

Introduction to ScienceDirect, ScienceDirect AI and LeapSpace for research

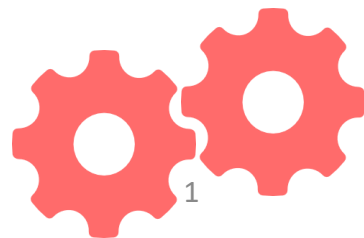
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Dr Yootapong Klinthongchai

Customer Success Manager

Elsevier South East Asia

y.klinthongchai@elsevier.com



Outline



1

Introducing to ScienceDirect

2

Introducing ScienceDirectAI

3

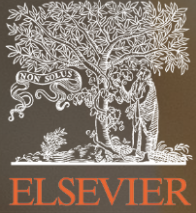
Introducing LeapSpace

4

Q&A



Introducing to ScienceDirect



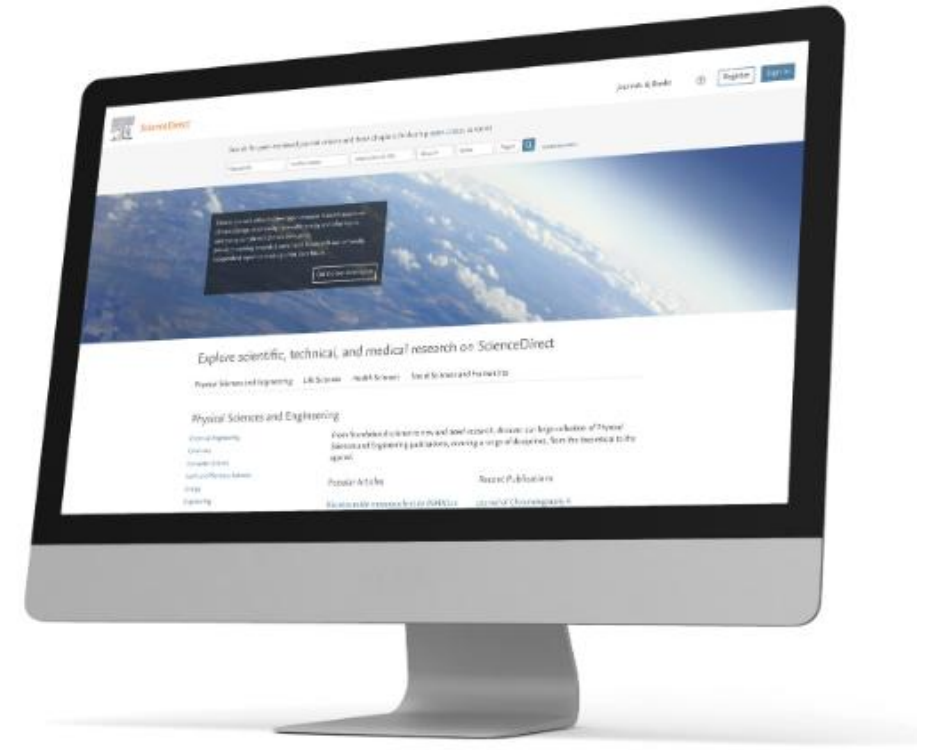
ScienceDirect

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data and peer-reviewed scholarly
information to move research forward

ScienceDirect

Researchers and students worldwide rely on authoritative and trusted information from Elsevier about the world's most pressing research and discovery questions.

- Develop foundational knowledge
- Explore fields of research, methods and materials
- Expand subject matter expertise
- Inform new ideas
- Stay up-to-date
- Gain in-depth insights into unfamiliar, emerging topics



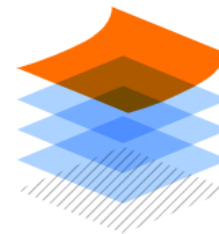
>20m articles



>2700 peer-reviewed journals



>46k eBooks



375k topic pages

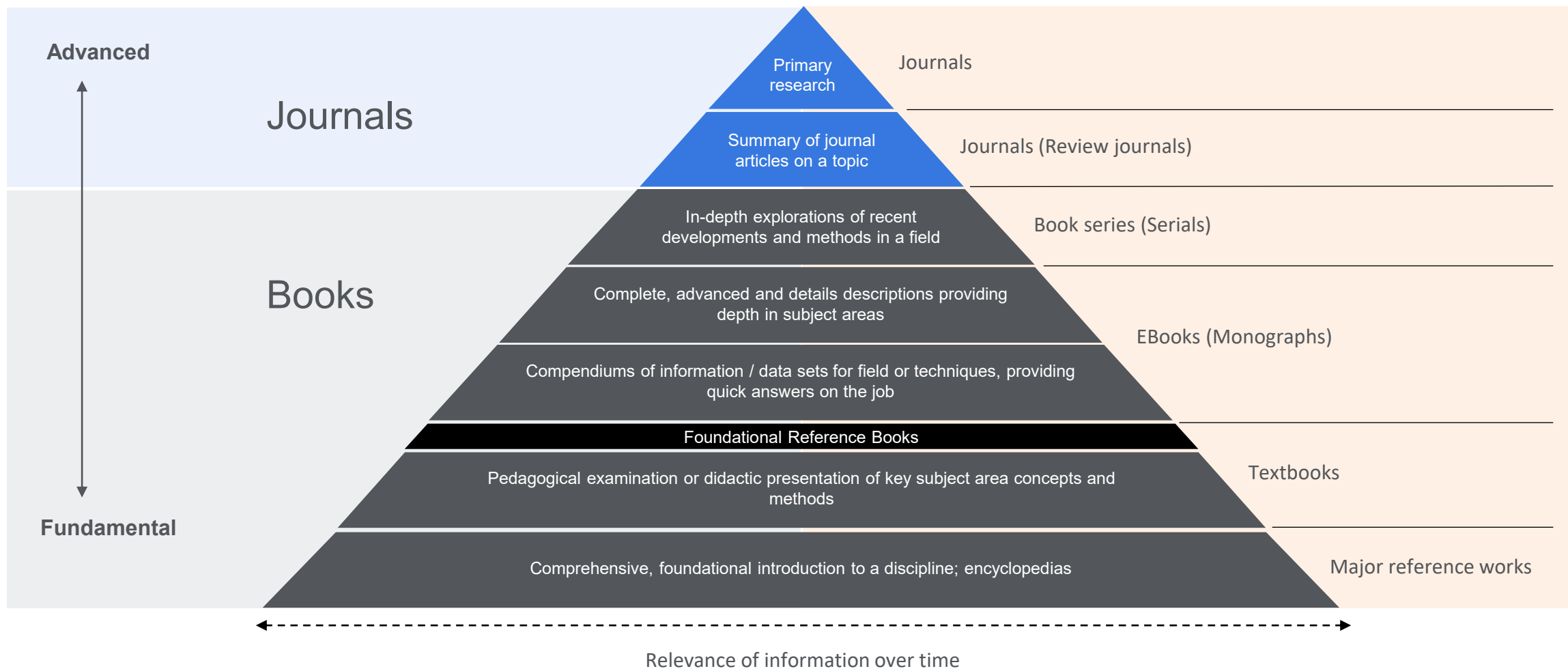


>600 open access publications



>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

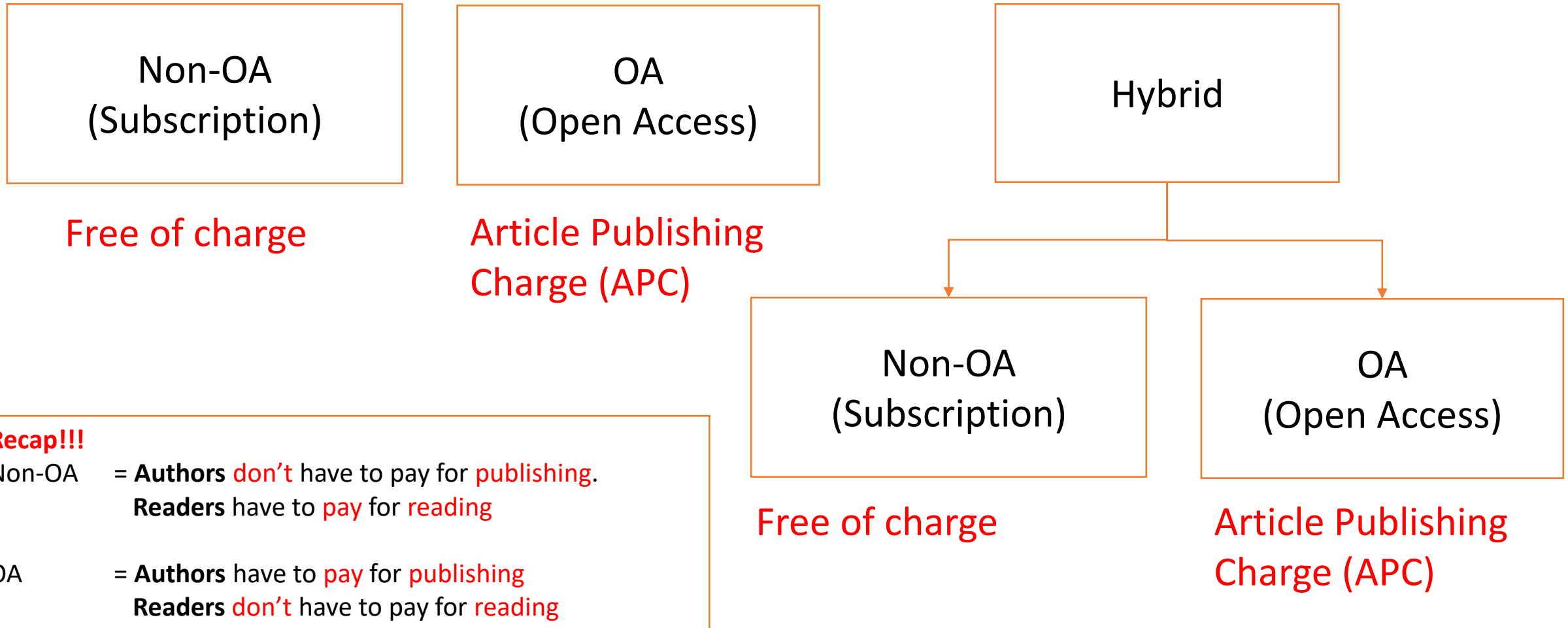
- Critical synthesis of a specific research topic
- Typically 10+ pages, 5+ figures, 80 references
- Typically solicited by journal editors
- Good way to consolidate a scientific research career



What are on ScienceDirect? Recap!!!

Types of content : OA vs Non-OA

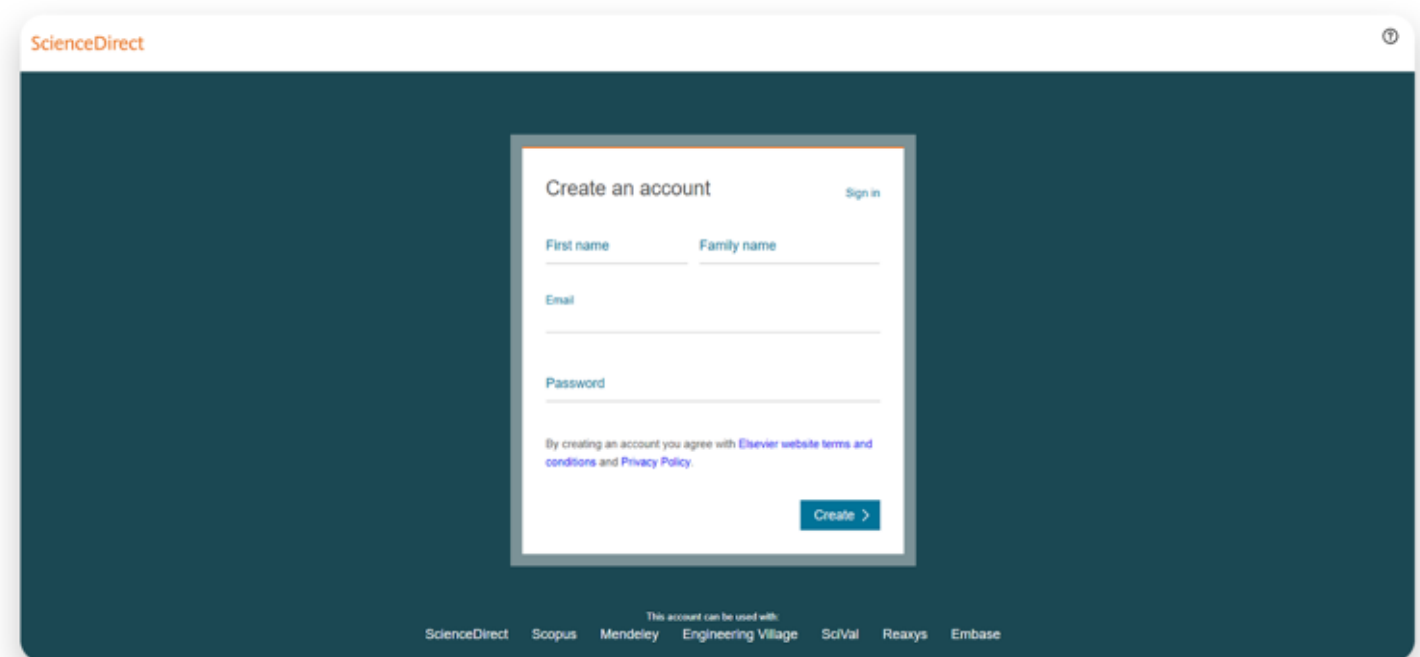
*OA= Open Access and *Non-OA= Subscription



Create a user account

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
- Receive recommendations personalized to your search history
- Access and manage your reading history
- Access ScienceDirect remotely outside your institution's IP range



The screenshot shows the ScienceDirect 'Create an account' form. The form is titled 'Create an account' and includes a 'Sign in' link. It has fields for 'First name', 'Family name', 'Email', and 'Password'. Below the fields, there is a note: 'By creating an account you agree with Elsevier website terms and conditions and Privacy Policy.' A 'Create >' button is at the bottom right of the form. At the bottom of the page, there is a footer that says 'This account can be used with:' followed by links to ScienceDirect, Scopus, Mendeley, Engineering Village, SciVal, Reaxys, and Embase.

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:



The screenshot shows the ScienceDirect search interface. At the top left is the ScienceDirect logo. To the right, there are links for 'Journals & Books', a help icon (question mark), and a user profile for 'Yoottapong Klinthongchai' with the initials 'YK'. Below this is a search bar with the text 'Search for peer-reviewed journal articles and book chapters (including open access content)'. The search bar contains several input fields: 'Keywords', 'Author name', 'Journal/book title', 'Volume', 'Issue', and 'Paç'. To the right of these fields is a magnifying glass icon and the text '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 

Research Workflow : ScienceDirect

1 Input the keyword

Find articles with these terms

Advanced search

Article detail

- Title
- Journal
- Authors

8,703 results

Set search alert

sorted by relevance | date

Download selected articles

Research article • Full text access

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

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.

Abstract

Research article • Full text access

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

Extracts: Related keyword input

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

Review article • Full text access

3 **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

Figures



2

Use the filter to focus more on specific area

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)

3

Research article • Full text access

4 **Gender differences in outcomes of bullying prevention programs: A meta-analysis**
 Children and Youth Services Review, 24 September 2020, ...
 Reeve S. Kennedy

Conference abstract • Full text access

5 **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

Research article • Open access

6 **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, María Serra-Blasco, ... Narcís Cardoner

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)


- Table 1
- Table 2
- Table 3
- Table 4
- Table 5
- Table 6

Show all tables

Journal



International Journal of Educational Research
Volume 110, 2021, 101881



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1 2 Next

Title and authors

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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<https://doi.org/10.1016/j.ijer.2021.101881> Get rights and content

Highlights

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

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

Article Metrics

Article Metrics

Captures

Readers: 11



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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 extensively and that are used to investigate object or target visual motion are the system that contains figure detection (FD) cells in the [blowfly](#) [4]; the system that contains small target

Find articles with these terms

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

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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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Personalize



Enhancing Fundamental Knowledge

- Users can select any keyword or text to get quick and authoritative search results
- 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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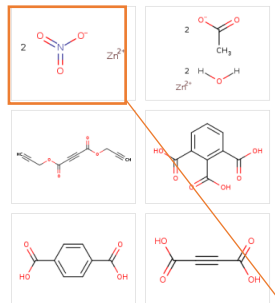
Tetrahedron
Go to Tetrahedron on ScienceDirect
16, 36, 1 September 2008, Pages 8553-8557

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

David J. Tranchemontagne, 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 isorecticular 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.



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

FEEDBACK

Reaxys substance information 1/7

zinc(II) nitrate

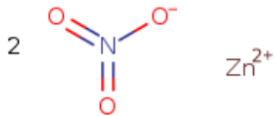
Other chemical names
zinc nitrate
 $Zn(NO_3)_2$
zinc dinitrate

Molecular formula
 N_2O_6Zn

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



46 Hits/Conditions Find Similar 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



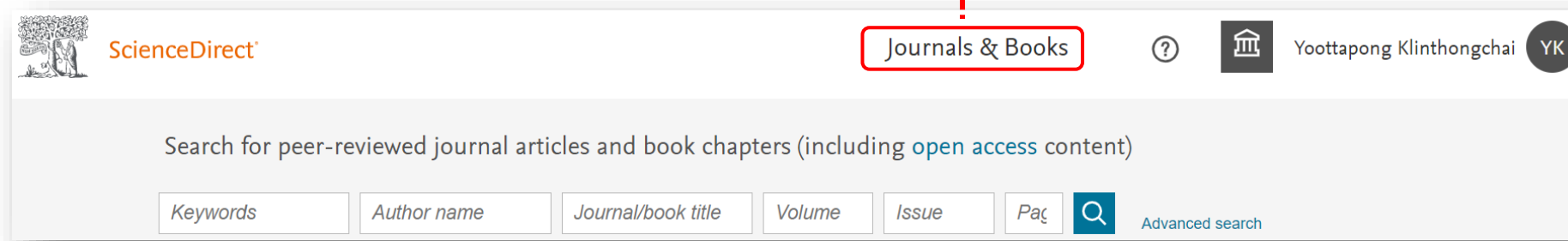
Uncover valuable insights

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

Introducing to Sciencedirect

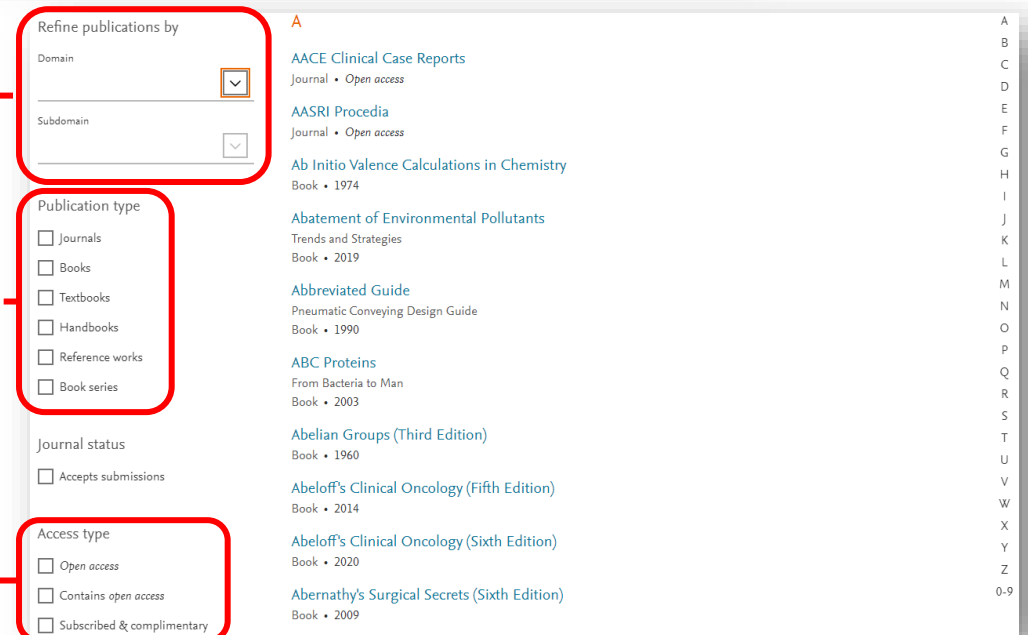
Browsing

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

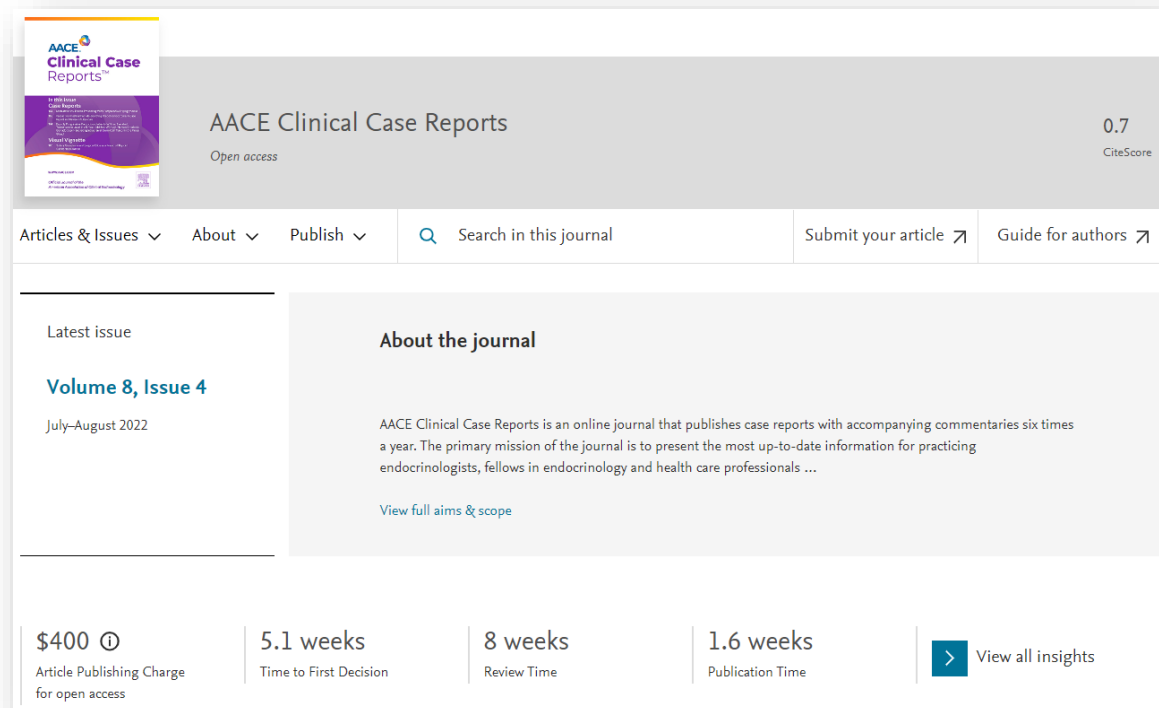


Journal homepages easier to evaluate

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 includes the journal title, 'Open access' status, and a CiteScore of 0.7. A navigation bar contains 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). At the bottom, a row of metrics is presented in cards: Article Publishing Charge for open access (\$400), Time to First Decision (5.1 weeks), Review Time (8 weeks), and Publication Time (1.6 weeks), followed by 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 the following information:

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

The 'About the journal' section provides a brief description: 'Chemosphere is an international journal designed for the publication of original communications as articles on chemicals in the environment. Chemosphere, as a multidisciplinary journal, offers maximum dissemination of investigations related to all aspects of the identification, ...'

The screenshot shows the 'Journal Insights' dropdown menu on the Chemosphere journal website. The menu items are:

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

The 'Journal Insights' page 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

<https://www.sciencedirect.com/journal/chemosphere/about/insights>

Book homepages offer clearer identity

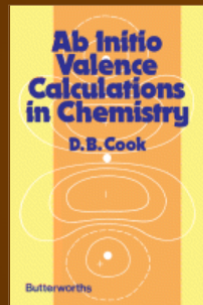
When you access books on ScienceDirect, you'll see right away that you're consulting a trusted, high-quality source. The book homepages include:

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Ab Initio Valence Calculations in Chemistry

Book • 1974



Authors:
D.B. COOK

↓ About the book

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↓ By table of contents

Book description

Ab Initio Valence Calculations in Chemistry describes the theory and practice of ab initio valence calculations in chemistry and applies the ideas to a specific example, linear BeH ... [read full description](#)

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Access ScienceDirect via topic pages, delivering free, critical and contextual information at the time of need

Using **artificial intelligence**, **machine learning algorithms** and **natural language processing tools**, topic pages build a bridge between **book and journal** content to surface comprehensive, interdisciplinary knowledge that answers research questions, deepens users' understanding of a specific topic and fosters getting up to speed

The screenshot shows the ScienceDirect Topics interface. On the left, a grid of topic categories is displayed with their respective article counts:

Topic	Count
Agricultural and biological sciences	30,269
Biochemistry, genetics and molecular biology	27,269
Chemical engineering	1,369
Chemistry	18,941
Earth and planetary sciences	
Economics, econometrics and finance	
Engineering	
Food science	
Immunology and microbiology	

The right panel shows a detailed view for 'Topics in Economics, Econometrics and Finance'. It includes a search bar, a description of the topic's coverage, and a list of related terms: Abatement Cost, Absenteeism, Academic Discipline, and All.

The infographic highlights four key features of ScienceDirect topic pages:

- 375,000 topic pages**
- Covering 20 scientific disciplines**
- Hyperlinked from 10 million journal articles and book chapters**
- Freely available, with 22 million visits per month**

A new age of discovery: Using machine learning to generate topic pages

Taxonomy Building
Over 15 taxonomies in different fields have been used to identify the most important concepts to build topic pages.

Data Mining
We run our taxonomies across all Elsevier's book content and other reference material to identify potential candidates for extraction.

Algorithmic Information Extraction
We then use natural language processing algorithms to ensure the right sections of content are being chosen.

Quality Confirmation
By collecting feedback from subject matter experts and measuring quality, topic pages are continuously improving.

Relevancy Ranking
Heuristic techniques are used to rank definitions and snippets to push the most relevant and diverse information to the top.



Enhancing Fundamental Knowledge

- A central place from which to start the path of discovery and understanding

- **375,000+** pages across **20** subject areas, hyperlinked from **10 million** journal articles
- Over **22 million** visits per month, **2nd** most visited after article pages

ScienceDirect topics expand your knowledge with foundational content

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

[View all Topics >](#)

[+ Add to Mendeley](#) [Download as PDF](#) [Set alert](#)

[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

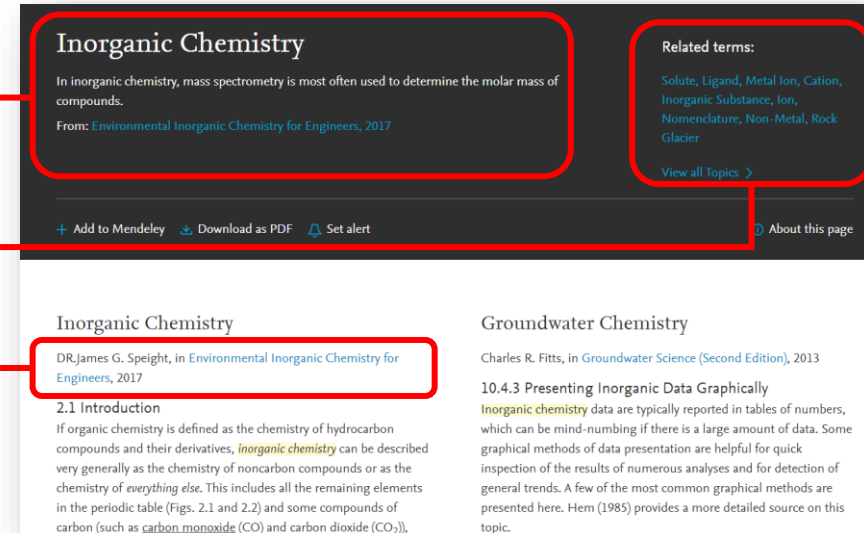
10.4.3 Presenting Inorganic Data Graphically

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.

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'. It features a dark header with the title 'Inorganic Chemistry' and a short definition: 'In inorganic chemistry, mass spectrometry is most often used to determine the molar mass of compounds.' Below the definition is the source: 'From: Environmental Inorganic Chemistry for Engineers, 2017'. To the right, a 'Related terms' box lists: 'Solute, Ligand, Metal Ion, Cation, Inorganic Substance, Ion, Nomenclature, Non-Metal, Rock Glacier'. At the bottom of the header are links for '+ Add to Mendeley', 'Download as PDF', 'Set alert', and 'About this page'. The main content area shows two columns: 'Inorganic Chemistry' with a sub-section '2.1 Introduction' and 'Groundwater Chemistry' with a sub-section '10.4.3 Presenting Inorganic Data Graphically'. Red lines connect the bullet points in the 'You'll see' section to these elements in the screenshot.

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

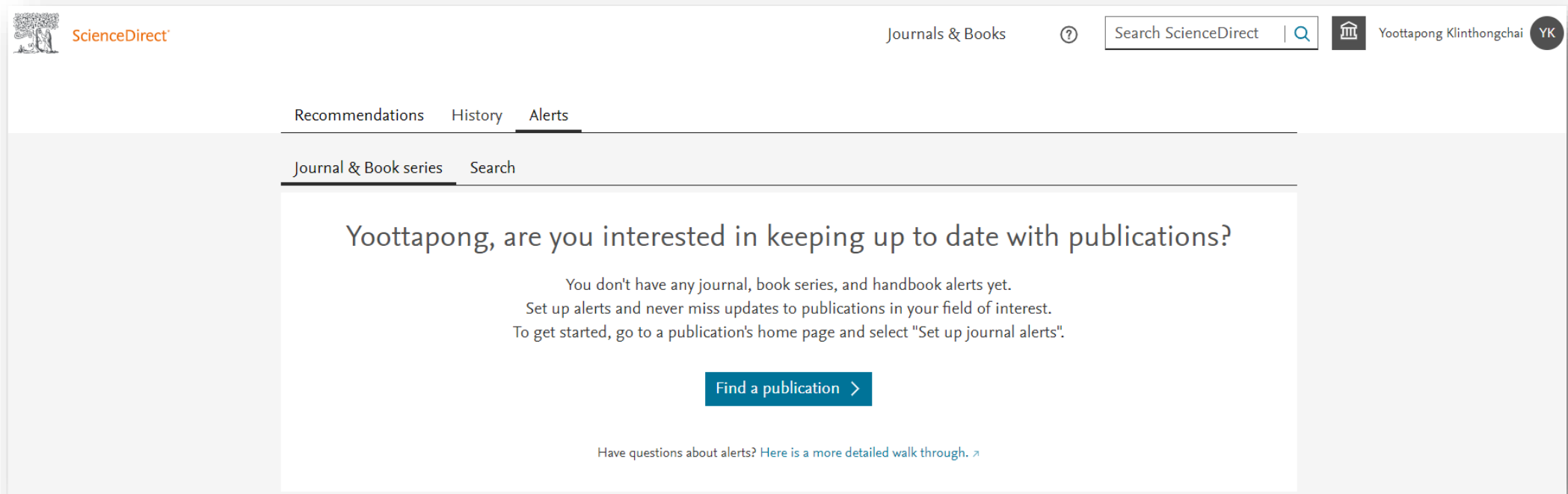
If you're using Google or another search engine to get more information about a term, just enter the term and ScienceDirect, and it comes up. With enhanced taxonomy across all 20 Topic domains, Topic pages are available for many disciplines including:

- 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 left is the ScienceDirect logo. To the right, there are navigation links for 'Journals & Books', a search bar containing 'Search ScienceDirect', and a user profile for 'Yootapong Klinthongchai' with the initials 'YK'. 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: 'Yootapong, are you interested in keeping up to date with publications? You don't have any journal, book series, and handbook alerts yet. Set up alerts and never miss updates to publications in your field of interest. To get started, go to a publication's home page and select "Set up journal alerts".' Below this message is a blue button labeled 'Find a publication >'. At the bottom, there is a link: 'Have questions about alerts? Here is a more detailed walk through. >'

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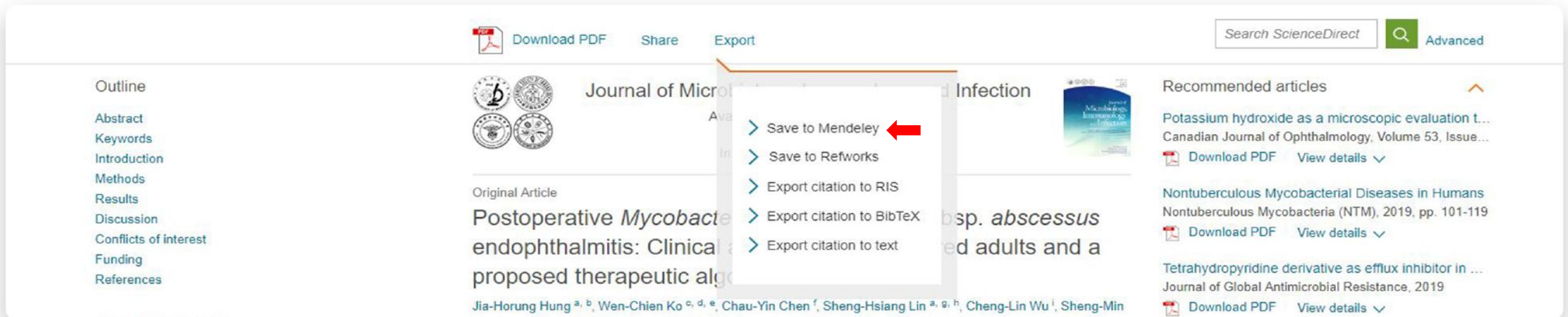
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A screenshot of the ScienceDirect website's Reading History page. The page shows a navigation bar with "Journals & Books", a search bar, and a user profile for "Yootapong Klinthongchai". Below the navigation, there are tabs for "Recommendations", "History", and "Alerts". Under the "History" tab, there are sub-tabs for "Search history" and "Reading history". The main content area is titled "Your search history on ScienceDirect" and includes a toggle switch for "Save search history" which is currently turned "On". Below this, there is a section for "Today - Monday, 5 September 2022" with options to "Download history as CSV" and "Delete all". Two search entries are listed: "chemistry" at 13:15 with 3,001,581 results, and "cyberbullying" at 12:41 with 2,678 results. Each entry has "Re-run search" and "Only show me new results" options. A "FEEDBACK" button is visible in the bottom right corner.

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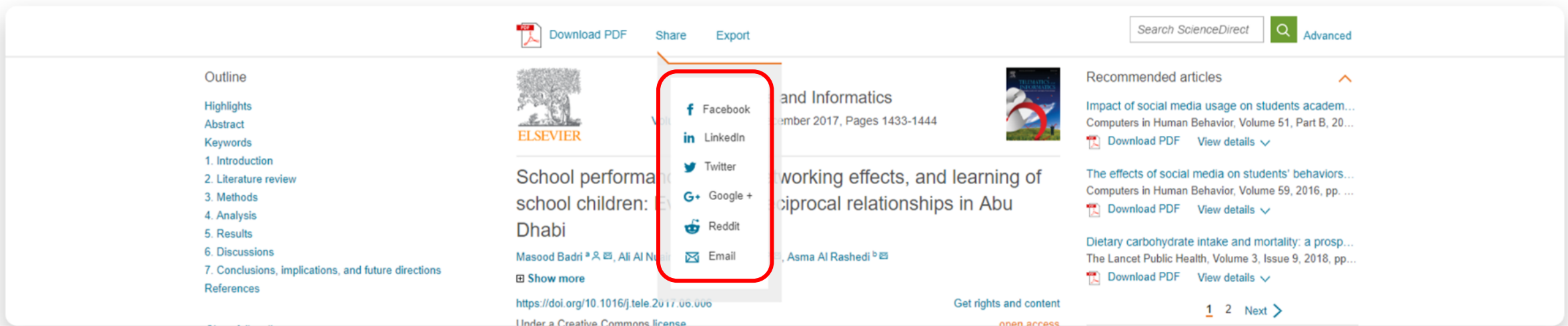


The screenshot displays the ScienceDirect interface for an article. At the top, there are navigation options: 'Download PDF', 'Share', and 'Export'. The 'Export' menu is open, showing a list of options: 'Save to Mendeley' (highlighted with a red arrow), 'Save to Refworks', 'Export citation to RIS', 'Export citation to BibTeX', and 'Export citation to text'. The article title is 'Postoperative Mycobacterium abscessus endophthalmitis: Clinical and proposed therapeutic algorithm'. The authors listed are Jia-Horung Hung, Wen-Chien Ko, Chau-Yin Chen, Sheng-Hsiang Lin, Cheng-Lin Wu, and Sheng-Min. On the right side, there are 'Recommended articles' with titles like 'Potassium hydroxide as a microscopic evaluation...' and 'Nontuberculous Mycobacterial Diseases in Humans'.

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The screenshot displays the ScienceDirect interface for an article. At the top, there are navigation options: 'Download PDF', 'Share', and 'Export'. A search bar with 'Search ScienceDirect' and an 'Advanced' search button is also visible. The article title is 'School performance and learning of reciprocal relationships in Abu Dhabi', and the authors are 'Masood Badri' and 'Asma Al Rashedi'. A red box highlights the social sharing icons: Facebook, LinkedIn, Twitter, Google+, Reddit, and Email. The article is from 'Computers in Human Behavior', Volume 51, Part B, 2017, Pages 1433-1444. On the right, there are 'Recommended articles' with their respective titles and 'Download PDF' links. The page number '1' and a 'Next' button are at the bottom right.

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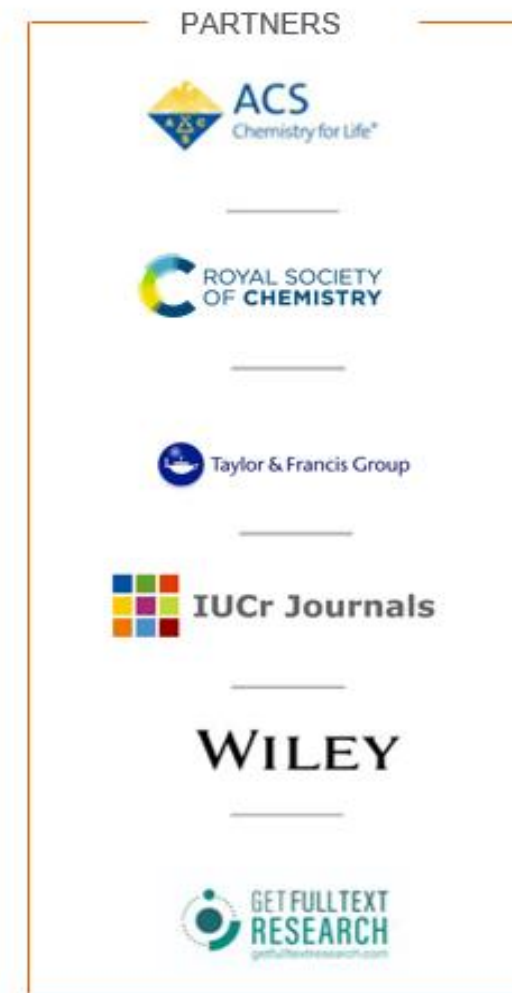
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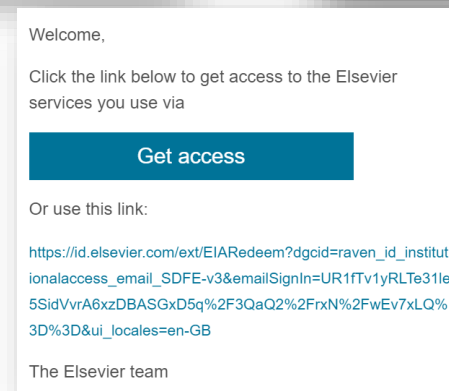
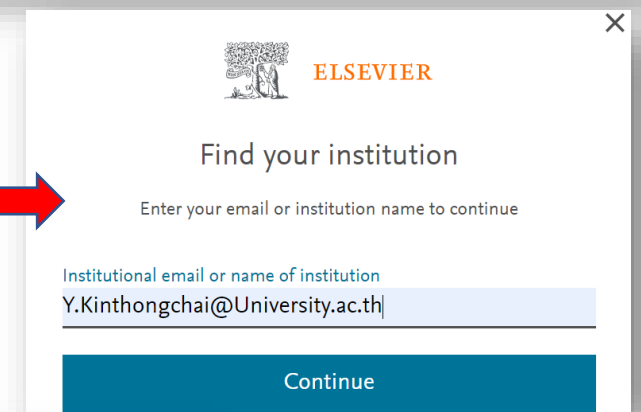
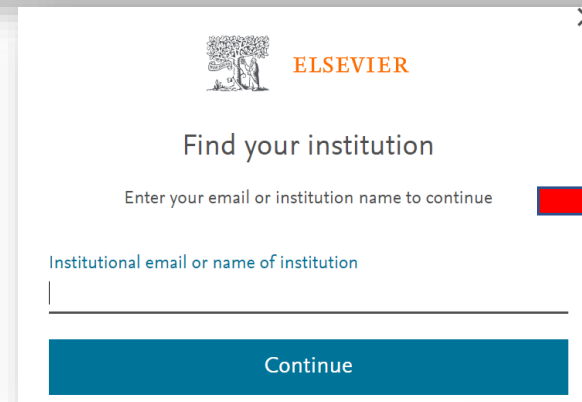
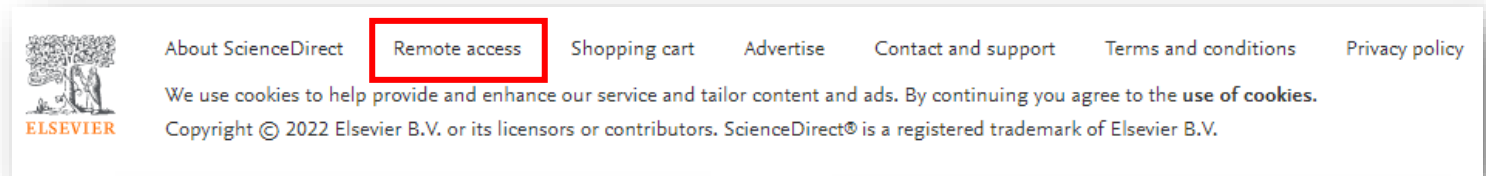
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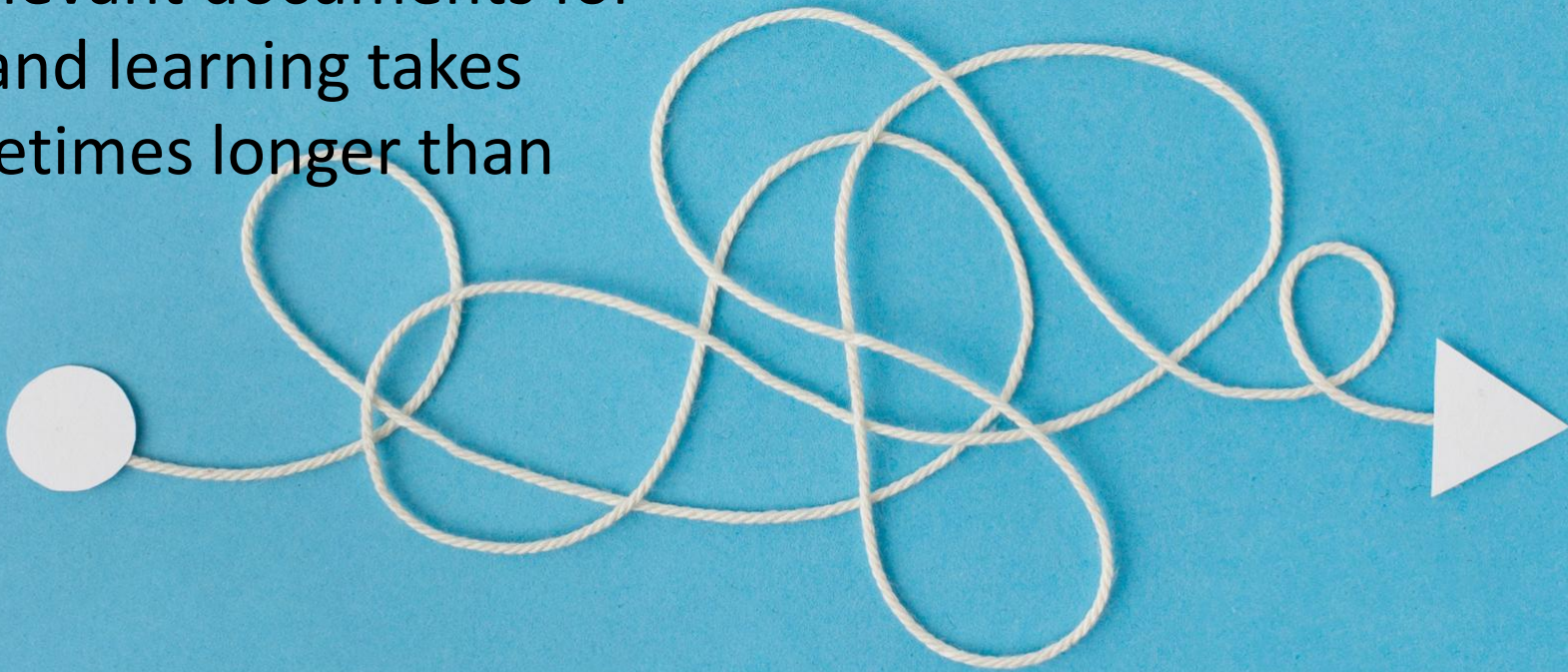
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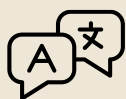
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Summary

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

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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 ด้วยเทคนิคฟีโนล-คลอโรฟอร์ม

หลักการพื้นฐาน:

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

ขั้นตอนการสกัด:

1. **เตรียมตัวอย่าง:**

- นำตัวอย่างที่ถูกทำลายเซลล์หรือบดละเอียดใส่ในหลอดไมโครเซนตริฟิวจ์ (Sharma et al., 2023).
- เติมฟีโนล-คลอโรฟอร์มในอัตราส่วน 1:1 โดยฟีโนลต้องปรับค่า pH เป็น 8.0 และเติมไอโซอะมีลแอลกอฮอล์ในคลอโรฟอร์ม (24:1) เพื่อป้องกันการเกิดฟอง (Sharma et al., 2023).

2. **การผสมและปั่นเหวี่ยง:**

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ARTICLE	EXPERIMENT / STUDY	GOAL	MATERIALS	METHODS	RESULTS	CONCLUSION	FEEDBACK
<p>Article</p> <p>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 »</p> <p>Prabhu Durai, Arulvasu Chinnasamy, ... Ashokkumar Thirunavukkarasu</p> <p>European Journal of Medicinal Chemistry • Volume 84 • 2014</p> <p>Export data (CSV)</p>	<p>Synthesis and characterization of silver nanoparticles</p>	<p>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.</p>	<p>Sodium para-hydroxybenzoate tetrahydrate (SPHT), 1 mM silver nitrate (AgNO₃) solution</p>	<p>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 (λ_{max}) 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.</p>	<p>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.</p>	<p>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.</p>	<p>How would you rate this summary?</p> <p>☆☆☆</p>
	<p>Cell viability and apoptosis analysis</p>	<p>To evaluate the antiproliferative and apoptotic effects of SPHT and SPHT-AgNPs on human colon cancer cell lines HCT15 and HT-29.</p>	<p>Human colon cancer cell lines HCT15 and HT-29, MTT reagent, Annexin V-FITC/PI apoptosis detection kit</p>	<p>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.</p>	<p>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.</p>	<p>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.</p>	<p>How would you rate this summary?</p> <p>☆☆☆</p>
<p>Article</p> <p>Investigating the cytotoxicity of iron oxide nanoparticles in in vivo and in vitro studies »</p> <p>Sarieh Ghasempour, Mohammad Ali Shokrgozar, ... Mohsen Alipour</p> <p>Experimental and Toxicologic Pathology • Volume 67 • 2015</p> <p>Export data (CSV)</p>	<p>In vitro cell viability study</p>	<p>To evaluate the cytotoxicity of 200 and 400μg/mL modified and non-modified iron oxide nanorods on mouse fibroblast (L929) cells</p>	<p>L929 mouse fibroblast cells, Dulbecco's Modified Eagle Medium (DMEM), Fetal Bovine Serum (FBS), iron oxide nanorods</p>	<p>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.</p>	<p>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.</p>	<p>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.</p>	<p>How would you rate this summary?</p> <p>☆☆☆</p>
	<p>In vitro cell cycle analysis</p>	<p>To investigate the effect of 200μg/mL modified iron oxide nanorods on cell cycle parameters of L929 cells</p>	<p>L929 mouse fibroblast cells, 200μg/mL modified iron oxide nanorods</p>	<p>L929 cells were exposed to 200μg/mL modified iron oxide nanorods for 24 hours. Cell cycle distribution was analyzed using flow cytometry.</p>	<p>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.</p>	<p>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.</p>	<p>How would you rate this summary?</p> <p>☆☆☆</p>
	<p>In vivo toxicity study</p>	<p>To evaluate the in vivo effects of 200μg/mL modified iron oxide nanorods on liver and kidney function in Wistar rats</p>	<p>Wistar rats, 200μg/mL modified iron oxide nanorods, 0.9% saline</p>	<p>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.</p>	<p>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.</p>	<p>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.</p>	<p>How would you rate this summary?</p> <p>☆☆☆</p>

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ARTICLE	EXPERIMENT / STUDY	GOAL	MATERIALS	METHODS	RESULTS	CONCLUSION
<p> Article</p> <p>Source prevention or end-of-pipe treatment? Green public procurement and corporate environmental investment strategies </p> <p>Renjie Zhang, Guiyi Zhu</p> <p><i>Journal of Environmental Management</i> • Volume 379 • 2025</p> <p> Export data (CSV)</p>	<p> Empirical study on the relationship between GPP and corporate environmental investment strategies</p>	<p>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.</p>	<p>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</p>	<p>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.</p>	<p>GPP significantly promotes enterprises' preventive environmental investments, but has no obvious effect on end-of-pipe treatment investments.</p>	<p>Enterprises obtaining green procurement orders tend to adopt a source prevention environmental investment strategy in response to increasing environmental pressures from GPP.</p>

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International Journal of Information Management Data Insights

Volume 3, Issue 2, November 2023, 100205

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Maria DSouza Deryl  , Sanjeev Verma, Vartika Srivastava

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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

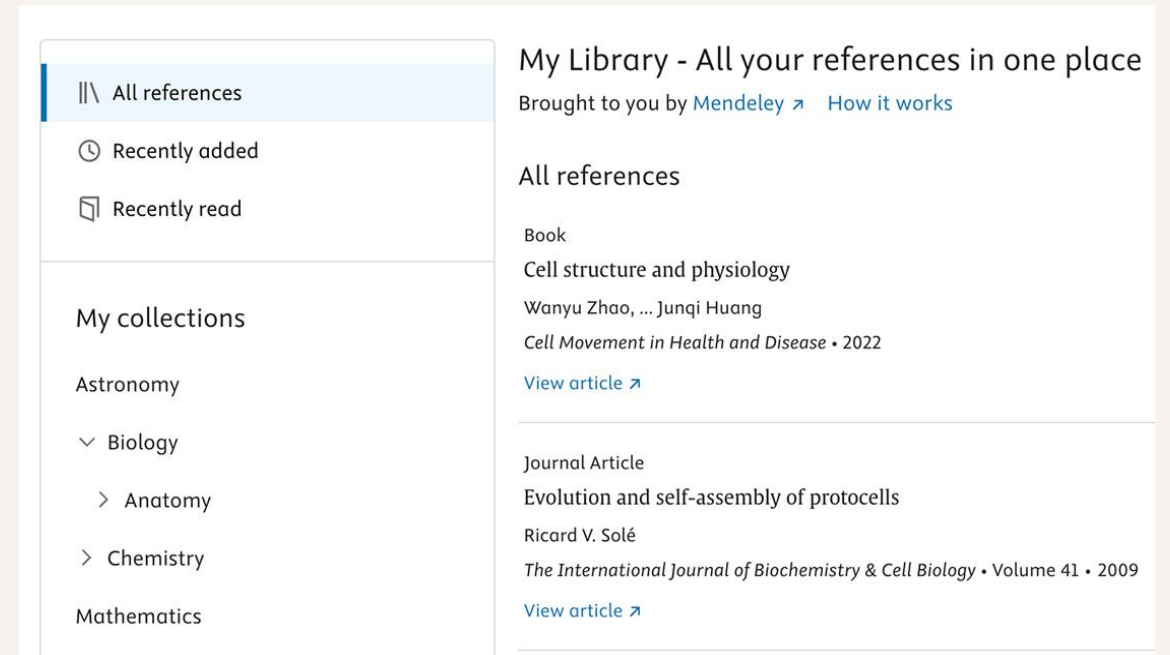
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 - Reference space to save and view papers discovered using ScienceDirect AI
 - Any citations saved via My library will also be accessible through Mendeley and vice-versa
 - You can access My Library using the floating AI widget
- **The results:**
 - View all citations in a single place for easier reference management
 - Navigate between finding relevant scientific literature and reviewing your citations seamlessly
- **Use cases:**
 - Saving citations to review later
 - Collecting relevant citations for a literature review
 - Keep track of and organize citations saved over time



The screenshot displays the 'My Library' interface. On the left is a sidebar with the following sections: 'All references' (highlighted), 'Recently added', and 'Recently read'. Below these is 'My collections' with sub-items: 'Astronomy', 'Biology' (expanded to show 'Anatomy' and 'Chemistry'), and 'Mathematics'. The main content area is titled 'My Library - All your references in one place' and includes links for 'Mendeley' and 'How it works'. It lists two references: a book 'Cell structure and physiology' by Wanyu Zhao, Junqi Huang (2022) and a journal article 'Evolution and self-assembly of protocells' by Ricard V. Solé (2009).

Tested by

70

Institutions

30,000

Researchers

"These tools have significantly enhanced my research by streamlining literature reviews and providing insightful summaries, which saves time and improves understanding of complex topics. "

– *Faculty member, Hong Kong*

"I like the user-friendly interface and the easiness to using the tool. I find the reading assistant most valuable as it drastically reduces the reading time of articles and helps me to identify the most important parts within seconds."

– *Postdoctoral Researcher, Netherlands*

"The summary of articles cut my reading time in half, and I love the comparison table of the articles. Excellent all-around tool!" "

– *Faculty member, Trinidad and Tobago*

"ScienceDirect's AI tool has transformed the way I work. Amidst AI tools that hallucinate or provide false information, this tool stands out for its precision. The quality of information spares me hours of search. Its effectiveness has allowed me to expand the scope of my research projects, investigate more diverse lines of research and produce superior work."

- *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?

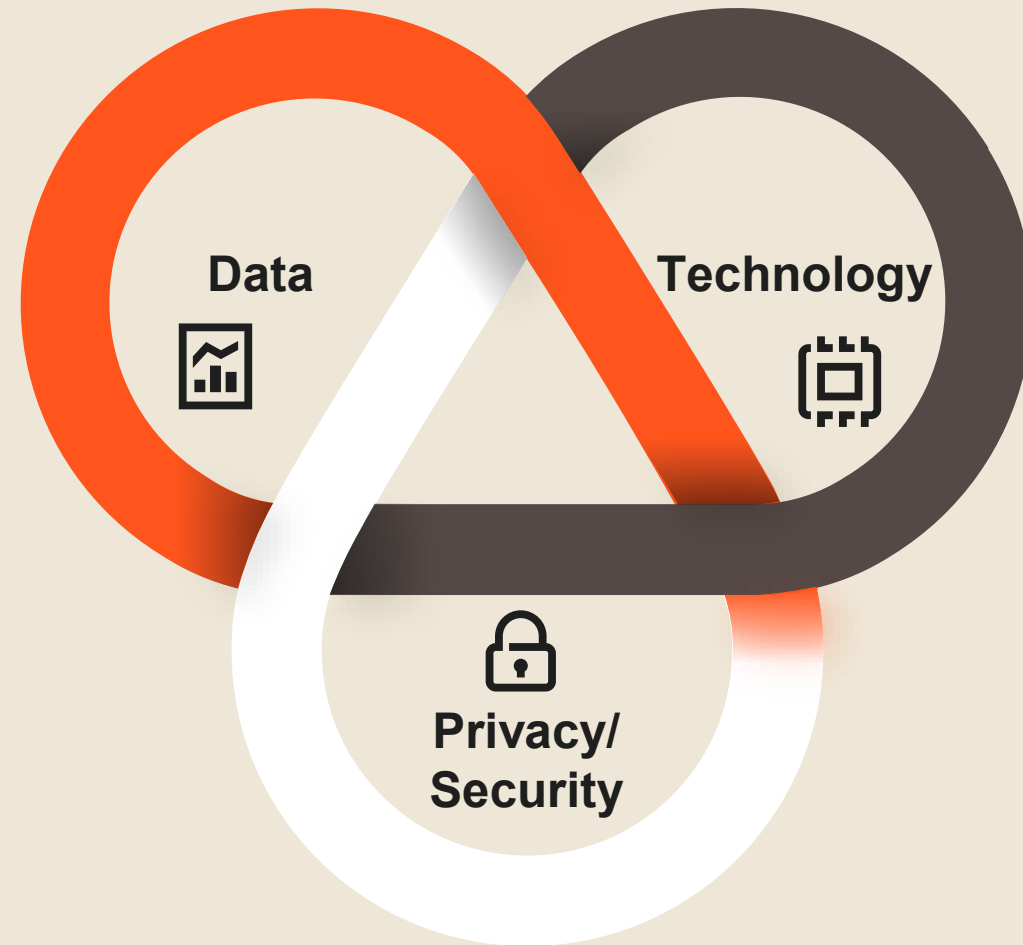
No, but most of the articles from 1995 onwards (available in XML format), with some exceptions (some society content was excluded) and some older content where available.

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

ELSEVIER

Trusted & Quality
Content: millions of full
text articles

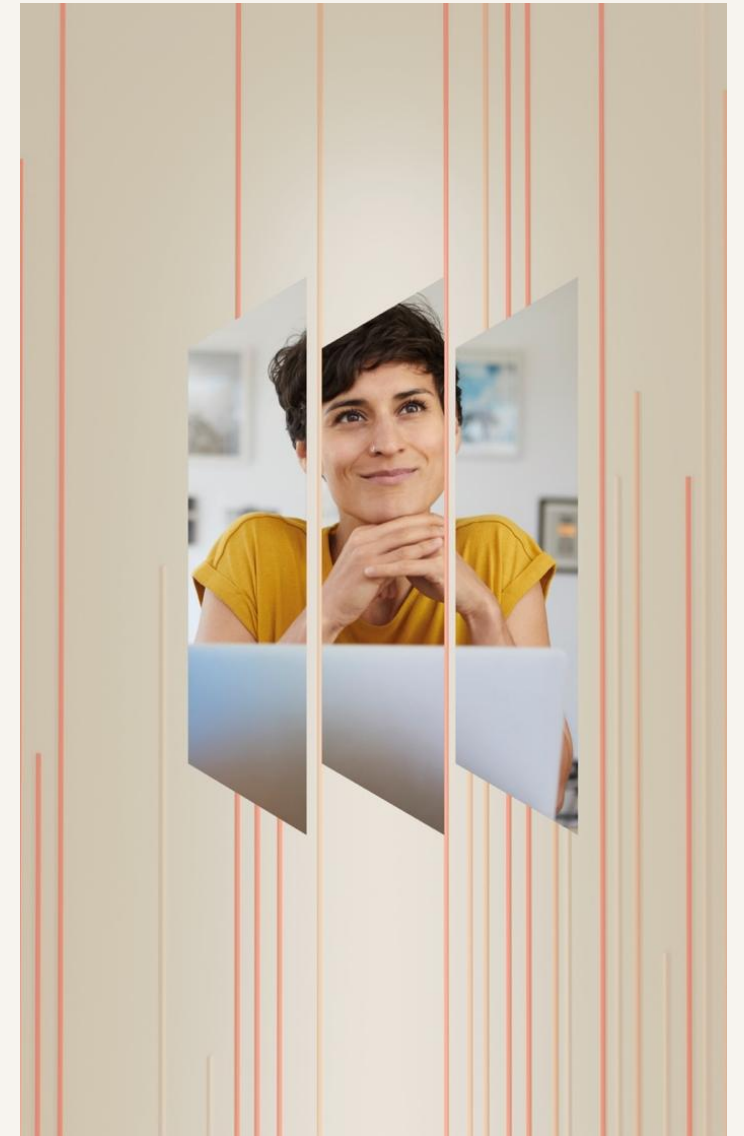
Reliable
technology

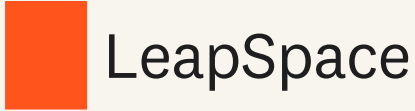


Developed in line with Elsevier's **Responsible AI Principles** and **Privacy Principles** to ensure the highest standards of data privacy and security.

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





LeapSpace: Onboarding

05/03/2026

Dr Yottapong Klinthongchai
Customer Success Manager, Elsevier
y.klinthongchai@elsevier.com



ELSEVIER

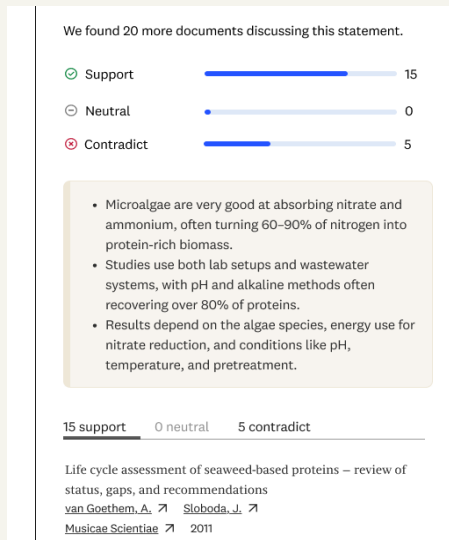


What would you like to learn more about?

+ Deep research 

What makes LeapSpace different from your average LLM?

Trust Cards provide context and transparency to all results



AI trained on global corpus of trusted scientific content

Scopus

ScienceDirect

Innovations: RAG model, vector search, prompt engineering, ethical AI principles

[Read our Ethical AI guidelines](#)

What sets LeapSpace apart?

1



High quality content and data:

Unmatched **publisher-neutral** depth and breadth across abstracts, full-text and data, selected by independent board and updated daily

2



Trust and transparency:

Trust Cards show sources, surface contradictions and help you calibrate the strength of the evidence

3



Human-in-the-loop development:

Every update goes through rigorous testing with subject-matter experts and follows Responsible AI Principles

4



Best workflow coverage:

Discovery, interdisciplinary research design, funding and collaboration opportunities – LeapSpace is ready to assist you

5



Enhanced critical thinking

Encourages verification while reducing bias, so you can apply your expert judgement and produce original research

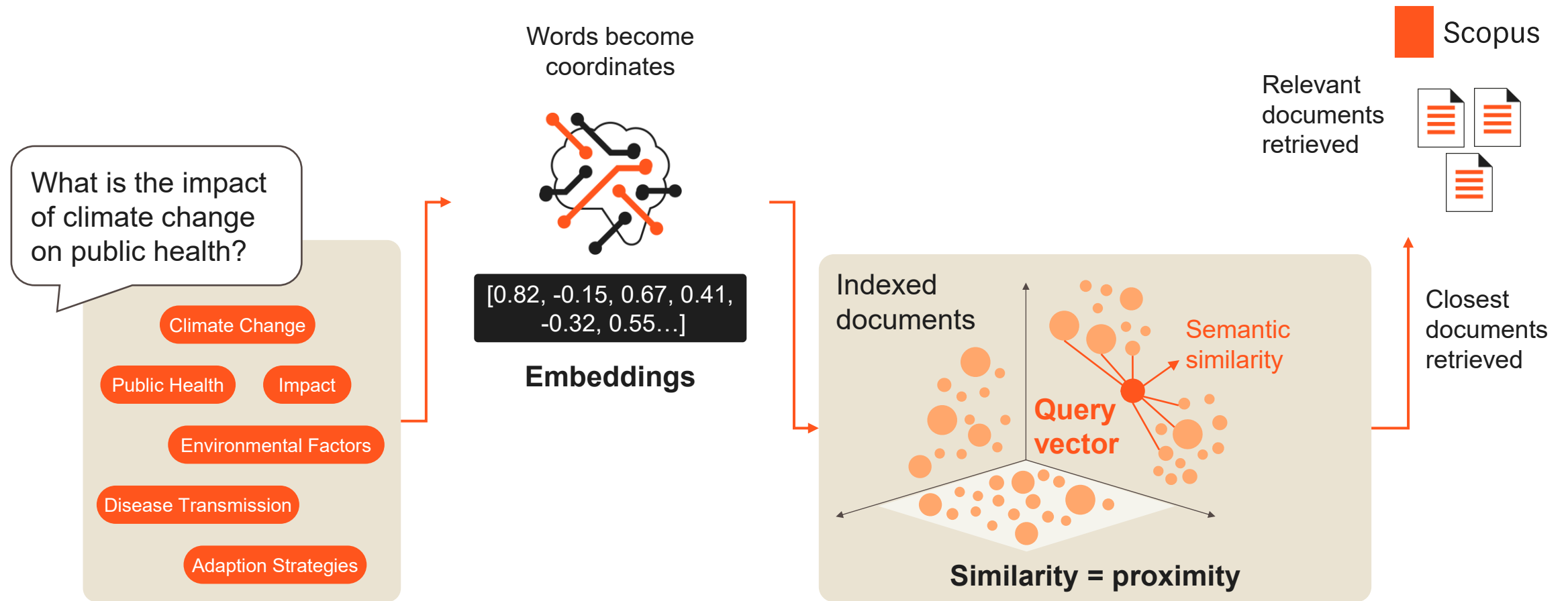
6



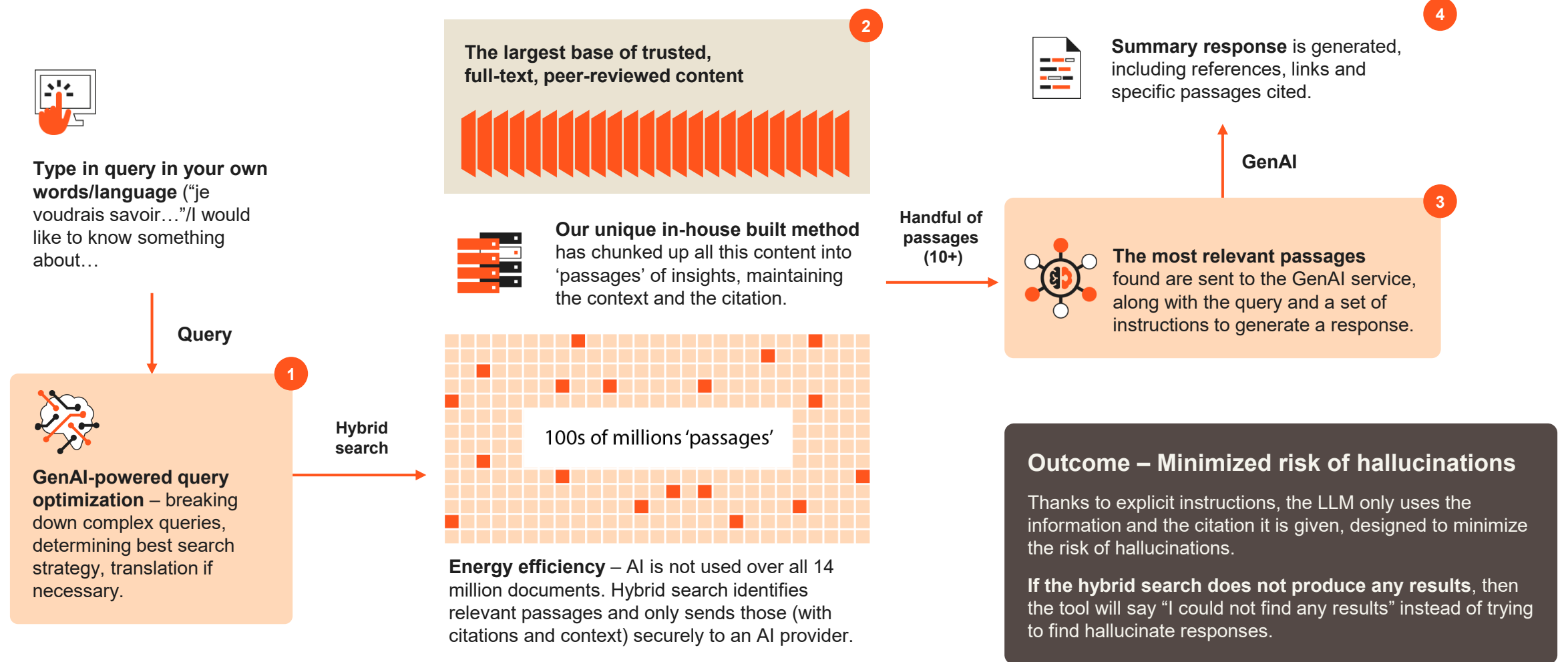
Enterprise-grade privacy & security:

Everything you do in LeapSpace is private, secure and encrypted, and your data is not used to train any LLMs

Vector Search: from words to meaning



How LeapSpace works



Designed around Researchers' day-to-day activities: free up more time for research



LeapSpace isn't designed to "do a researcher's job" – just equip them with the insights to do it more effectively

Learning about the topic space

Reading articles

Comparing papers

Exploring complex questions

Finding collaborators

Identifying funding opportunities

Visualizing insights

- **LeapSpace covers multiple research workflow use cases, offering in-depth support for collaboration and funding as well as core research – all in one place.**
- General AI tools benefit researchers by streamlining core tasks like literature reviews, data collection and ideation, but this is a fraction of their real workflow.
- On average researchers spend only a third of their day on "research" – the rest is devoted to adjacent tasks like finding collaborators or funding, teaching, supervising postgrads, attending departmental meetings, peer review etc.

Source:

UK [Research Professional]

Australia [Journal of Higher Education Policy & Management]

USA [University of Wisconsin]

Reducing bias and hallucinations



1



Draws exclusively on
scholarly content

2



Custom built to work with
the solutions it leverages

3



Strict **prompt
engineering**

4



References enable claims to
be traced back to their source

5



Regularly evaluated using
industry-recognized and
customized frameworks

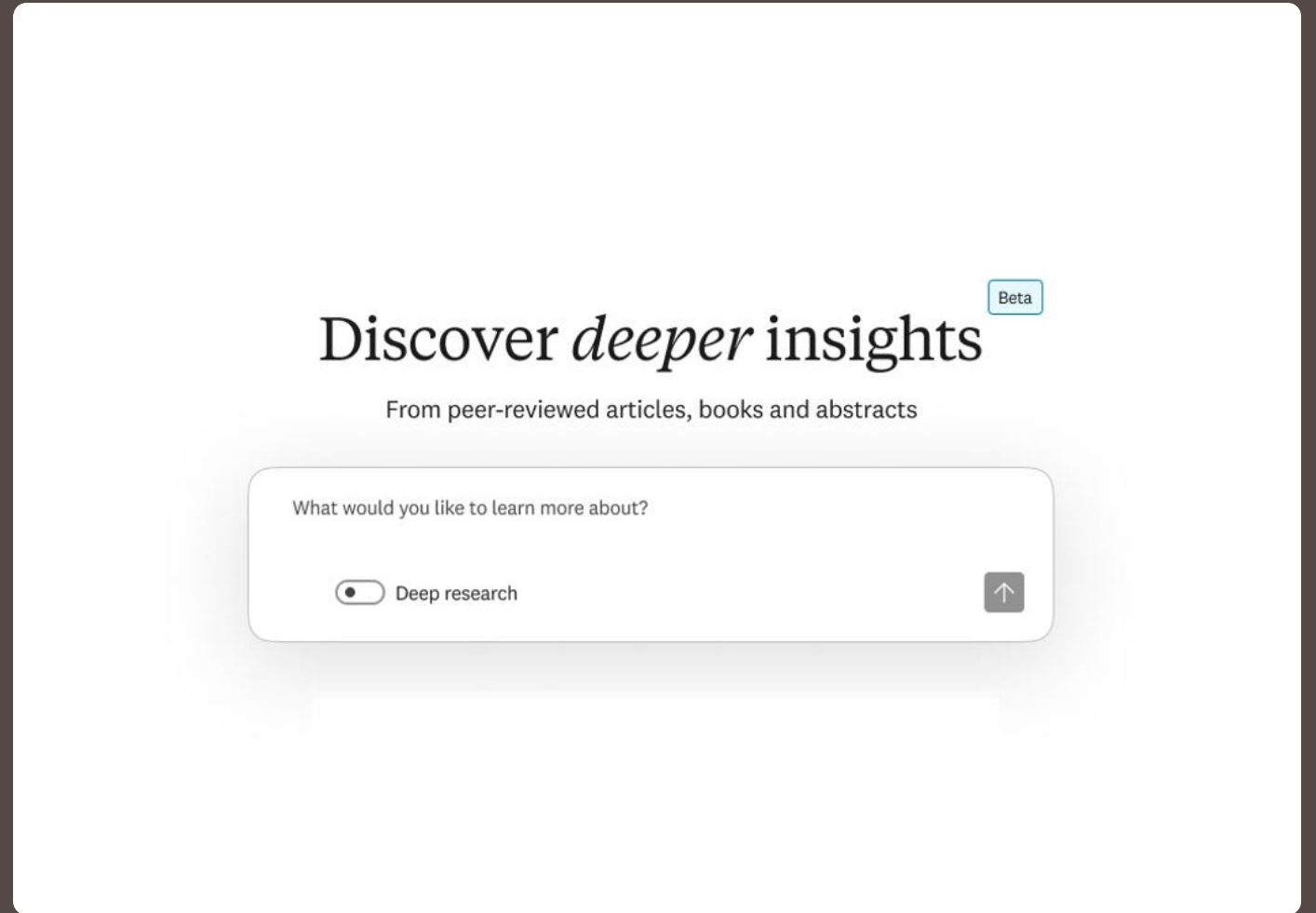
6



Transparent operation and
methodologies

Accessing LeapSpace

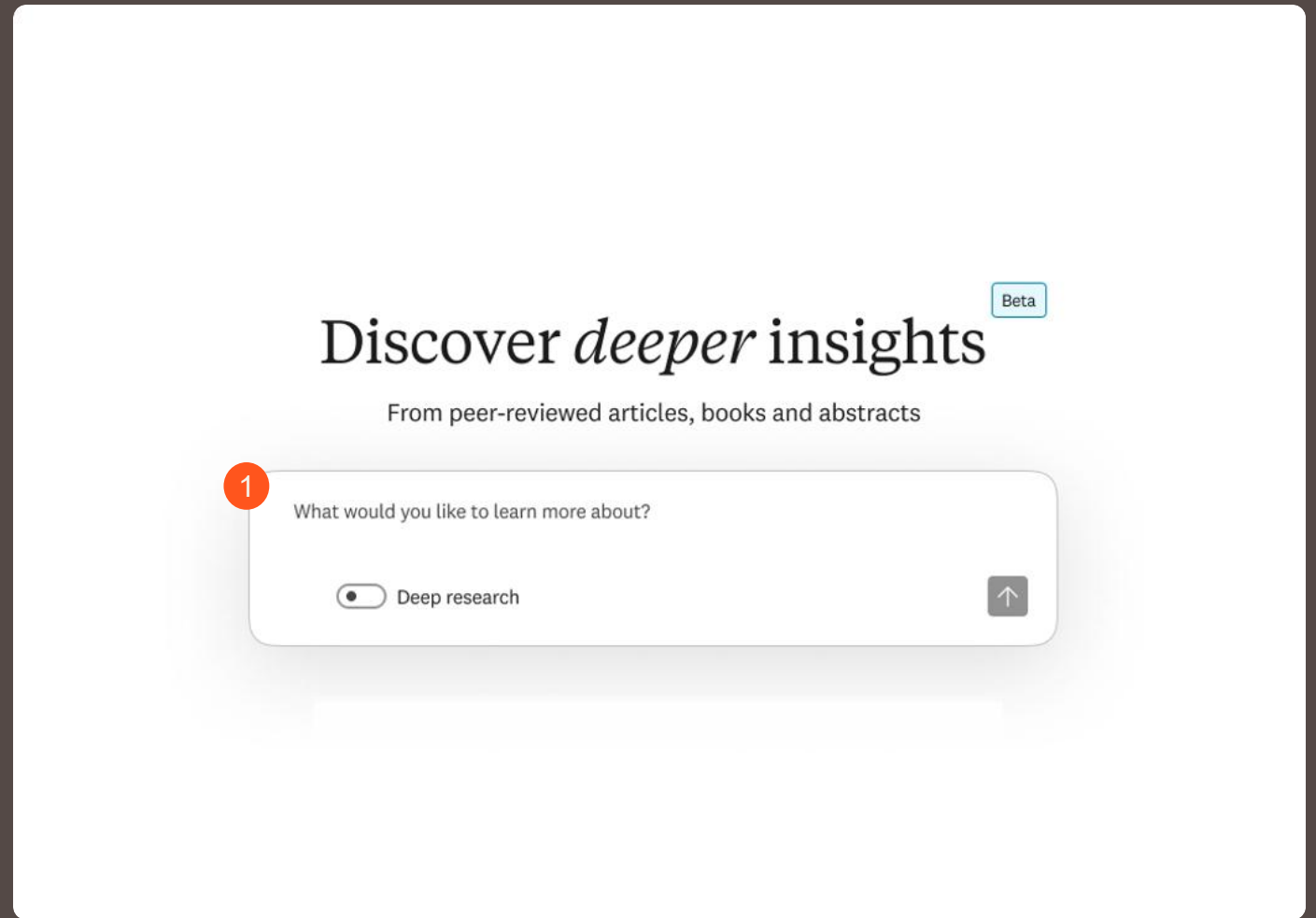
Access LeapSpace via the URL:
sciencedirect.com/leapspace



UI subject to change
Representative depiction; actual results may vary

Beginning your search

- 1. Formulate your query:**
Simply ask your question or describe your request in a natural, conversational manner.
The tool supports complex research, including interdisciplinary fields.



UI subject to change
Representative depiction; actual results may vary

Analyzing search results and reliability

- 1. Review the answer steps:** LeapSpace always displays the steps it takes to answer your question. This transparency builds trust and supports an essential skill in the age of AI—computational thinking or breaking a problem into parts and solving each step logically.
- 2. Examine the topic overview:** Review the structured topic overview to see the main points quickly. The Summary synthesizes content from relevant documents.
- 3. Utilize References to "Dig In":** Each LeapSpace response is grounded in peer-reviewed, curated content—drawing on the breadth of Elsevier’s publisher-neutral Scopus database and the depth of full-text research from Elsevier and other publishers. References let you explore the source material behind any statement, and clicking one opens a panel with bibliographic details and a “Link to statement” paragraph—known as a Trust Card—showing how closely the claim aligns with the cited source. This transparency builds trust and saves time when navigating dense research.
- 4. Ask a follow-up question:** You can use the follow-up feature to elaborate on specific points from the report, refocus your query to explore new perspectives, or zoom in on a particular area of interest.

How can seaweed cultivation contribute to global protein supply while capturing carbon?

Processing for 5 seconds

1

Creating a plan to respond to your query

Performing keyword search on Scopus
(seaweed OR macroalgae OR kelp) AND (cultivation OR farming OR aquaculture) AND (protein OR nutrition OR food supply) AND (carbon capture OR carbon sequestration OR climate mitigation)

Performing natural language search on Scopus
In what ways does seaweed cultivation help increase global protein supply and contribute to carbon capture?

Performing keyword search on ScienceDirect
(seaweed OR macroalgae OR kelp) AND (cultivation OR farming OR aquaculture) AND (protein OR nutritional value OR food source) AND (carbon capture OR sequestration OR climate mitigation) AND (method OR technique OR protocol OR results OR discussion)

Performing keyword search on ScienceDirect
How does seaweed cultivation contribute to both global protein supply and carbon capture, including technical approaches and results?

Done

Ask a follow-up question

Deep research

Researcher AI beta, is powered by Scopus and ScienceDirect. Expect variation in response quality. Share feedback

How can seaweed cultivation contribute to global protein supply while capturing carbon?

Processing for 5 seconds

2

Seaweed cultivation for protein and carbon capture

Seaweed cultivation offers a promising solution to two major global challenges: increasing the sustainable protein supply and capturing atmospheric carbon. Here's how seaweed farming contributes to both:

Contribution to Global Protein Supply

- Sustainable Protein Source:** Seaweed is rich in protein, containing all essential amino acids, and can be cultivated without the need for arable land, irrigation, or pesticides, making it a low-carbon alternative to traditional protein sources 1 2
- High Biomass Yield:** Seaweed aquaculture can be conducted at large scales, yielding significant biomass that can be used for human food, animal feed, and other protein-rich products 3 4
- Year-Round Production:** Offshore and sea-based cultivation allows for continuous, year-round biomass production, further supporting a stable protein supply 4 5
- Nutrient Recycling:** Using nutrient-rich wastewaters from aquaculture or food processing can enhance seaweed protein content and yield, supporting the so-called "protein-shift" towards more sustainable sources 6

Carbon Capture and Climate Mitigation

- Photosynthetic Carbon Sequestration:** Seaweed absorbs CO₂ through photosynthesis, acting as a natural carbon sink. Cultivated seaweed can sequester significant amounts of carbon, both in its biomass and by exporting organic carbon to deep ocean sediments 7 8 9 10 11 12 13
- Long-Term Storage:** Harvested seaweed can be processed into biofuels, biochar, or intentionally sunk to the deep ocean for long-term carbon storage, further enhancing its carbon capture potential 7 12 14
- Offsetting Emissions:** By replacing higher-carbon-footprint products (e.g., animal feed, fertilizers, fossil fuels) with seaweed-derived alternatives, overall carbon emissions can be

Ask a follow-up question

Deep research

Researcher AI beta, is powered by Scopus and ScienceDirect. Expect variation in response quality. Share feedback

Reference details

1 Scopus Article

Cultivation in wastewater increases growth and nitrogen content of seaweeds: A meta-analysis

Quinn, E. et al.; Lorne, A. et al.; Skye, D.B. et al.

Algal Research · 2022

15 citations

Open document details

3

Link to statement

The reference states that seaweeds are rich in essential amino acids (EAAs) and have protein quality comparable to plant sources like peas and soy. It adds that combining different seaweed species yields complementary EAA profiles, making them nutritionally comparable to animal proteins such as milk and whey.

Excerpt Abstract

Found in **abstract** section

Experimental evidence shows that seaweeds contain high concentrations of the essential amino acids (EAAs) necessary for human consumption... Seaweed proteins are similar in quality to common plant protein sources such as peas, soy, and tree nuts.

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](#)
- [ScienceDirect AI Libguide](#)
- [ScienceDirect Support Center](#)

Have questions?
Contact your dedicated Customer
Success Manager



Dr Yootapong Klinthongchai
y.klinthongchai@elsevier.com

Compare Journals



ScienceDirect

Compare journals

Find journals by title to compare

<https://www.sciencedirect.com/compare>

Compare journals

Find journals by title to compare

Journal



Carbon

Remove X



Microporous and Mesoporous Materials

Remove X



Materials Today Chemistry

Remove X

Publication options

Supports open access

Supports open access

Impact

20.1
CiteScore

10.9
Impact factor

9.6
CiteScore

5.2
Impact factor

7.6
CiteScore

7.3
Impact factor

Publishing speed

8 days
Time to first decision

51 days
Review time

68 days
Submission to acceptance

4 days
Acceptance to publication

5 days
Time to first decision

54 days
Review time

70 days
Submission to acceptance

6 days
Acceptance to publication

13 days
Time to first decision

66 days
Review time

81 days
Submission to acceptance

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](#)

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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

Microporous and Mesoporous Materials covers novel and significant aspects of **porous solids** classified as either **microporous** (pore size ...

[View full aims & scope](#)

Materials Today Chemistry 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

- Elsevier BIOBASE
- Chemical Abstracts
- Current Contents
- Engineering Index
- Monthly & Author Index
- Materials Science Citation Index
- Pascal Francis
- Scopus
- INSPEC

- Science Citation Index Expanded
- Inorganic Crystal Structure Database
- Chemical Abstracts
- Current Contents - Physical, Chemical & Earth Sciences
- Scopus
- INSPEC

- Scopus
- Emerging 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](#)



Research Tools

Elsevier Journal Finder

Elsevier Journal Finder helps is a free resource which allows researchers to find journals that could be best suited for publishing your scientific article.

Powered by the Elsevier Fingerprint Engine™ (<https://journalfinder.elsevier.com>), Journal Finder uses smart search technology and field-of-research specific vocabularies to match your article to Elsevier journals.

Find the right journal for your research

Looking for the best journal match for your paper?

Search the world's leading source of academic journals using your abstract or your keywords and other details.

> [More on how it works](#)

Match my abstract Search by keywords, aims & scope, journal title, etc...

Enter your abstract

Find journals >

Maximum 5,000 characters

[Check if you're eligible](#) for open access (OA) savings.

Journal Finder



CiteScore ⓘ
All journals

Time to 1st decision ⓘ
All journals

Publication type ⓘ

OA Journals that offer gold OA

S Journals with subscription

1 Refine your search

More filters ▾

Showing 48 journals matching your paper

Sort by: Best match ▾

2 Sort the results

Best match ↑

[Best match](#)

Journal name

CiteScore

Impact factor

Acceptance rate

Time to 1st decision

Time to publication

↑ [Best match first](#)

↓ [Best match last](#)

Environmental Impact Assessment Review

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

Text match score: [Progress bar]

Top matching keywords: Air Pollution

CiteScore: 7.6

Impact Factor: 6.122

Acceptance rate: 12%

Time to 1st decision: 3 weeks

Time to publication: 2 weeks

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



4 Click to see detail

Ecological Economics

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

Text match score: [Progress bar]

Top matching keywords: Air Pollution

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

Recent articles

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

Journal scope

---Part one: aims and scope---

Environmental Impact Assessment Review (EIA Review) is a refereed, interdisciplinary journal serving a global audience of practitioners, policy makers, regulators, academics and others with an interest in the field of impact assessment (IA) and management. Impact assessment is defined by the International Association for Impact Assessment (iaia.org) as the process of identifying the future consequences of a current or proposed action, for EIA Review, the field of IA can be related to as the assessment of impacts on or of the environment (including, for example, EIA and SEA), social (SIA), health (HIA), risk (RIA), human rights, equity, language, technology, products, etc. With current or proposed actions, the EIA Review audience assesses how best to evaluate the impacts of policies, projects, processes and products, and how best to make decisions and undertake management activities.

The focus of EIA Review is on innovative theory and practice that encompasses any of the above mentioned impacts and activities. In other words, EIA Review covers the following topics (the list is not exhaustive):

- Development of IA theory and concepts;
- IA legislation, procedure and practice;
- IA Governance;
- IA Methods, for example, forecasting, indicators, systems-based approaches, ecosystem services assessment, cost benefit analysis, algorithms, network-based approaches, among others;
- Life Cycle Assessment, Carbon Footprinting, Energy Analysis, Energy Analysis, and Integrated Product Policy;
- Environmental Management Systems.

Despite its name EIA Review is not restricted to review articles; However, it aims to publish only contributions

Researcher Academy

- Elsevier Researcher Academy is an online platform which takes you through the different phases of the research cycle – from the beginnings of research preparation, through the publishing process, all the way to demonstrating impact..
 - Prepares PhDs and Postdocs for their careers – either inside or outside of academia
 - Helps researchers attain funding for their research
 - Facilitates more researchers' papers being accepted in top journals
 - A completely free service, providing support throughout the entire research cycle
- <https://researcheracademy.elsevier.com/>

Learn

Researcher Academy provides free access to countless e-learning resources designed to support researchers on every step of their research journey. Browse our extensive module catalogue to uncover a world of knowledge, and earn certificates and rewards as you progress.

Get started >



RESEARCH PREPARATION

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

WRITING FOR RESEARCH

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

PUBLICATION PROCESS

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

NAVIGATING PEER REVIEW

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

COMMUNICATING YOUR RESEARCH

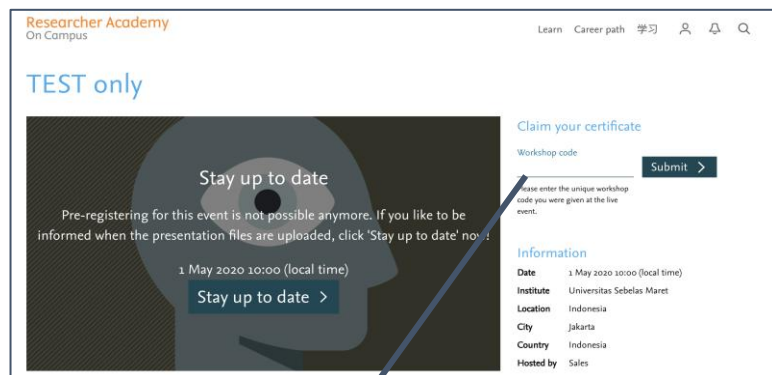
- > Social impact
- > Ensuring visibility
- > Inclusion and Diversity for Researchers

Q&A session



Post Event Survey and Claim your certificate!

1. Use this link/QR code to claim your certificate:

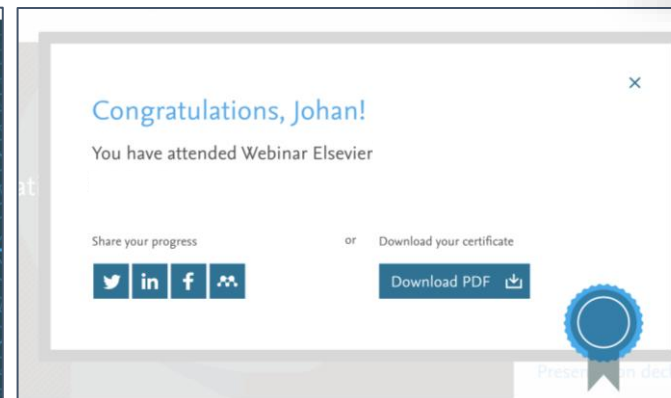
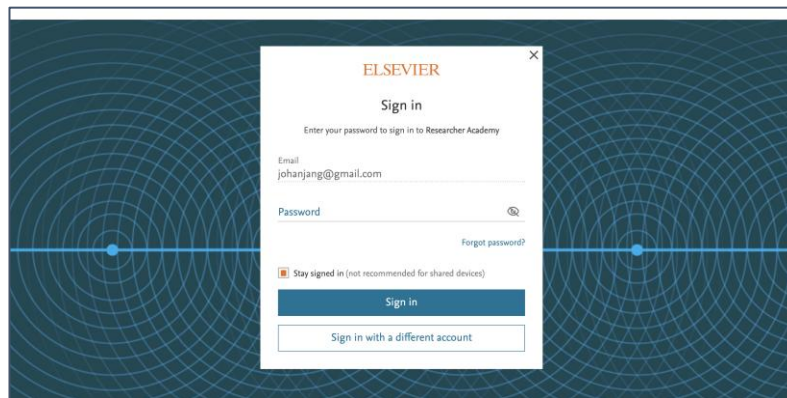


<https://bit.ly/KMITL-ScoSciLeap2026>




2. Once you fill in the survey, use the following code to claim your certificate

HAJTVL



Note:
If you have not registered with Elsevier ID, you will be prompted to do so. Please do register yourself using institutional/personal email address.

 Your rating of our performance (the first question) is important to us

Thank you for your time.

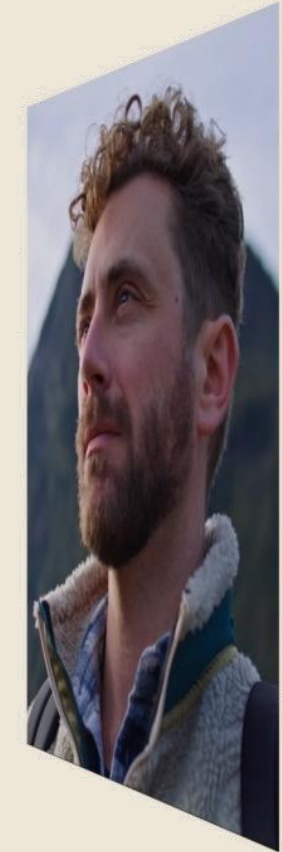
Dr Yottapong Klinthongchai

Customer Success Manager

Elsevier South East Asia

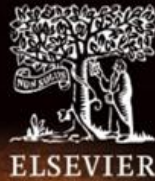
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Advancing human
progress *together*



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