



Scopus



Stang Library Training
Information skills for you

การใช้งานฐานข้อมูลบรรณานุกรม Scopus รุ่นที่ 4

งานสารสนเทศและห้องสมุดสตางค์ มงคลสุข
คณะวิทยาศาสตร์ มหาวิทยาลัยมหิดล
04 ธันวาคม 2567

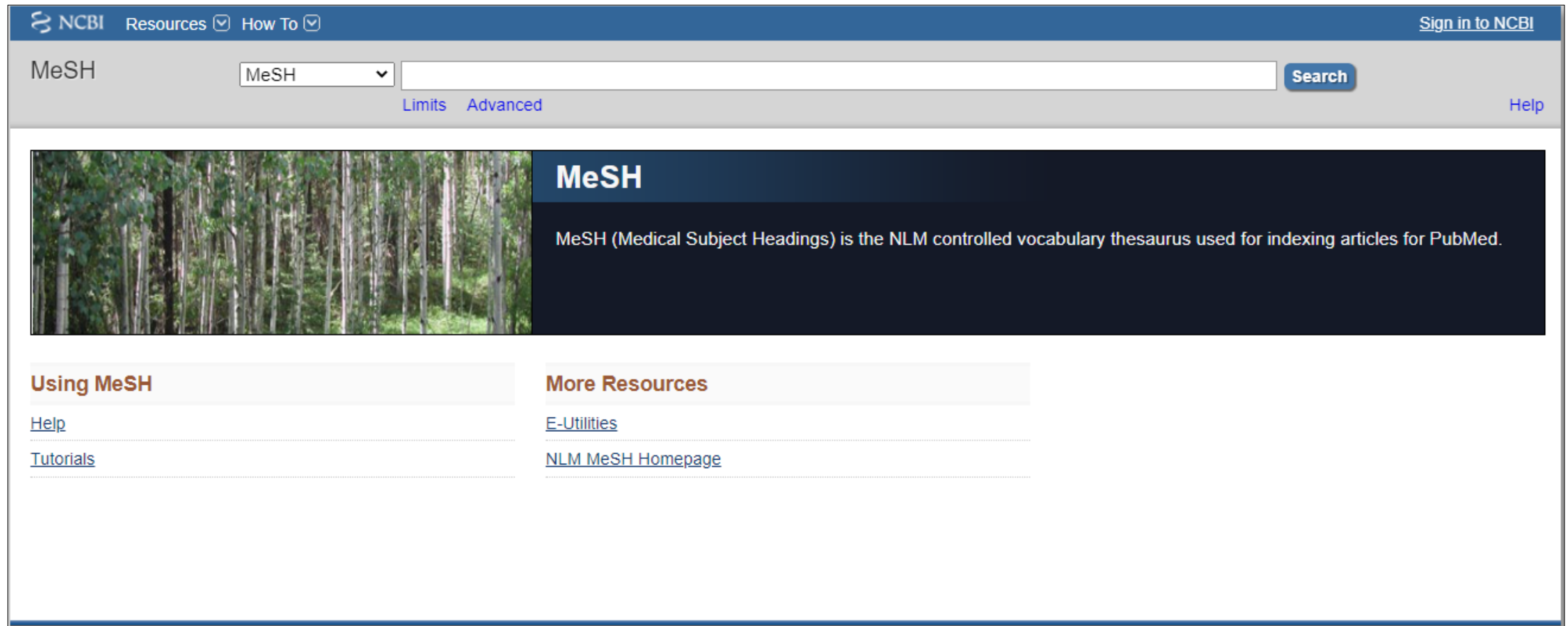


เนื้อหาการบรรยาย

1. แนะนำกลุ่มคำ Thesaurus/Synonyms
2. Boolean Operators
3. แนะนำช่องทางการเข้าถึงวารสารและฐานข้อมูลอิเล็กทรอนิกส์
4. แนะนำการใช้งานฐานข้อมูล Scopus
 - Basic Search
 - Advanced search
 - Combine queries
 - Save search
 - Set search alert

1. แนะนำกลุ่มคำ Thesaurus/Synonyms

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed. <https://www.ncbi.nlm.nih.gov/mesh/>



The screenshot shows the MeSH website interface. At the top, there is a navigation bar with "NCBI Resources" and "How To" menus, and a "Sign in to NCBI" link. Below this is a search bar with "MeSH" selected in a dropdown menu, a search input field, and a "Search" button. There are also links for "Limits" and "Advanced" search options, and a "Help" link. The main content area features a large image of a forest on the left and a dark blue header with the text "MeSH" and "MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed." Below this, there are two columns of links: "Using MeSH" with links for "Help" and "Tutorials", and "More Resources" with links for "E-Utilities" and "NLM MeSH Homepage".

NCBI Resources ▾ How To ▾

MeSH

Create alert Limits Advanced

Summary ▾ 20 per page ▾ Send to: ▾

Search results

Items: 1 to 20 of 396 << First < Prev Page of 20 Next > Last >>

- [Neoplasms](#)
 1. New abnormal growth of tissue. Malignant **neoplasms** show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign **neoplasms**.
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965
- [Hereditary Breast and Ovarian **Cancer** Syndrome](#)
 2. Autosomal dominant HEREDITARY **CANCER** SYNDROME in which a mutation most often in either BRCA1 or BRCA2 is associated with a significantly increased risk for breast and ovarian cancers.
Year introduced: 2012
- [Early Detection of **Cancer**](#)
 3. Methods to identify and characterize **cancer** in the early stages of disease and predict tumor behavior.
Year introduced: 2009

NCBI Resources How To

MeSH MeSH Limits Advanced

Full Send to:

Neoplasms

New abnormal growth of tissue. Malignant neoplasms show a greater degree of anaplasia and have the properties of invasion and metastasis, compared to benign neoplasms.
Year introduced: /diagnosis was NEOPLASM DIAGNOSIS 1964-1965

PubMed search builder options
[Subheadings:](#)

<input type="checkbox"/> abnormalities	<input type="checkbox"/> education	<input type="checkbox"/> pathology
<input type="checkbox"/> administration and dosage	<input type="checkbox"/> embryology	<input type="checkbox"/> pharmacology
<input type="checkbox"/> analysis	<input type="checkbox"/> enzymology	<input type="checkbox"/> physiology
<input type="checkbox"/> anatomy and histology	<input type="checkbox"/> epidemiology	<input type="checkbox"/> physiopathology
<input type="checkbox"/> antagonists and inhibitors	<input type="checkbox"/> ethnology	<input type="checkbox"/> prevention and control
<input type="checkbox"/> biosynthesis	<input type="checkbox"/> etiology	<input type="checkbox"/> psychology
<input type="checkbox"/> blood	<input type="checkbox"/> genetics	<input type="checkbox"/> radiation effects
<input type="checkbox"/> blood supply	<input type="checkbox"/> growth and development	<input type="checkbox"/> radiotherapy
<input type="checkbox"/> cerebrospinal fluid	<input type="checkbox"/> history	<input type="checkbox"/> rehabilitation
<input type="checkbox"/> chemical synthesis	<input type="checkbox"/> immunology	<input type="checkbox"/> secondary
<input type="checkbox"/> chemically induced	<input type="checkbox"/> injuries	<input type="checkbox"/> statistics and numerical data




Tree Number(s): C04
MeSH Unique ID: D009369
Entry Terms:

- Neoplasia
- Neoplasias
- Neoplasm
- Tumors
- Tumor
- Cancer
- Cancers
- Malignancy
- Malignancies
- Malignant Neoplasms
- Malignant Neoplasm
- Neoplasm, Malignant
- Neoplasms, Malignant
- Benign Neoplasms
- Neoplasms, Benign
- Benign Neoplasm
- Neoplasm, Benign

1. แนะนำกลุ่มคำ Thesaurus/Synonyms (2)

<https://www-embase-com.ejournal.mahidol.ac.th/>



Embase

Search Emtree Journals Results My tools

Quick search

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator

Find articles by simple keyword search or build more complex queries [Search tips](#)

Broad search e.g. 'heart attack' AND stress
cancer

<input type="radio"/> cancer use: malignant neoplasm	4,844,258
<input type="radio"/> cancers use: malignant neoplasm	4,844,258
<input type="radio"/> cancer chemotherapeutic agent use: antineoplastic agent	3,318,870
<input type="radio"/> cancer inhibitor use: antineoplastic agent	3,318,870
<input type="radio"/> cancer therapy	1,157,344
<input type="radio"/> cancer cure use: cancer therapy	1,157,344
<input type="radio"/> cancer healing use: cancer therapy	1,157,344
<input type="radio"/> cancer remedy use: cancer therapy	1,157,344
<input type="radio"/> cancer treatment use: cancer therapy	1,157,344
<input type="radio"/> cancer in the digestive tract use: digestive system	1 103 030

About Embase LSS
We use cookies to help provide our services.

Broad search e.g. 'heart attack' AND stress
stem cell

<input type="radio"/> stem cell	511,843
<input type="radio"/> stem cells use: stem cell	511,843
<input type="radio"/> stem cell leukaemia use: leukemia	461,620
<input type="radio"/> stem cell leukemia use: leukemia	461,620
<input type="radio"/> stem cell transplantation	204,790
<input type="radio"/> stem cell based therapy use: stem cell transplantation	204,790
<input type="radio"/> stem cell therapy use: stem cell transplantation	204,790
<input type="radio"/> stem cell, mesenchymal use: mesenchymal stem cell	90,003
<input type="radio"/> stem cell, tumor use: cancer stem cell	46,006
<input type="radio"/> stem cell, tumour use: cancer stem cell	46,006

Broad search e.g. 'heart attack' AND stress
rubber tree

<input type="radio"/> rubber tree use: Hevea brasiliensis	737
---	-----

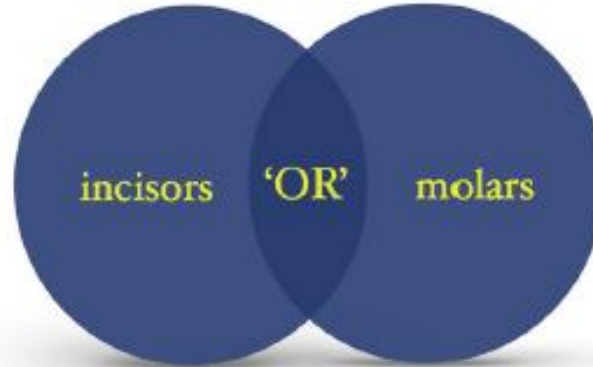
Show 1,527 results

Display full query



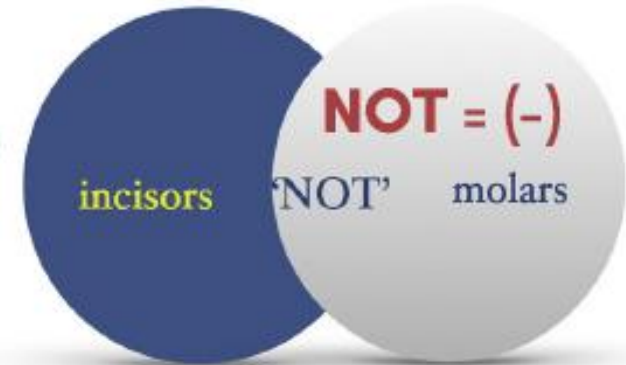
2. แนะนำ Boolean Operators

Boolean Operators เป็นการสร้างความเชื่อมโยงของ keywords ตั้งแต่ 2 คำขึ้นไป

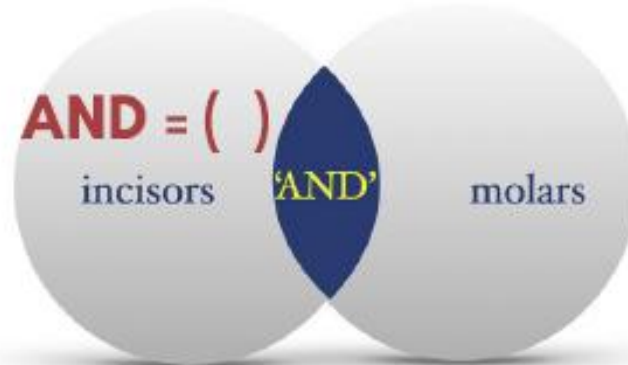


incisors OR molars:
allows pages with at least one of the terms

Boolean Operators
'OR, NOT, AND'



incisors NOT molars:
excludes pages that mention 'incisors' if they also mention 'molars'



incisors AND molars:
allows pages in the overlap where both terms occur

****Quotation Marks "..."**



Scopus

3. แนะนำเข้าแหล่งสารสนเทศผ่าน <https://login.ejournal.mahidol.ac.th/login>

เข้าผ่านระบบ Ezproxy

เกิดจากแนวคิดของมหาวิทยาลัยในการสร้างช่องทางเข้าถึงฐานข้อมูลและวารสารอิเล็กทรอนิกส์ โดยผู้ใช้งานสามารถเข้าใช้งานได้ทุกที่ ทุกเวลาด้วย Mahidol Internet Account



Mahidol University
Library and Knowledge Center
Mahidol eJournal Access

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reCAPTCHA
Privacy - Terms

firstname.sur (for staff) or u61xxx or g61xxx

type your password

028002680-9 ext.4262,4265
liwww@mahidol.ac.th

[Manual](#)



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Access to Mahidol University E-databases requires login with MU account via <https://ejournal.mahidol.ac.th>



มหาวิทยาลัยมหิดล
หอสมุดและคลังความรู้

English



e-Resource

Research Support

บริการห้องสมุด

คลังความรู้อื่นๆ

เกี่ยวกับหอสมุดฯ

e-Databases

Full Text Finder
(Journals A to Z)

List of subscribed
by Faculty

e-Resource
Access

Single Search

Mahidol Library Catalogs (OPAC)

Theses

บริการ Single Search สืบค้นทรัพยากรของห้องสมุดทุกแห่งในมหาวิทยาลัยมหิดล สืบค้น
ฐานข้อมูลต่างๆ ที่บอกรับ และบริการยืมระหว่างห้องสมุด (ILL)
* จำเป็นต้องเข้าสู่ระบบ EZproxy ก่อนใช้งาน *

Search in EBSCO Discovery Service...

Search



Scopus



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Information skills for you

Access to Mahidol University E-databases requires login with MU account via <https://ejournal.mahidol.ac.th>



มหาวิทยาลัยมหิดล
หอสมุดและคลังความรู้

English



e-Resource

Research Support

บริการห้องสมุด

คลังความรู้อื่นๆ

เกี่ยวกับหอสมุดฯ

e-Databases

EBSCO Discovery Service (EDS)

Search by URL Electronic Databases

Single Search, a searching service of all resources from Mahidol University's
subscription



Start your search here...

Search



Restrictions for
E-Journals & E-Databases

[Read more.](#)

e-Databases

- e-Databases
- e-Books
- e-Theses
- Trial Databases
- E-Newspaper
- e-Resource Access
- Journals A to Z
- List of subscribed by Faculty
- e-Databases Training
 - OnLine Training /

A B C D E F G H I J K L M N O P R S T U W



3. แนะนำเข้าแหล่งสารสนเทศผ่านหน้าเว็บห้องสมุดต่างๆ <https://stang.sc.mahidol.ac.th/>

Home เกี่ยวกับเรา **E-Resources** ทรัพยากรห้องสมุด บริการห้องสมุด สารสนเทศงานวิจัย บริการไอทีวิชาการ พิพิธภัณฑ์ ติดต่อเรา

Access

- Login แอู remote access
- E-DATABASES**
- E-JOURNALS
- E-BOOKS
- คู่มือและวิดีโอแนะนำวิธีการสืบค้น
- ฐานข้อมูลทดลองใช้
- ฐานข้อมูลในประเทศไทย
- วารสารไทยออนไลน์
- ฐานข้อมูลวิทยานิพนธ์
- ฐานข้อมูลเอกสารสิทธิ์บัตร
- หนังสือพิมพ์ ทีวี และสื่อ
- พจนานุกรม
- รายชื่อห้องสมุดในประเทศไทย

E-databases requires login with MU account via <https://ejournal.mahidol.ac.th>

ค มงคลสุข
บปลายภาค
20.30 น.
3 ร.ค. 2567



Co-learning Space



Stang Training



eJournal Access



Electronic Information Service



Self Renew Book



Read & Publish



3. แนะนำเข้าแหล่งสารสนเทศผ่านหน้าเว็บห้องสมุดต่างๆ <https://stang.sc.mahidol.ac.th/>



iPad Pencil

บริการพิเศษสำหรับนักศึกษาคณะ
วิทยาศาสตร์ (SC) และนักศึกษาโครงการ
ผลิตแพทย์เพื่อชาวชนบท (PI) เท่านั้น



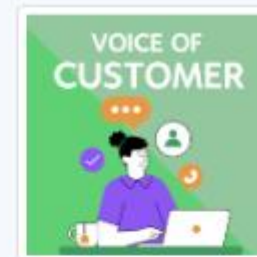
ศูนย์รับบริจาคหนังสือ

รับบริจาคหนังสือสำหรับเด็กและเยาวชน ที่
มีสภาพดี สะอาด พร้อมใช้งาน เพื่อส่งต่อ
ให้เยาวชนที่ขาดแคลนทั่วประเทศ



MOOCs Online Courses

บทเรียนออนไลน์ด้านวิทยาศาสตร์ที่
สามารถเข้าเรียนได้ทุกที่ ทุกเวลา



Voice of Customer

ข้อร้องเรียน คำติชม และข้อเสนอแนะจาก
ผู้ใช้บริการ





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Scopus

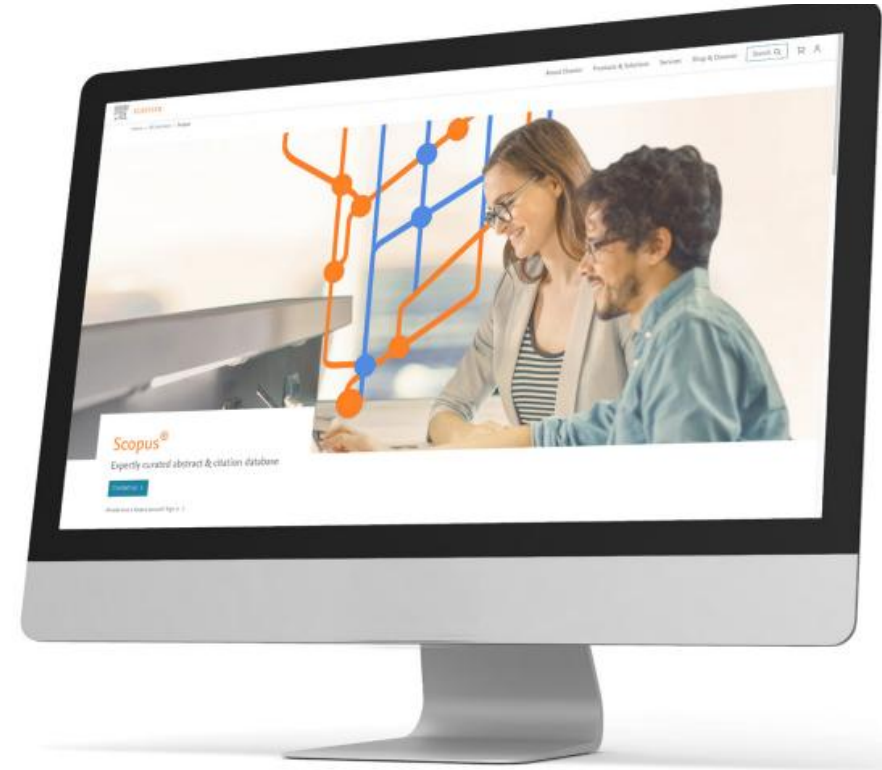


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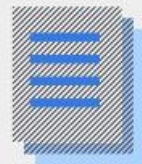
Your brilliance, connected

Scopus is a source-neutral abstract and citation database curated by independent subject matter experts who are recognized leaders in their fields.

Scopus puts powerful discovery and analytics tools in the hands of researchers, librarians, research managers and funders to promote ideas, people and institutions.



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cited references



97.3+ million
records



19+ million
author profiles



94+ thousand
organization profiles



7+ thousand
publishers

Scopus includes:



97.3+ million records

- 90.8+ million records post-1969 with references
- 6.5+ million records pre-1970, with the oldest record dating back to 1788
- 24.6+ million open access items, including gold, hybrid gold, green & bronze
- 12.5+ million conference papers
- 22.2+ million items with funding information
- 51.2+ million patent links



28.3+ thousand active serial titles

- 25.3+ thousand active peer-reviewed journals
— Including 7.6+ thousand open access journals
- **1.2+ thousand book series**
- 171 trade publications



ELSEVIER



368+ thousand books

- Includes monographs, edited volumes, major reference works & textbooks
- Focus on arts & humanities & social sciences, as well as science, technology & medicine

2.33+ million preprints from 7 preprint servers

1. arXiv
2. ChemRxiv
3. bioRxiv
4. medRxiv
5. SSRN
6. TechRxiv
7. ResearchSquare+

29.7+ thousand titles have a 2023 CiteScore

- Scopus includes article, author and journal-level metrics, including CiteScore metrics

Learn more about CiteScore™ metrics:

elsevier.com/products/scopus/metrics/citescore



Multidiscipline database subscribed by Mahidol University

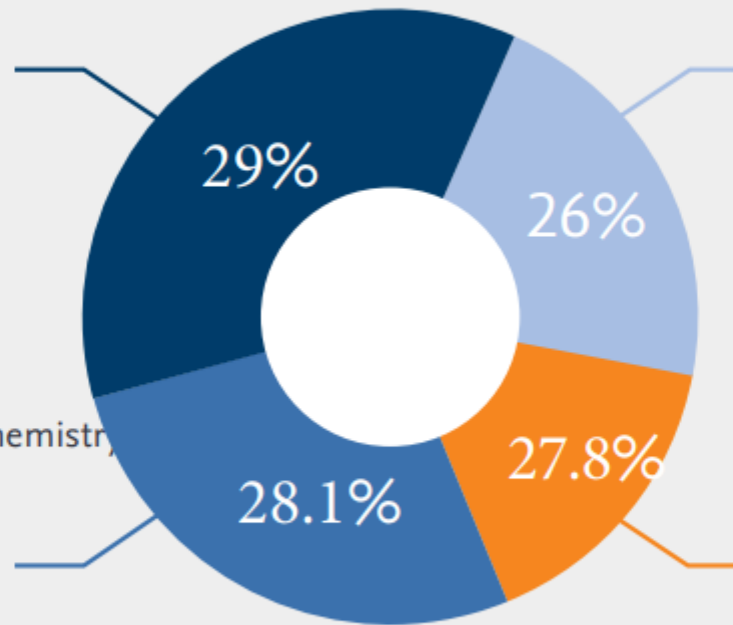
Publications per major subject area*:

Social Sciences

15.9+ thousand titles in arts & humanities; business, management & accounting; decision sciences; economics, econometrics & finance; psychology; social sciences

Physical Sciences

15.4+ thousand titles in chemical engineering; chemistry; computer science; earth & planetary sciences; energy; engineering; environmental science; materials science; mathematics; physics & astronomy



Health Sciences

7.5+ thousand titles in medicine; nursing; dentistry; health professions; veterinary

Life Sciences

15.2+ thousand titles in agriculture & biological sciences; biochemistry, genetics & molecular biology; immunology & microbiology; neuroscience; pharmacology, toxicology & pharmaceuticals

*Counts include only active titles. Titles may fall into more than one major subject area.

Scopus is updated daily, so numbers are subject to change. Figures are rounded to the nearest decimal point. Source: Scopus title list, June 2024

<https://ejournal.mahidol.ac.th/login?url=https://www.scopus.com>



Scopus 20 | Empowering discovery since 2004

 Search

Lists

Sources

SciVal ↗



Create account

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Celebrating 20 years of innovative discovery

Our Scopus journey started in 2004 and during the past two decades Scopus grew into the leading platform for innovative discovery, driving research for the benefit of all.

[About our journey >](#)

[Documents](#)

[Authors](#)

[Researcher Discovery](#)

[Organizations](#)

[Search tips ?](#)


Search within

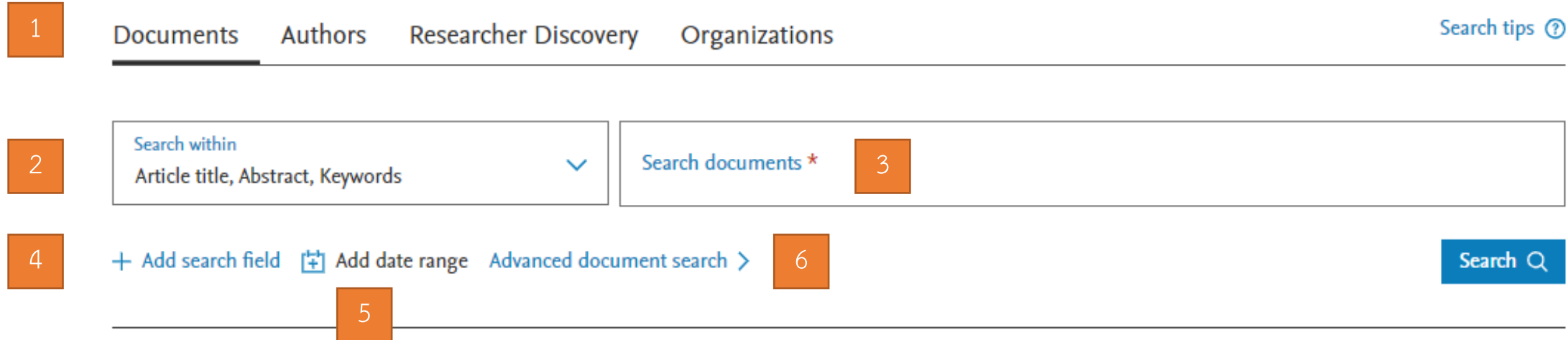
Article title, Abstract, Keywords



Search documents *

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

Search 



The screenshot shows the Scopus search interface. At the top, there are navigation tabs: Documents (highlighted with callout 1), Authors, Researcher Discovery, and Organizations. To the right of these tabs is a 'Search tips' link with a question mark icon. Below the tabs is a search bar. On the left of the search bar is a dropdown menu labeled 'Search within' with 'Article title, Abstract, Keywords' selected (callout 2). To the right of the dropdown is a text input field containing 'Search documents *' (callout 3). Below the search bar are several options: '+ Add search field' (callout 4), '+ Add date range' (callout 5), and 'Advanced document search >' (callout 6). On the far right of the search bar is a blue 'Search' button with a magnifying glass icon.

1. The **Document search** tab and other tabs are **Author, Researcher Discovery and Organizations**.
2. **Search within:** Select which fields you wish to search from using drop down menu.
3. **Search documents:** Enter your search terms in this field. You can combine multiple search terms within one field.
4. **+ Add Search field:** Select Boolean operators (AND, OR, NOT) to combine search terms.
5. **Add date range:** Use the Limits to focus on publication periods, document types or access type.
6. **Advanced document search:** An advanced search allows you to enter complex search queries using field codes, Boolean and proximity operators to narrow the scope of your search.



Documents Authors Researcher Discovery Organizations Search tips

Search within
Article title, Abstract, Keywords

Search documents *
Bacterial Protein

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

Advanced query

Save search Set search alert

Search within
Article title, Abstract, Keywords

Search documents *
bacterial AND protein

+ Add search field Reset

Beta

Documents Preprints Patents Secondary documents Research data

573,567 documents found

Specify between two words, Scopus automatically joins them with **AND**.



Advanced query

Search within: Article title, Abstract, Keywords

Search documents *: bacterial AND protein

Save search | Set search alert | + Add search field

Reset | Search

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

573,567 documents found [Analyze results](#)

+ Quotation marks “...”

Advanced query

Search within: Article title, Abstract, Keywords

Search documents *: "Bacterial Protein"

Save search | Set search alert | + Add search field

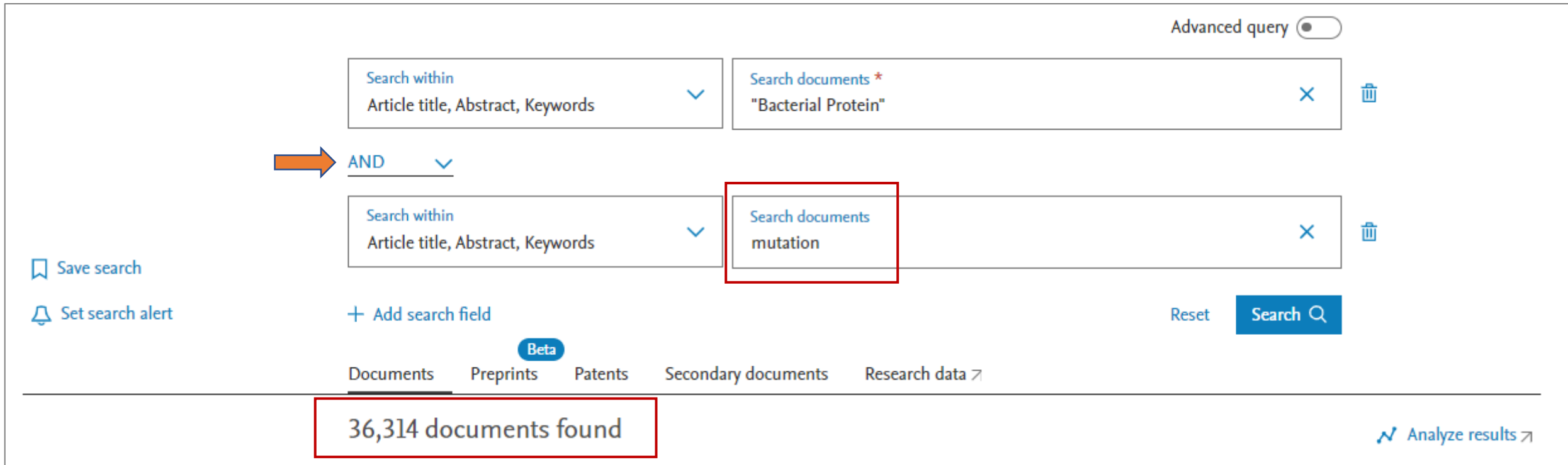
Reset | Search

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

206,903 documents found [Analyze results](#)



Click + Add search field



The screenshot shows the Scopus search interface. At the top right, there is an "Advanced query" toggle switch. Below it, there are two search fields. The first field is labeled "Search within" with a dropdown menu set to "Article title, Abstract, Keywords" and contains the text "Search documents * 'Bacterial Protein'". The second field is also labeled "Search within" with the same dropdown and contains "Search documents mutation". An orange arrow points to the "AND" operator between the two fields. Below the search fields, there is a "+ Add search field" button. At the bottom left, there are links for "Save search" and "Set search alert". At the bottom right, there are "Reset" and "Search" buttons. Below the search fields, there are tabs for "Documents", "Preprints", "Patents", "Secondary documents", and "Research data". The "Documents" tab is selected, and a red box highlights the text "36,314 documents found". At the bottom right, there is a link for "Analyze results".

+ **Add Search field:** Select Boolean operators (**AND**, **OR**, **NOT**) to combine search terms.



Click + Add search field

Advanced query

Search within Article title, Abstract, Keywords	Search documents * "Bacterial Protein"	×	🗑️
AND			
Search within Article title, Abstract, Keywords	Search documents mutation	×	🗑️
AND			
Search within Article title, Abstract, Keywords	Search documents "Controlled Study"	×	🗑️

Save search
Set search alert

+ Add search field

Reset Search

Documents Preprints Patents Secondary documents Research data

15,531 documents found

Analyze results

+ Add Search field: Select Boolean operators (AND, OR, NOT) to combine search terms.



Advanced query

Search within Article title, Abstract, Keywords	Search documents * "Bacterial Protein"	X	🗑️
AND			
Search within Article title, Abstract, Keywords	Search documents mutation	X	🗑️
AND NOT			
Search within Article title, Abstract, Keywords	Search documents "Controlled Study"	X	🗑️
Search within Article title, Abstract, Keywords	Search documents human	X	🗑️

Save search
Set search alert

+ Add search field

Reset Search

Documents Preprints Patents Secondary documents Research data

10,408 documents found

Analyze results

Click + Add search field

Search documents
human

10,408 documents found

+ Add Search field: Select Boolean operators (AND, OR, NOT) to combine search terms.



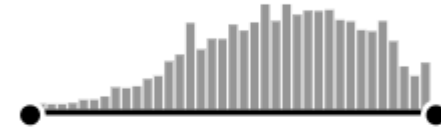
Refine search

Search within results

Filters

Year

Range Individual



from - to [>](#)

Subject area

- Biochemistry, Genetics and Molecular Biology 7,323
- Immunology and Microbiology 5,269
- Medicine 1,679
- Multidisciplinary 893
- Agricultural and Biological Sciences 538

[Show all](#)

Document type

- Article 10,260
- Review 52
- Letter 34
- Conference paper 33
- Note 10

[Show all](#)

Language

Keyword

- Controlled Study 10,408
- Article 10,250
- Nonhuman 10,125
- Bacterial Proteins 8,727
- Priority Journal 7,147

[Show all](#)

Country/territory

Source type

Source title

- Journal Of Bacteriology 1,347
- Molecular Microbiology 867
- Journal Of Biological Chemistry 724
- Plos One 570
- Microbiology 364

[Show all](#)

Author name

Publication stage

Affiliation

Funding sponsor

Open access

- All open access 7,715
- Green 4,064
- Bronze 2,715
- Gold 1,923
- Hybrid gold 882

Cancel

Exclude

Limit to

Use the **Search within results** field to add additional terms to your search. They will be applied to this result set.

Use the Refine options to **filter** the results by Year, Subject area, Document type, Source title, Open access, year, etc.



1,355 documents found

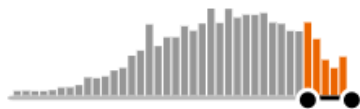
Refine search

Search within results

Filters Clear all

Year Clear

Range Individual



2020 - 2025

Subject area

- Biochemistry, Genetics and Molecular Biology 920
- Immunology and Microbiology 631
- Medicine 306
- Chemistry 155
- Chemical Engineering 123

Show all

Document type Clear (2)

- Limited to Article 1,352
- Limited to Review 3

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

	Document title	Authors	Source	Year	Citations
<input type="checkbox"/> 1	Article • Open access Disruption of the signal recognition particle pathway leading to impaired growth, sugar metabolism and acid resistance of <i>Lactococcus lactis</i>	Wang, M., Yue, Y., Zhu, X., ... Kong, J., Guo, T.	International Journal of Food Microbiology, 426, 110929	2025	0
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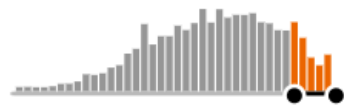
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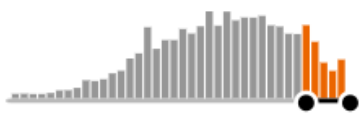
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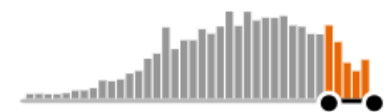
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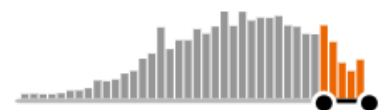
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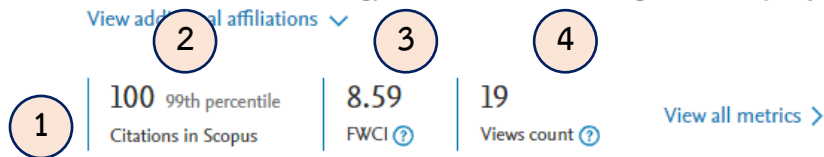


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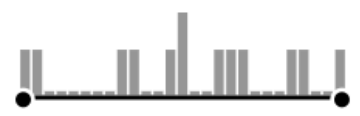
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Proximity operators - W/n

- **W/n**: Indicates distance between words, but not the order - e.g., "Bacterial Proteins" W/10 mutation

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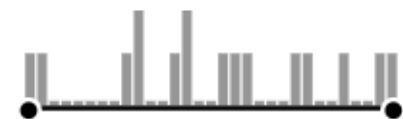
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Evolution of codon and amino acid usage in bacterial protein toxins

Sharma, Anuj^a; Gupta, Shelly^b;Paul, Karan^a

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10.1016/j.bbrc.2023.03.001

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Abstract

Toxin proteins are secreted by most pathogens as an integral part of pathogenic mechanism(s). The toxins act by either damaging the host cell membrane (for example, pore-forming toxins and RTX toxins) or by modulation of important cellular pathways (for example, inhibition of protein translation by ribosome-inactivating proteins). The mechanism of action of these toxins provides the pathogen with strategies for adaptation in the unfavorable host environment. Though, secreted by different pathogenic species, the protein toxins seem to share common features that allow the protein to bind to specific molecules and enter the host cell. Earlier studies have suggested role of several events like horizontal gene transfer and insertion-deletion **mutation**s in evolution of protein toxins. The present study involving 125 **bacterial protein** toxins secreted by 49 pathogenic bacteria focuses on the role and constraints of the bacterial genome on evolution of codon and amino acid usage



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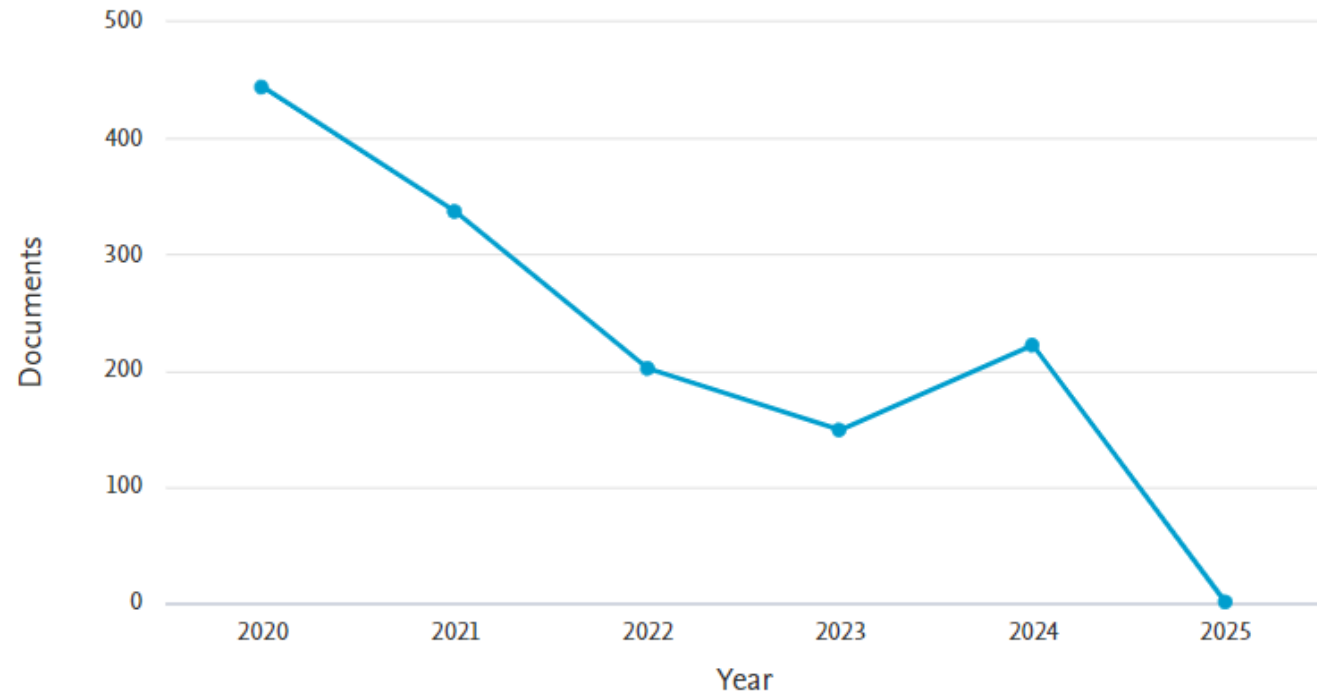
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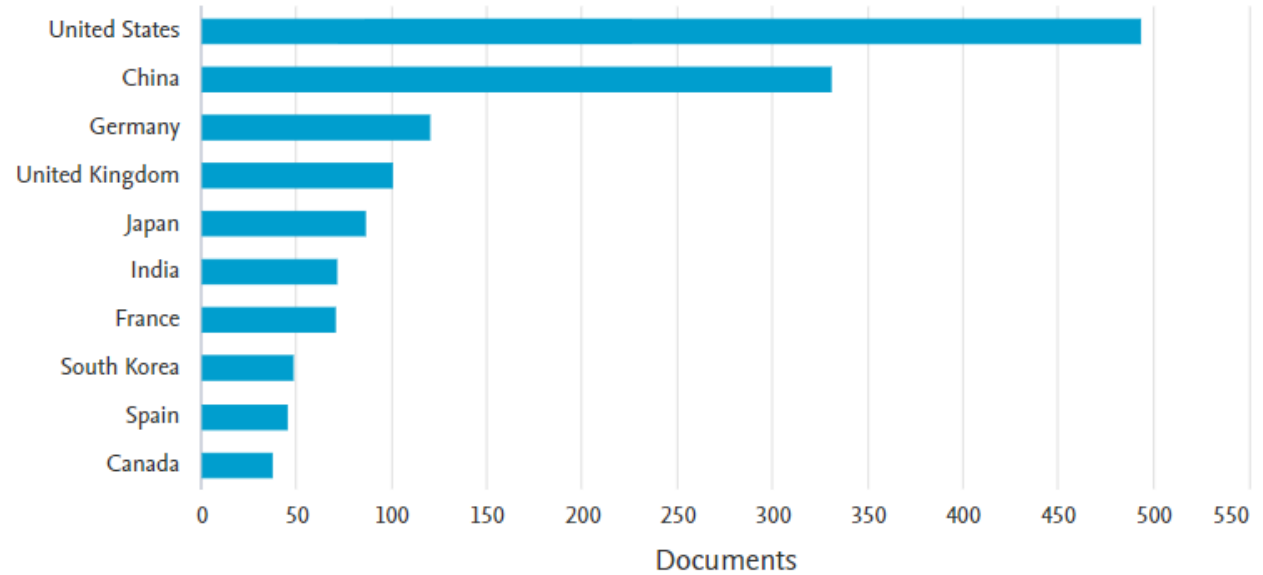
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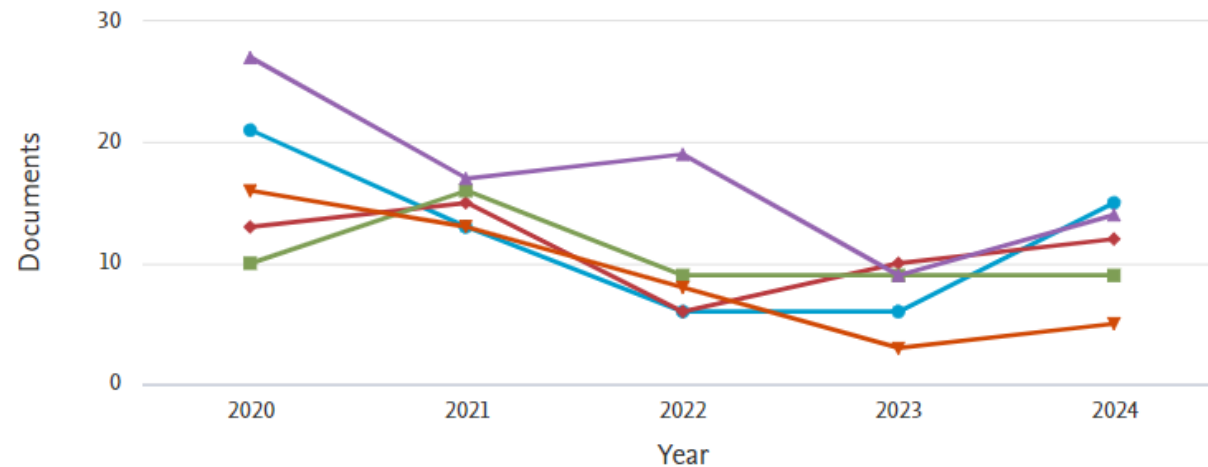
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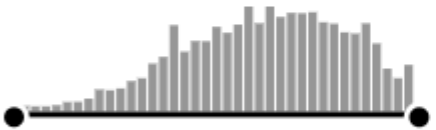
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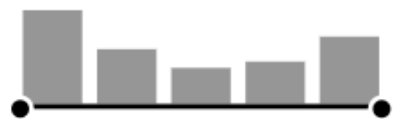
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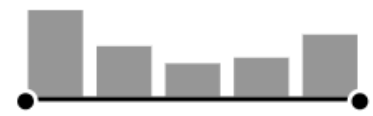
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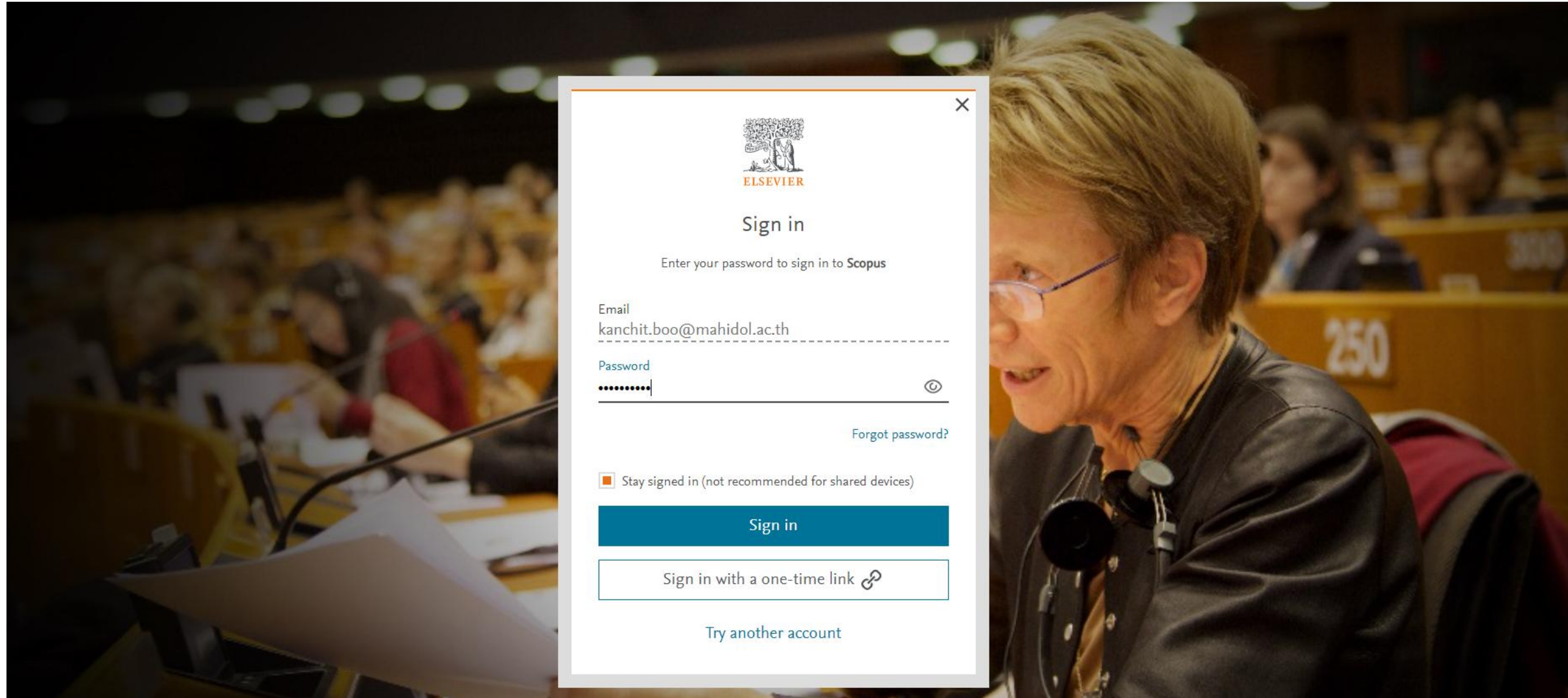
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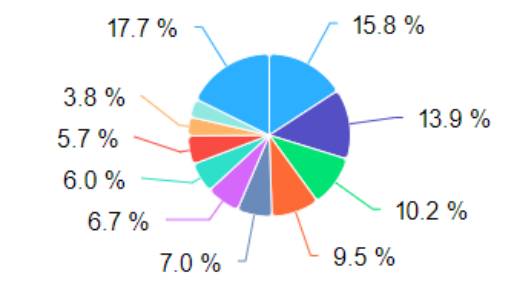
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