structure Collaborators Sustainable Development Goals 2023

New

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

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

SDG contributions

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

Collaborating Affiliations

150 Collaborating organizations

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

Hide abstract ^ 1Cate View at Publisher Related documents

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

<input type="checkbox"/> 2	Towards provably efficient quantum algorithms for large-scale machine-learning models <i>Open Access</i>	Liu, J., Liu, M., Liu, J.-P., (...), Eisert, J., Jiang, L.	2024	Nature Communications 15(1),434	0
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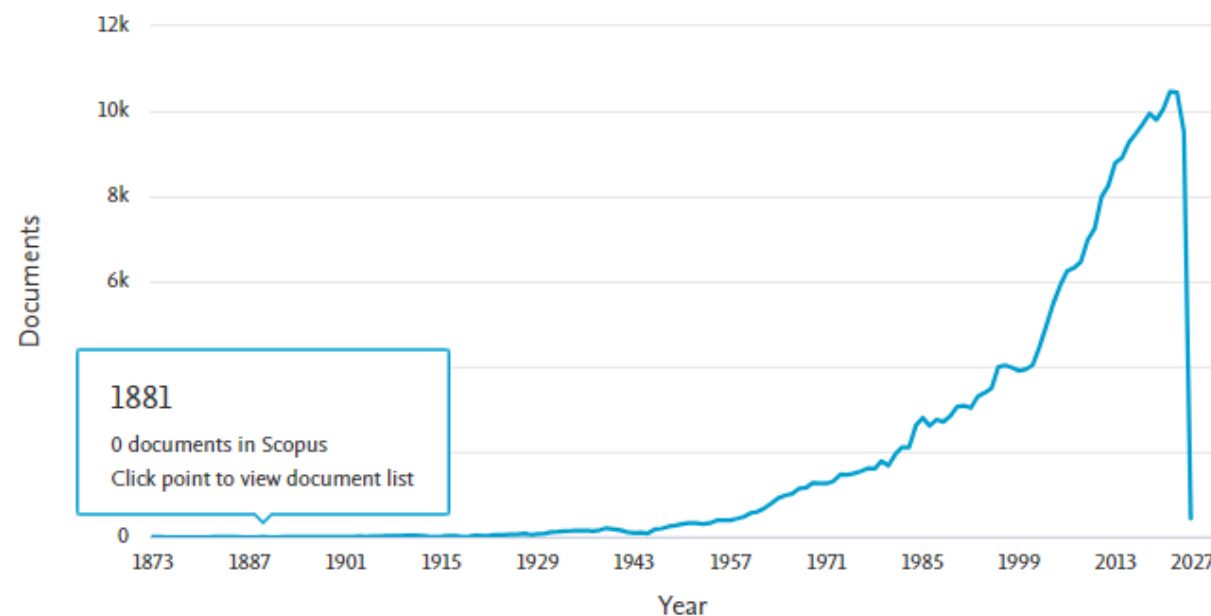
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Year ↓	Documents ↑
2024	439
2023	9519
2022	10440
2021	10464
2020	10047
2019	9797
2018	9945
2017	9691
2016	9473
2015	9265

Documents by year



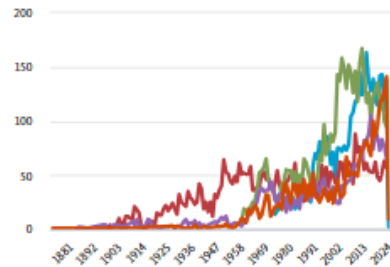
1881

0 documents in Scopus

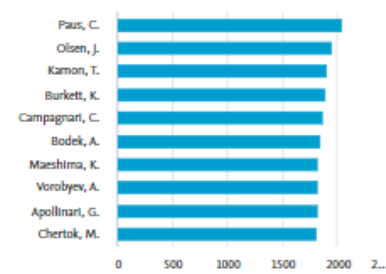
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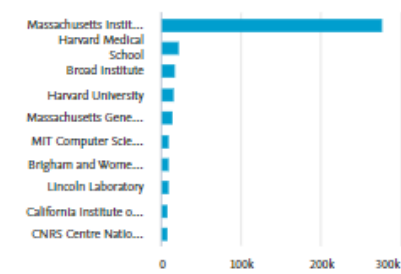
Documents per year by source



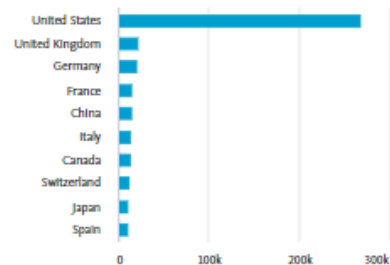
Documents by author



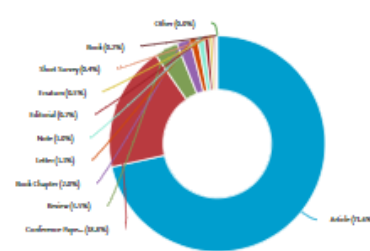
Documents by affiliation



Documents by country/territory



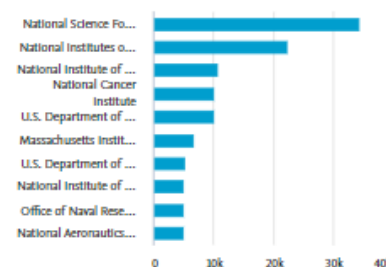
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- ☐ Massachusetts General Hospital (621) >

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	Author	Documents	<i>h</i> -index ⓘ	Affiliation	City	Country/Territory
<input type="checkbox"/> 1	Paus, Christoph Paus, Ch Paus, C. View last title >	2056	135	Massachusetts Institute of Technology	Cambridge	United States
<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	Kovalskyi, Dmytro Kovalskyi, 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



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คำถามเบื้องต้น

- 1) การใช้ ScienceDirect AI ในการค้นหาแตกต่างกับการค้นหาแบบปกติ ขนาดไหน
- 2) What is AI
- 3) สามารถติดตามข่าวสารการเปลี่ยนแปลงต่างๆ เกี่ยวกับฐานข้อมูลได้ผ่านทางไหน
- 4) Science Direct รับแบบ full collection ทั้ง วารสาร และ E-book หรือไม่
- 5) บางเปเปอร์ เปิดไปแล้วให้จ่ายตัง เรามีวิธี หาเปเปอร์ที่ฟรี และมีข้อมูลครบๆ แบบไหนได้อีกบ้างคะ
- 6) อยากทราบการใช้งานข้อมูลพื้นฐาน
- 7) มักจะมีคนบอกว่าเปเปอร์จะแหล่งข้อมูลนั้นๆ ไม่น่าเชื่อถือ หากเราไม่มีประสบการณ์มาก่อน จะรู้ได้อย่างไร
- 8) วิธีการตรวจสอบระดับ Quartile ของวารสารวิจัยทางสังคมศาสตร์ และนโยบายและแนวโน้มของ Elsvier
- 9) หางานวิจัยหรือบทความที่ตรงความต้องการได้ยากในฐานข้อมูลทั่วไป แม้จะใช้คำสำคัญในการค้นหา

1.การใช้ ScienceDirect AI ในการค้นหาแตกต่างกับการค้นหาแบบปกติ ขนาดไหน

ScienceDirect AI: ให้คำตอบสรุปพร้อมอ้างอิง รองรับภาษาธรรมชาติ ได้ภาพรวมเร็ว
ค้นหาแบบปกติ: แสดงผลลัพธ์บทความตามคีย์เวิร์ด/ตัวกรอง ต้องเปิดอ่านเอง ควบคุมและครอบคลุมกว่า

ใช้ **AI** เพื่อเริ่มต้น/จับประเด็นเร็ว ใช้แบบปกติเมื่อทำรีวิวเชิงระบบหรืออยากตรวจสอบละเอียด

2. What is AI (AI คืออะไร?)

AI (ปัญญาประดิษฐ์) คือเทคโนโลยีที่ทำให้คอมพิวเตอร์เรียนรู้จากข้อมูล วิเคราะห์ และตัดสินใจ/สร้างผลลัพธ์ได้อัตโนมัติ คล้ายความสามารถของมนุษย์ (เช่น แชทบอท รู้จำภาพ/เสียง และการคาดการณ์).

3) สามารถติดตามข่าวสารการเปลี่ยนแปลงต่างๆ เกี่ยวกับฐานข้อมูลได้ผ่านทางไหน

<https://www.elsevier.com/products>

4) Science Direct รับแบบ full collection ทั้ง วารสาร และ E-book หรือไม่

เฉพาะ วารสาร ครับ

5) บางเปเปอร์ เปิดไปแล้วให้ย่ำตั้ง เรามีวิธี หาเปเปอร์ที่ฟรี และมีข้อมูลครบๆ แบบไหนได้อีกบ้างคะ

- ณ ตอนนี้ทาง สจล ได้รับบอกรับทั้งหมดทุกสาขา 23 สาขา ซึ่งคิดว่าน่าจะครอบคลุมมากครับ ณ ตอนนี้
 - แต่ถ้าอยากอ่านบางเปเปอร์ที่อยู่นอกเหนือการบอกรับนั้น สามารถเลือก วารสารที่เป็น **Open Access** หรือ **Open Archive** ตรงตัวกรองด้านซ้ายมือได้ครับ
-

6) อยากทราบการใช้งานข้อมูลพื้นฐาน

- Session นี้ หวังว่าจะตอบใจത്യครับ
-

7) มักจะมีคนบอกว่าเปเปอร์จะแหล่งข้อมูลนั้นๆ ไม่น่าเชื่อถือ หากเราไม่มีประสบการณ์มาก่อน จะรู้ได้อย่างไร

- ดูฐานข้อมูลและสำนักพิมพ์: มีใน Scopus/PubMed หรือไม่? อยู่บน ScienceDirect (ของ Elsevier) มักผ่านการคัดกรองและ peer review แล้ว
- เช็ควารสารใน Scopus (Sources): ดูว่าอยู่ในดัชนีและค่าชี้วัดอย่าง CiteScore, SJR, Quartile (Q1–Q2 มักคุณภาพสูง)
- ตรวจสอบผู้พิมพ์และหน้าเว็บวารสาร: ผู้พิมพ์ที่เชื่อถือได้ (Elsevier, Springer Nature, Wiley, IEEE ฯลฯ) หน้าเว็บระบุขั้นตอน peer review ชัดเจน
- ตรวจสอบเนื้อหางานวิจัย: วิธีวิจัย/สถิติ/ขนาดตัวอย่าง/ข้อจำกัดชัดเจน มี DOI และอ้างอิงคุณภาพ
- ดูการอ้างถึงและสถานะ: เช็ค “Cited by” ใน Scopus และดูว่าไม่มีการถอนตีพิมพ์ (Retraction Watch, Crossmark)
- ความโปร่งใส: เผยแหล่งทุน/ผลประโยชน์ทับซ้อน มีข้อมูล/โค้ดเปิดเผยเมื่อเหมาะสม
- เปรียบเทียบกับรีวิว/แนวทาง: หา review/meta-analysis ใน ScienceDirect
- ระวังสัญญาณเตือน: ไม่ถูกจัดทำดัชนีใน Scopus, รับ-ตีพิมพ์เร็วผิดปกติ, ค่าตีพิมพ์สูงแต่เว็บดูไม่น่าเชื่อถือ, DOI ตรวจสอบไม่ขึ้นใน Crossref, ชื่อวารสารคล้ายเบรอนด์ตั้งแต่ URL แปลก (hijacked journal)
- ถ้าไม่แน่ใจ ให้ใช้เช็กลิสต์ Think.Check.Submit และปรึกษาอาจารย์/นักวิจัย พร้อมตรวจซ้ำใน Scopus และอ่านฉบับเต็มจาก ScienceDirect/Elsevier เพื่อประเมินด้วยตัวเอง.

8) วิธีการตรวจสอบระดับ **Quartile** ของวารสารวิจัยทางสังคมศาสตร์ และนโยบายและแนวโน้มของ **Elsivier**

- เช็ค **Quartile** ให้ระบุหมวดและปีบนหน้า **Scopus Sources** ของวารสาร ส่วนด้านการตีพิมพ์ **Elsevier** เดินหน้า **OA/**ความโปร่งใส/จริยธรรม/ความเข้มของ **peer review** และกำหนดกรอบการใช้ **AI** อย่างรับผิดชอบ
-

9) หางานวิจัยหรือบทความที่ตรงความต้องการได้ยากในฐานข้อมูลทั่วไป แม้จะใช้คำสำคัญในการค้นหา

- Scopus: ใช้ Advanced + TITLE-ABS-KEY กับ AND/OR/AND NOT, “ ”

- ☐ ฟิลเตอร์ปี/สาขา/ประเภท; Analyze results

- ☐ ขยายด้วย References/Cited by/Related; ตั้ง Alerts

- ScienceDirect: ค้นหาแบบ Boolean

- ☐ ใส่ฟิลเตอร์ปี/ประเภท/สาขา

- ☐ เดินต่อด้วย Recommended/Cited by/References

- ☐ ค้นภายในวารสารเป้าหมาย



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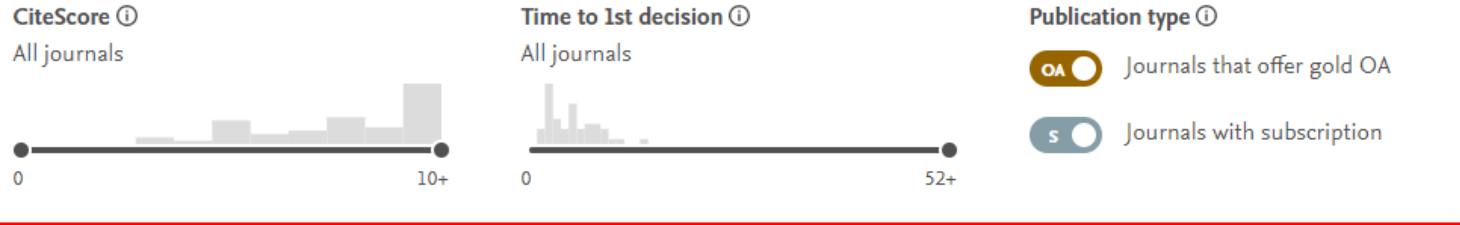
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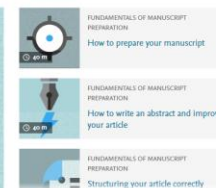
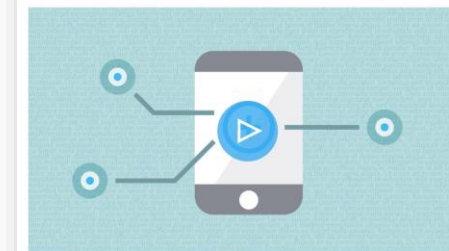
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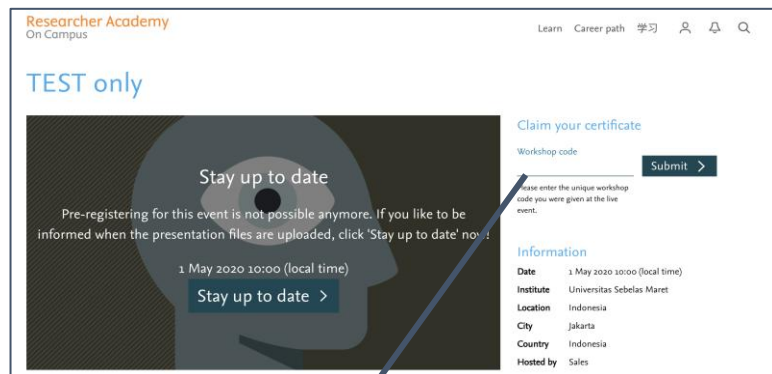
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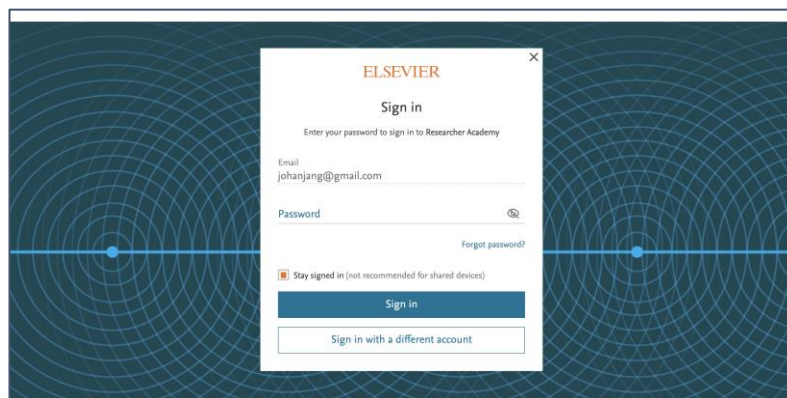
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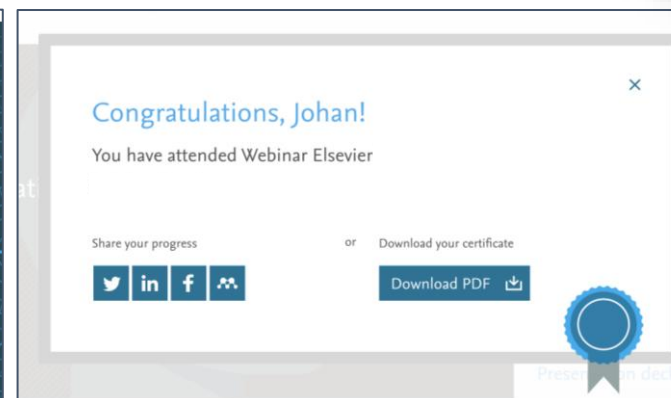
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