# Empower your Research with Scopus

Data | Curated. Connected. Complete

Harisom Anida Musa
Perpustakaan Sultanah Nur Zahirah
Universiti Malaysia Terengganu

Agenda

1. Introduction to Scopus

2. Search Smarter -- Some Scopus Search tips

3. Document Search

4. Document Search Analysis

5. Comparison of Sources

6. Author comparison
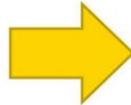
Learning Outcomes:

After attending this session, you should be able to:

1. Search smarter to reveal more insights

2. Find new topics of interest and track research trends

3. Use Scopus for your literature review

4. Visualize the research landscape, find prolific authors and relevant journals on your topic

5. Find out all about your own and other researchers story with Author Profiles

ELSEVIER

Empower your Research with Scopus

Table of Contents

- **Introducing Scopus**

- **What Content is in Scopus**

- **Searching Scopus**

- **Source Browser and Journal Analyser**

- **Research Excellence**

- **Scopus Help & Resources**

Introducing Scopus

Using Published Literature

On average, researchers spend just over four hours searching for research articles a week and more than 5 hours reading them. They read 5 – 6 articles per week and only half are considered useful

Legend: Less than an hour ■ 1 to 2 hours ■ 3 to 5 hours ■ 6 to 10 hours ■ 11 to 15 hours ■ More than 15 hours

On average how much time do you spend searching for research articles per week?
16% | 35% | 28% | 12% | 3% 6%

On average how much time do you spend reading research articles per week?
7% | 28% | 34% | 17% | 8% | 7%

0% 20% 40% 60% 80% 100%
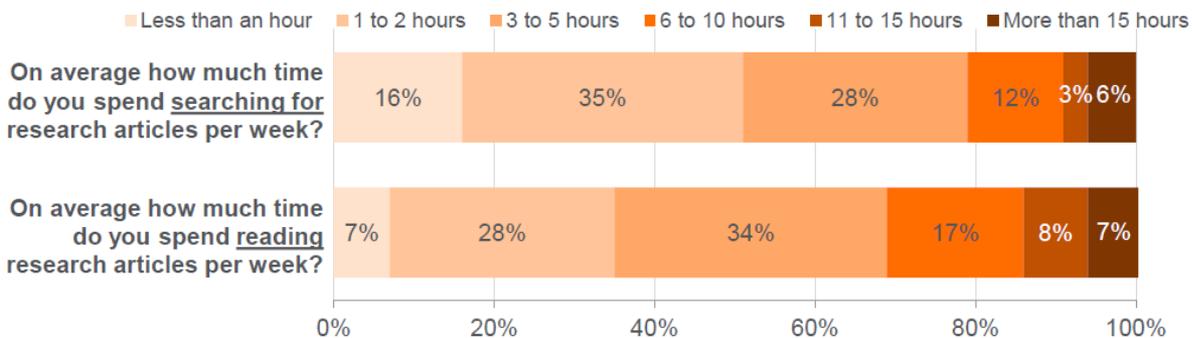
2019 Average (mean)	2011 Average (mean)
SEARCHING 4 hours and 8 minutes	SEARCHING 3 hours and 42 minutes
READING 5 hours and 18 minutes	Reading 5 hours and 36 minutes

Legend: None ■ 1 article ■ 2 to 4 articles ■ 5 to 9 articles ■ 10 to 15 articles ■ 16 to 30 articles ■ More than 30 articles

On average how many articles do you read per week?
2% | 14% | 46% | 24% | 10% | 3% | 1%

0% 20% 40% 60% 80% 100%
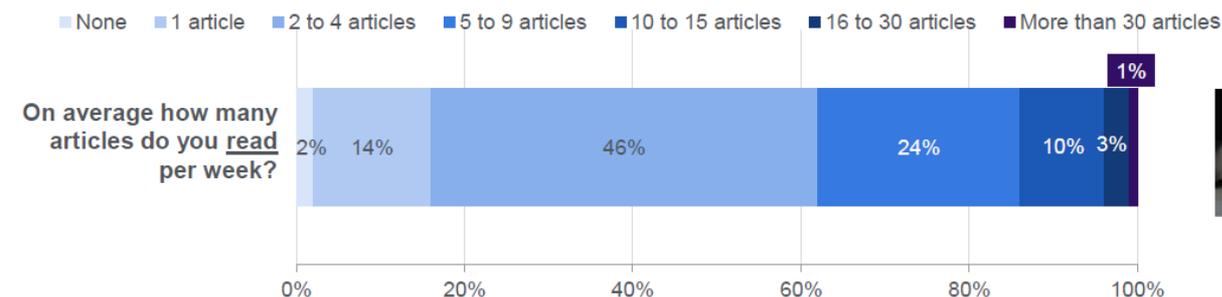
READING 5.4 articles per week	READING 6 articles per week

Approximately what percentage of the research articles you read per week do you find useful?
51%
50% in 2016
56% in 2013

* 'Articles downloaded' in 2013 and 2014

Base: 2016 n= 1691; 2014 n=2344; 2013 n=3001

Scopus is the largest abstract and citation database of peer-reviewed literature, and features smart tools that allow you to track, analyze and visualize scholarly research.

77.6 million
Items

22,800+
Serial titles

150,000+
Books

5000+
Publishers

1.4 billion cited references dating back to 1970

Scopus®

~70,000
Affiliation Profiles

16 million
Author profiles

Identify and analyze which journals to read/submit to

Help researchers manage career-citation counts and h-index

Decide what, where and with whom to collaborate

Track impact of research; monitor global research trends

Find out what already exists in the global world of research

Determine how to differentiate research topics, find ideas

Scopus delivers a comprehensive view on the world of research.
No packages, no add-ons. One all-inclusive subscription.

The Bibliographic Indexing Leader

Scopus is the largest abstract and citation database of peer-reviewed scholarly literature, making it a highly recommended resource for discovering the world of research

Expert curation

There are 104,586* active scholarly titles

> Of which 47,519* are peer-reviewed

> **Scopus** indexes 24,600+

> Curated content

> Titles on Scopus are rigorously reviewed and selected by an independent board of subject matter experts to include 52% of the world's peer-reviewed scholarly literature.

* Source: Ulrich's Web Global Serials Directory, February 15, 2019

Global Representation means global discovery

Global Representation
(number of active titles)

North America
6,600+
54% more than nearest competitor

Middle East & Africa
860+
236% more than nearest competitor

Western Europe
12,170+
75% more than nearest competitor

East Europe incl. Russia
1,750+
220% more than nearest competitor

Latin America
790+
193% more than nearest competitor

Asia Pacific
2,230+
265% more than nearest competitor

Australia/ New Zealand
260+
225% more than nearest competitor

What content is in Scopus?

Scopus Coverage *Across all subjects and content types*

- Updated daily-approximately **11,000** articles per day indexed
- **18.4M** open access documents
- "Articles in Press" from **>8,740** titles

Number of journals by subject area**

Physical sciences
9,056

Health sciences
7,596

Social sciences
11,526

Life sciences
5,164

Journals

25,837*
Peer-reviewed journals

247 Trade journals

5,408 Gold OA Journals (DOAJ/ROAD)

17,0M fully-indexed funding acknowledgements

1,10M preprints

Full metadata, abstracts and cited references (refs post-1970 only)

Citations back to 1970

Conferences

>140K
Conference events

>11,03M
Conference papers

Mainly Engineering, mathematics, physics and computer sciences

Special issue of regular journal &conference proceedings.

Books

63,3K individual book series volumes

>2.35M Items

253,000+
Stand-alone books

Mainly social sciences and arts & humanities

monographs, edited volumes, major reference works and graduate level textbooks

Patents

¯ 7M
47.7M Patents

5 major patent offices:

- WIPO
- EPO
- USPTO
- JPO
- UK IPO

*Journals may be classified in multiple subject areas: this count includes current actively indexed titles only
**Total number of Scopus journals in database including inactive titles is 40.804

Update: Feb 2022

Scopus

The Bibliographic Index Leader

>75M records and over **23,500** active titles from more than **5K** international publishers. More than **3,759** Gold Open Access journals indexed, **165K** books and **8,3M** conference proceedings*

Unbiased, comprehensive journal coverage with titles from **many reputable scholarly publishers:**

Scopus delivers a comprehensive view on the world of research

No packages, no add-ons.

One all-inclusive subscription

11% **ELSEVIER**
7% **SPRINGER NATURE**
5% Taylor & Francis
Taylor & Francis Group
4% **WILEY-BLACKWELL**
2% **SAGE**
1% **Wolters Kluwer** Health
1% **BRILL**
1% **IEEE**
1% Emerald
1% **KARGER** Medical and Scientific Publishers
1% **OXFORD** UNIVERSITY PRESS
1% **BENTHAM SCIENCE**
1% **INDERSCIENCE** PUBLISHERS
1% **CAMBRIDGE** UNIVERSITY PRESS

Other 60%

Source: Feb 2018 title list at https://www.elsevier.com/solutions/scopus/content

Leading in Quality & Quantity

Scopus continually processes, enriches and makes available a vast quantity of data, with rigorous quality-control standards to maintain the integrity of the database.

The Gold Standard

Scopus is recognized for its excellence by

5,000

customers, including

150

leading research organizations who continue to choose Scopus for research assessment and evaluation purposes over any other competitor.

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

Reach NC

The World Bank

REF2014
Research Excellence Framework

UK BIS

Queen's University Belfast

STINT

RFBR

Russian Foundation for Basic Research

OECD
BETTER POLICIES FOR BETTER LIVES

Ural Federal University

Ural Federal University
named after the first President of Russia B.N.Yeltsin

New Jersey Economic Development Authority

MD Anderson

Université Paris Saclay

National Science Foundation

2018 DIGEST
SCIENCE & ENGINEERING INDICATORS

CAPES Brazil

ISTIC

NIAD-QE

IISER

TCI-Thailand

FCT Portugal

Danish BFI

Nigerian Government

Gazi University

Peking University

NRF-Korea

erc

European Commission

Italy ANVUR

Germany IFQ

Keio University

Nanyang Technologica University

European Commission & ERC

Kiel University

Rankings organizations

QS WORLD UNIVERSITY RANKINGS

THE WORLD UNIVERSITY RANKINGS

FT FINANCIAL TIMES

NIKKEI TRENDY NET
日経トレンディネット

Ranking SZKÓŁ WYŻSZYCH Perspektywy 2019

nirf

# World university rankings – QS

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

QS World University Rankings – http://www.topuniversities.com/university-rankings/world-university-rankings
Published since 2004 by Quacquarelli Symonds
Formerly (until 2009) produced with Times Higher Education as *THE-QS World University Rankings*
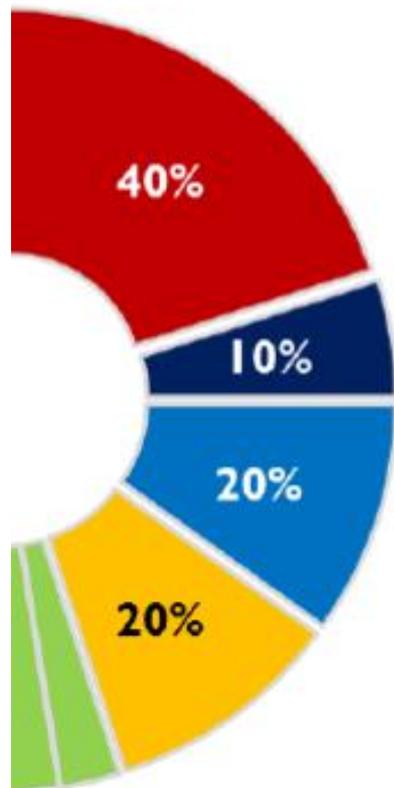
Academic reputation (40%)
From QS Global Academic Survey with almost 63,700 responses for 2014/15

Employer reputation (10%)
From QS Global Employer Survey with 28,800 responses for 2014/15

Publication and citation data from Scopus is used

Citations per faculty (20%)
Citation counts from last five years considered
Citation data source: Scopus
Author self-citations excluded
Normalised by staff FTE figures

Scopus

Faculty/student ratio (20%)
FTE values used for faculty and students

40%

10%

20%

20%

International students (5%)
Proportion of students that are international
International faculty (5%)
Proportion of faculty that are international

World university rankings – THE

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

THE

THE World University Rankings – http://www.timeshighereducation.co.uk/world-university-rankings/
Published since 2010 by the Times Higher Education
Broke away from the QS-partnered rankings prior to 2010 edition
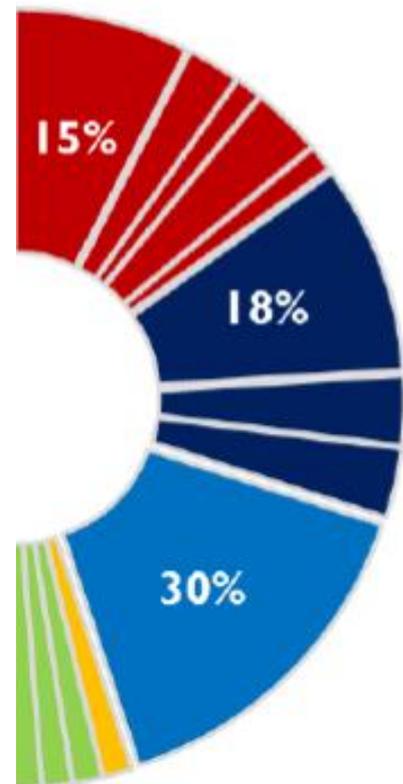
Teaching: the learning environment **(30%)**
Academic reputation survey: reputation for teaching (15%)
Staff to student ratio (4.5%)
Ratio of doctoral to bachelor's degrees awarded (2.25%)
(Field-weighted) number of doctorates awarded per staff FTE (6%)
Institutional income per staff FTE (2.25)

Publication and citation data from Scopus is used

Research: volume, income and reputation **(30%)**
Academic reputation survey: reputation for research excellence (18%)
(Field-weighted) research income per staff FTE (6%)
(Field-weighted) research output per staff FTE (6%)

Citations: research influence **(30%)**
(Field-weighted) citations in 2006-11 to papers published 2006-10

Scopus

Industry income: innovation **(2.5%)**
Income from industry per staff FTE

International outlook: staff, students and research **(7.5%)**
Ratio of international to domestic students (2.5%)
Ratio of international to domestic staff (2.5%)
(Field-weighted) proportion of research papers with international co-authors (2.5%)

15%

18%

30%

Transparent Scopus selection criteria for serial content

<u>All</u> titles should meet <u>all</u> minimum criteria in order to be considered for Scopus review:

Peer-review	English abstracts	Regular publication	Roman script references	Pub. ethics statement

Eligible titles are reviewed by the Content Selection & Advisory Board according to a combination of 14 quantitative and qualitative selection criteria:

Journal Policy	Quality of Content	Journal Standing	Regularity	Online Availability
• Convincing editorial concept/policy • Type of peer-review • Diversity geographic distribution of editors • Diversity geographic distribution of authors	• Academic contribution to the field • Clarity of abstracts • Quality and conformity with stated aims & scope • Readability of articles	• Citedness of journal articles in Scopus • Editor standing	• No delay in publication schedule	• Content available online • English-language journal home page • Quality of home page

https://www.elsevier.com/solutions/scopus/content/content-policy-and-selection or titlesuggestion@scopus.com
Previous webinar with more information on Scopus content selection criteria : https://blog.scopus.com/webinars

Continuous, online title review process for selecting new journals for Scopus coverage
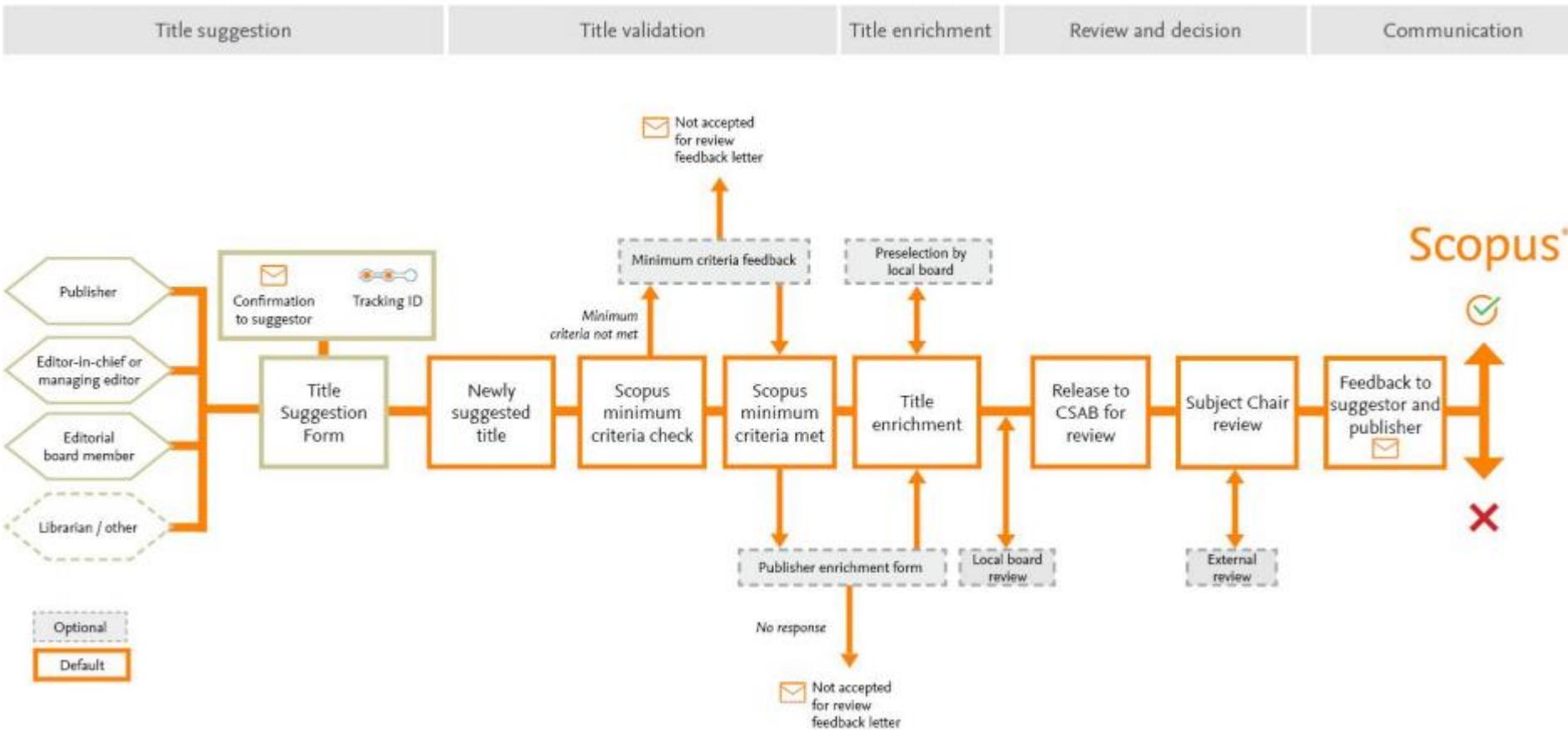
Objective, High-quality Resources

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

Get to know
Scopus

Scopus delivers a comprehensive view on the world of research.

No packages, no add-ons.

One all-inclusive subscription.

Content Selection & Advisory Board (CSAB)

All journals covered by Scopus are approved by an independent Content Selection & Advisory Board (CSAB).

CSAB members are subject experts from all over the world and chosen for their expertise in specific subject areas. Many have (journal) editor experience.

ELSEVIER

Independent Content Selection Advisory Board (CSAB)

Professor & Chairman Jörg-Rüdiger Sack
Carleton University
Canada
CSAB Chair – Computer Science

Professor Henry Wai-chung Yeung
National University of Singapore
Singapore
CSAB Chair – Social Sciences

Professor Julie J. Li
City University of Hong Kong
Hong Kong SAR
CSAB Chair – Business, Management

Ms. Karen Holland
University of Salford
United Kingdom
CSAB Chair – Nursing; Health Professions;

Professor Richard Whatmore
University of St Andrews
United Kingdom
CSAB Chair – Arts & Humanities

Professor Peter Miller
Medical University of South Carolina
United States of America
CSAB Chair – Psychology, Dentistry,
and Veterinary Sciences

Professor Peter Brimblecombe
City University of Hong Kong
Hong Kong SAR
CSAB Chair – Environmental Science

Associate Professor Jaya Raju
University of Cape Town
South Africa
CSAB Chair – Library and Information Sciences;
Multidisciplinary

Dr. David Rew
University Hospital of Southampton
United Kingdom
CSAB Chair – Medicine

Professor Evan Bieske
University of Melbourne
Australia
CSAB Chair – Physics & Astronomy,
Chemistry, Chemical Engineering,
Energy, Material Sciences

Professor Manolis Papadrakakis
National Technical University Athens
Greece
CSAB Chair – Engineering

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

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

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

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

Professor David Nelken
King's College London
United Kingdom
CSAB Chair – Law, Crime, Criminology and Criminal Justice

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

Searching Scopus - Demonstration

Use Cases

- Exploring literature

- Identifying potential collaborators

- Assessing the quality or 'impact' of a paper

- Analyzing journals for reading or to target publication

- Your Scopus author profile

- Any other topics you want to nominate

1

GO THE LIBRARY WEBSITE

- www.library.uptmedu.my

or

- kuptmremotexs.co

2

CLICK COLLECTION

- Choose Digital Collection
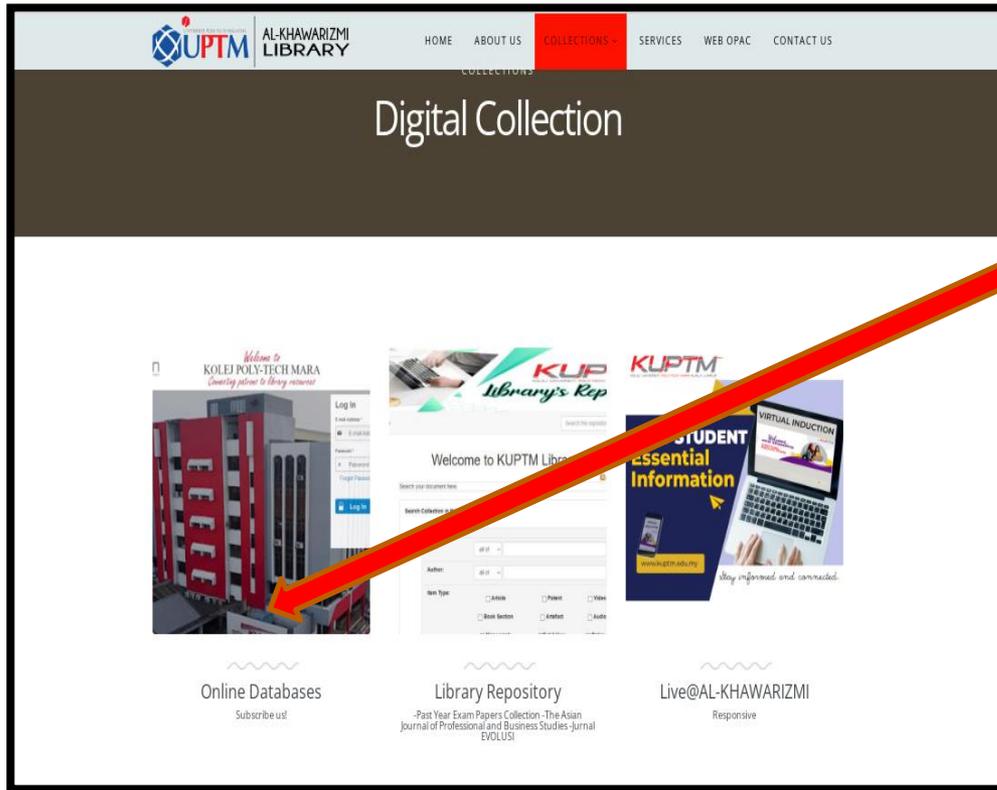
CLICK ONLINE DATABASE

③

Access for :

Eprint

Collection Past Year Exam paper & Jurnal KUPTM

ONLINE DATABASE

Available

For Access

E-Database

- Lawnet
- Proquest Ejournal
- Elsevier Scopus

(Annual subscription)

Ebook

Ebook (Annual subscription)
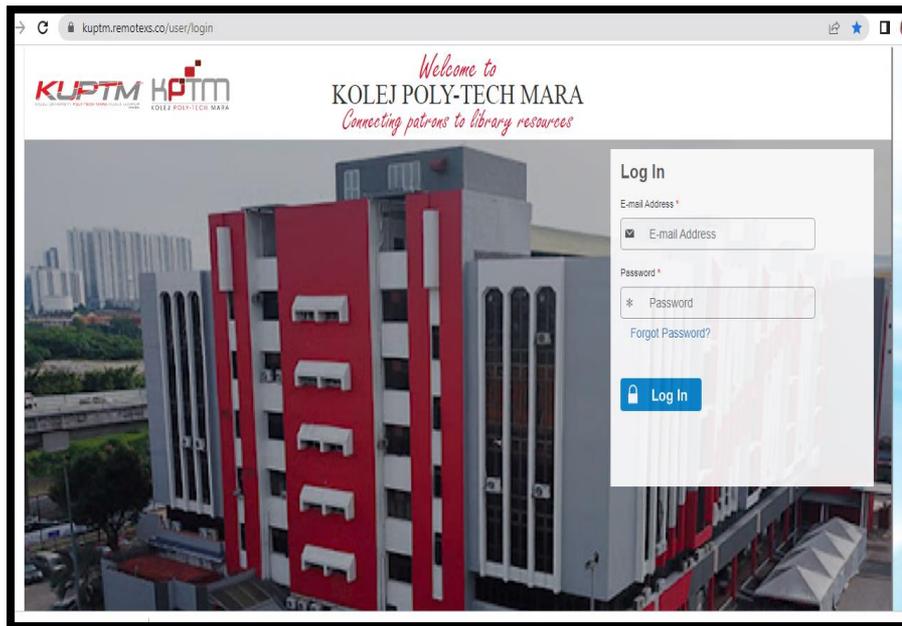
4 **Login to your account using email UPTM/KUPTM and your password**

How to Log In

Log In

E-mail Address *

abc@uptm.edu.my / xyz@kuptm.edu.my

Password *

uptm@2023

Forgot Password?

for example

🔒 Log In

Exploring Literature

Scopus

Search | Sources | Lists | SciVal ↗ | Google ↗

Document search

Compare sources ⟩

○ Documents ○ Authors ○ Affiliations Advanced

Search Functions

Sources & Metrics

Search tips ?

Search

Article title, Abstract, Keywords

E.g., "Cognitive architectures" AND robots

Refine Search Parameters

⟩ Limit

Reset form | Search 🔍

Advanced search

Compare sources >

○ Documents   ○ Authors   ○ Affiliations   <u>Advanced</u>   Search tips ⓘ

Enter query string

((Title-ABS-Key(adult* OR "young adult*" OR "middle*age*" OR inactiv* OR sedentary)) AND ((TITLE-ABS-KEY(exerc* OR "physical exercise*" OR aerobic* OR intermittent OR accumulat* OR interval* OR "short bout*" OR "multiple bout*")) OR (TITLE-ABS-KEY(continu* OR "long bout*" OR "single bout*")))) AND (TITLE-ABS-KEY(glucose OR "glucose intoleran*" OR "blood glucose" OR *insulin* OR "insulin sensitivity" OR "insulin resistan*" OR *glyc*mi*))

Outline query   Add Author name / Affiliation   Clear form   **Search** 🔍

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

Outline query breaks lines at logical points which helps structure the search and identify errors

Operators and field codes can be selected here, or typed into the box

Advanced search box allows combining of many codes, using operators – which allows for complex searches

Operators

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

Field codes ⓘ

Textual Content   ⌄
Affiliations   ⌄
Authors   ⌄
Biological Entities   ⌄
Chemical Entities   ⌄
Conferences   ⌄
Document   ⌄
Editors   ⌄
Funding   ⌄

Advanced Search Field Codes – 64!!

Operators

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

Field codes ⓘ

ABS	+
AF-ID	+
AFFIL	+
AFFILCITY	+
AFFILCOUNTRY	+
AFFILORG	+
ALL	+
ARTNUM	+
AU-ID	+
AUTH	+

Operators and field codes can be added by typing it in the query field, clicking on the "+" icon or by clicking on the "add" button in the example pop out.

ALL	CONFNAME	MANUFACTURER
ABS	CONFSPONSORS	ORCID
AF-ID	DOCTYPE (XX)	PAGEFIRST
AFFIL	DOI	PAGELAST
AFFILCITY	EDFIRST	PAGES
AFFILCOUNTRY	EDITOR	PMID
AFFILORG	EDLASTNAME	PUBDATETXT
ARTNUM	EISSN	PUBYEAR
AU-ID	EXACTSRCTITLE	REF
AUTH	FUND-ALL	SEQBANK
AUTHFIRST	FIRSTAUTH	SEQNUMBER
AUTHLASTNAME	FUND-SPONSOR	SRCTITLE
AUTHCOLLAB	FUND-ACR	SRCTYPE (XX)
AUTHKEY	FUND-NO	SUBJAREA(XX)
BOOKPUB	INDEX	TITLE
CASREGNUMBER	INDEXTERMS	TITLE-ABS
CHEM	ISBN	TITLE-ABS-KEY
CHEMNAME	ISSN	TITLE-ABS-KEY-AUTH
CODEN	ISSNP	TRADENAME
CONF	ISSUE	VOLUME
CONFLOC	KEY	WEBSITE
	LANGUAGE	

Search Functionality

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

- **Use Boolean Operators**
  - AND
    - Finds documents that contain ALL of the terms
    - Use this when the terms must appear and may be far apart from each other
    - Example: "Programmable Logic Controller AND Elevator"
  - OR
    - Finds documents that contain any of the terms
    - Use OR when at least one of the terms must appear (such as synonyms, alternate spellings, or abbreviations)
    - Example: micromouse OR picomouse
  - AND NOT
    - Excludes documents that include the specified term from the search
    - Use AND NOT to exclude specific terms. This connector must be used at the end of a search.
    - Example: micromouse OR picomouse AND NOT rodent

Booleans*: And / Or/ And Not

connect your search words together to either narrow or broaden your set of results.
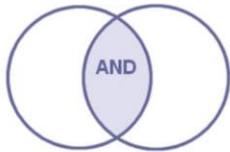
example: cloning AND humans
narrow your results, tell the database that **ALL** search terms must be present in the resulting records

example: cloning OR reproduction
broaden your results, telling the database that **ANY** of your search terms can be present in the resulting records
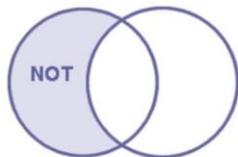
example: cloning NOT sheep
exclude words from your search
narrow your search, telling the database to ignore concepts that may be implied by your search terms

*The word "Boolean" comes from the man who invented Boolean Logic in the 19th century - George Boole. Boolean Logic is the basis of modern computer logic

Search Functionality

- **Finding Variations of a Word**
  - To search for an exact phrase, including any stop words, spaces and punctuation, enclose the phrase in braces or inverted commas: {air con} or "air con"
  - Special characters are included in the search
  - Wildcards are searched as characters

- **Finding Phrases**
  - Use wildcard characters to search for variations of a word
  - Question mark (?) replaces a single character anywhere in a word. Use 1 question mark for each character you want to replace
  - Asterisk (*) replaces multiple characters anywhere in a word; it can be used to replace 0 and more characters.

Scopus

○ Documents   ○ Authors   ○ Affiliations   Advanced

Search
"Particle Interactions"   ✕   Article title, Abstract, Keywords   ▼   +

E.g., "Cognitive architectures" AND robots

Search within results...   🔍

Refine results ①

Limit to   Exclude

Access type ⓘ	▼
Year	▼
Author name	▼
Subject area	▼
Publication stage	▼
Document type	▼
Source title	▼
Keyword	▼
Affiliation	▼
Funding sponsor	▼
Country/territory	▼
Source type	▼
Language	▼

Limit to   Exclude

Documents   Secondary documents   Patents

View Mendeley Data (435)

📊 Analyze search results   Show all abstracts   Sort on: Cited by (highest) ▼ ③

☐ All ▼   Save to Mendeley ▼   Download   View citation overview   View cited by   Save to list   •••   🖨 ✉ 🗒 ②

	Document title	Authors	Year	Source	Cited by
☐ 1	GEANT4 - A simulation toolkit	Agostinelli, S., Allison, J., Amako, K., (...), Yoshida,	2003	Nuclear Instruments and Methods in Physics Research, Section A:	13125

Hide abstract ∧   Related documents ④

GEANT4 is a toolkit for simulating the passage of particles through matter. It includes a complete range of functionality including tracking, geometry, physics models and hits. The physics processes offered cover a comprehensive range, including electromagnetic, hadronic and optical processes, a large set of long-lived particles, materials and elements, over a wide energy range starting, in some cases, from 250 eV and extending in others to the TeV energy range. It has been designed and constructed to expose the physics models utilised, to handle complex geometries, and to enable its easy adaptation for optimal use in different sets of applications. The toolkit is the result of a worldwide collaboration of physicists and software engineers. It has been created exploiting software engineering and object-oriented technology and implemented in the C++ programming language. It has been used in applications in particle physics, nuclear physics, accelerator design, space engineering and medical physics. © 2003 Elsevier Science B.V. All rights reserved.

| ☐ 2 | | | | Yoshida, H., Peirgentili, M. | |

View abstract ▼   Related documents

| ☐ 4 | Functionalized graphene sheets for polymer nanocomposites | Ramanathan, T., Abdala, A.A., Stankovich, S., (...), Prud'Homme, R.K., Brinson, L.C. | 2008 | Nature Nanotechnology 3(6), pp. 327-331 | 2655 |

① Refine Search Results

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

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

④ Abstract/ Article Record

Scopus

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Ass...
Volume 506, Issue 3, 1 July 2003, Pages 250-303

Author/Article Information

GEANT4 - A simulation toolkit (Article)

Agostinelli, S.[ae], Allison, J.[as] ✉, Amako, K.[e], Apostolakis, J.[a], Araujo, H.[aj], Arce, P.[almx], Asai, M.[gai], Axen, D.[u], Banerjee, S.[lbh], Barrand, G.[an], Behner, F.[l], Bellagamba, L.[c], Boudreau, J.[bc], Broglia, L.[ar], Brunengo, A.[c], Burkhardt, H.[a], Chauvie, S.[bibk], Chuma, J.[h], Chytracek, R.[a], Cooperman, G.[ay], Cosmo, G.[a], Degtyarenko, P.[d], Dell'Acqua, A.[ai], Depaola, G.[ty], Dietrich, D.[af], Enami, R.[ab], Feliciello, A.[bi], Ferguson, C.[bg], Fesefeldt, H.[lo], Folger, G.[a], Foppiano, F.[ac], Forti, A.[as], Garelli, S.[ac], Giani, S.[a], Giannitrapani, R.[bn], Gibin, D.[mbb], Gomez Cadenas, J.J.[mbo], Gonzalez, I.[q], Gracia Abril, G.[n], Greeniaus, G.[hpag], Greiner, W.[af], Grichine, V.[f], ▲

⊞ View additional authors

[a] European Organization for Nuclear Research (CERN) Switzerland, United States
[b] European Space Agency (ESA), ESTEC, Netherlands
[c] Istituto Nazionale di Fisica Nucleare (INFN), Italy

⊞ View additional affiliations

Metrics

Abstract
▼ View references (131)

GEANT4 **is a toolkit** for simulating the passage of particles through matter. It includes a complete range of functionality including tracking, geometry, physics models and hits. The physics processes offered cover a comprehensive range, including electromagnetic, hadronic and optical processes, a large set of long-lived particles, materials and elements, over a wide energy range starting, in some cases, from 250 eV and extending in others to the TeV energy range. It has been designed and constructed to expose the physics models utilised, to handle complex geometries, and to enable its easy adaptation for optimal use in different sets of applications. The **toolkit** is the result of a worldwide collaboration of physicists and software engineers. It has been created exploiting software engineering and object-oriented technology and implemented in the C++ programming language. It has been used in applications in particle physics, nuclear physics, accelerator design, space engineering and medical physics. © 2003 Elsevier Science B.V. All rights reserved.

Author keywords
Distributed software development; Geometrical modelling; Object-oriented technology; Particle interactions; **Simulation**; Software engineering

Indexed keywords
Particle interactions
Engineering controlled terms: Computer **simulation**; High energy physics; Nuclear physics; Object oriented programming; Particle accelerators; Software engineering
Engineering main heading: Nuclear instrumentation

ISSN: 01689002   CODEN: NIMAE   Source Type: Journal   Original language: English
DOI: 10.1016/S0168-9002(03)01368-8   Document Type: Article

Abstract and Keywords of the articles

Cited Documents

References (131)
View in search results format

○ All ⊟ CSV export ▾ | 🖨 Print | ✉ E-mail | 🗎 Save to PDF | ⊘ Create b...

○ Giani, S.
1 (1998) *GEANT4: An Object-oriented Toolkit for Simulation in HEP.* Cited 21 times.
   CERN/LHCC 98-44, GEANT4 Web page
   http://cern.ch/geant4

○ Amako, K.
2 *Proceedings of CHEP94*
   San Francisco, CA, USA, LBL-35822 CONF-940492

Related Documents

Metrics ⓘ   View all metrics ⟩

10474 ❝❞   Citations in Scopus
           99th Percentile

140.44 ⟋   Field-Weighted Citation Impact

PlumX Metrics
Usage, Captures, Mentions,
Social Media and Citations
beyond Scopus.

Cited by 10474 documents

The design of JLAMT: An aided tool for large-scale complex physical modeling
Ma, Y. , Fu, Y. , Qin, G.M.
(2019) Advances in Intelligent Systems and Computing

Geant4 simulation for commissioning of proton therapy centre
Tan, H.Q. , Phua, J.H. , Tan, L.
(2019) IFMBE Proceedings

Quantifying the spatial and angular distribution of lethal neutrons for treating planning
Yeo, J.J.W. , Tan, H.Q. , Ang, K.W.
(2019) IFMBE Proceedings

View all 10474 citing documents

Inform me when this document is cited in Scopus:
Set citation alert ⟩   Set citation feed ⟩

Related documents

The Geant4 toolkit: Simulation capabilities and application results
Pia, M.G.
(2003) Nuclear Physics B - Proceedings Supplements

Simulation of antiproton-nuclear annihilation at rest
Kossov, M.
(2004) IEEE Nuclear Science Symposium Conference Record

Hadronic shower models in GEANT4 - The frameworks
Wellisch, J.P.
(2001) Computer Physics Communications

View all related documents based on references

Find more related documents in Scopus based on:
Authors ⟩   Keywords ⟩

Article Metrics Module

Metric Details

Learn more about Article metrics ⑦

13004 Citations
Total number of times this document has been cited in Scopus.

⚙

→] Export

Date range: 2016 ▼ to 2020 ▼ [Update]

- ⦿ Include all citations
- ○ Exclude self citations
- ○ Exclude citations from books

5300 citations in this date range


```
Citations
1500
1000
 500
   0
        2016    2017    2018    2019    2020
                    Years
```

2019
1238 citations in Scopus
Click point to view document list
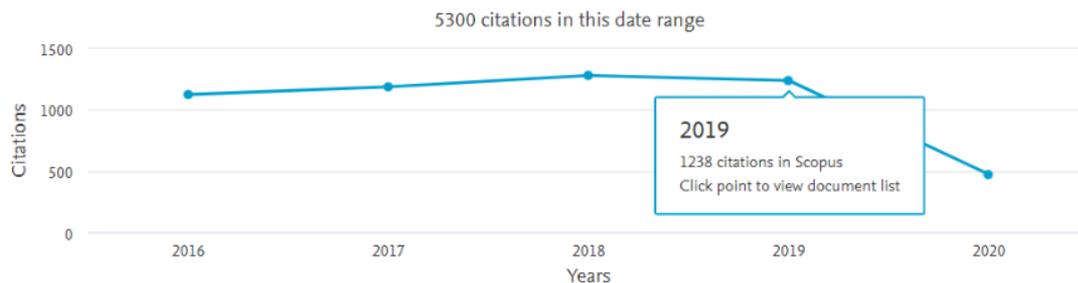
Citation benchmarking
Shows how citations received by this document compare with the average for similar documents.

99th percentile

Field-Weighted Citation Impact
⚙

Shows how well this document is cited when compared to similar documents. A value greater than 1.00 means the document is more cited than expected.

146.47

PlumX Metrics ⑦
see details

Citations	Usage	Captures	Mentions	Social Media
CrossRef - Citation Indexes: 10258	EBSCO - Abstract Views: 7	CiteULike - Readers: 4	Blogs: 3	Facebook - Shares, Likes & Comments: 2
	EBSCO - Link-outs: 4	CiteULike - Readers: 1	Wikipedia - References: 3	Twitter - Tweets: 5
		Mendeley - Readers: 1664		
		Mendeley - Readers: 1604		
		Mendeley - Readers: 1433		
		Mendeley - Readers: 72		
		Mendeley - Readers: ...		

PlumX Metrics

PLUMX

Metrics Categories

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

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

MENTIONS
(blog posts, comments, reviews, Wikipedia links)

SOCIAL MEDIA
(+1s, likes, shares, tweets)

CITATIONS
(citation indexes, patent citations, clinical citations)

Plum Print

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

- The Plum Print is dynamic, each circle in the Plum Print represents the metrics in the associated category by color.

- The larger the circle, the more metrics in that category.

- There is a variety of ways to represent the Plum Print on article pages or in result lists.

- Designed to communicate engagement without a score

Export to Mendeley

☐ All ˅   Save to Mendeley ˅   Download   View citation overview   View cited by   Save to list   •••   🖨   ✉   📄

Document tit   Export document settings ⓘ   ✕

You have chosen to export 2 documents

☐ 1   GEANT4 - A s

Select your method of export

⦿ 🅜 MENDELEY   ○ 🆂 RefWorks   ○ RIS Format (EndNote, Reference Manager)   ○ CSV (Excel)   ○ BibTeX   ○ Text (ASCII in HTML)
What information do you want to export?

Customize export

☐ Citation information	☐ Bibliographical information	☐ Abstract and Keywords	☐ Funding Details	☐ Other information

View abstract   ☐ Author(s)   ☐ Affiliations   ☐ Abstract   ☐ Number   ☐ Tradenames and Manufacturers
☐ Document title   ☐ Serial identifiers (e.g. ISSN)   ☐ Author Keywords   ☐ Acronym   ☐ Accession numbers and Chemicals
☐ Year   ☐ PubMed ID   ☐ Index Keywords   ☐ Sponsor   ☐ Conference information
☐ Source title   ☐ Publisher   ☐ Funding text   ☐ Include references

☐ 2   Inflationary u   ☐ Volume, Issue, Pages   ☐ Editor(s)
horizon and f   ☐ Citation count   ☐ Language of Original Document
Open Access   ☐ Source and Document Type   ☐ Correspondence Address
☐ DOI   ☐ Abbreviated Source Title

View abstract

Cancel   **Export**

🅜 MENDELEY   nts and applications   Allison, J., Amako, K.,   2006   IEEE Transactions on Nuclear   3539
Apostolakis, J., (...),   Science
Yoshida, H.,   53(1), pp. 270-278
Peirgentili, M.
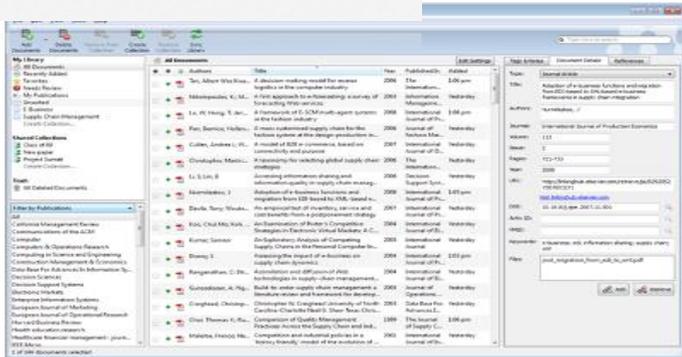
Mendeley is a ***reference manager***
allowing you to manage, read, share,
annotate and cite your research papers...

Export to Mendeley

Looking for an easy way to store references and collaborate with others?

Manage, organize and connect around books and journals with Mendeley, seamlessly embedded in ScienceDirect

Mendeley is a reference manager allowing you to manage, read, share, annotate and cite your research papers...

...and an academic social network with 3 million users to connect like-minded researchers & discover research trends and statistics…

…forming a crowdsourced database with a unique layer of social research information and an Open API

Quickly export your Book chapters and journal articles into Mendeley from ScienceDirect

Download Multiple PDFs

TITLE-ABS-KEY ("Particle Interactions")

✎ Edit   💾 Save   🔔 Set alert   📶 Set feed

Search within results...

Refine results

Limit to   Exclude

Access type ⓘ   ⌄

Year

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

View more

Author name   ⌃

Documents   Secondary documents   Patents

View Mendeley Data (435)

▥ Analyze search results   Show all abstracts   Sort on: Cited by (highest)   ⌄

☐ All ⌄   Save to Mendeley ⌄   Download   View citation overview   View cited by   Save to list   •••   🖨   ✉   📄

Document title   Authors   Year   Source   Cited by

2003   Nuclear Instruments and   13125
                                                          Methods in Physics Research,
                                                          Section A: Accelerators,

Batch Download
(up to 50 documents per download)
only support IE 10 & 11

View abstract ⌄   Relate

☐ 2   Inflatory universe: A p   6533
       and flatness problems
       Open Access

SC → ◉ (Chrome)

The Scopus Document Download Manager requires an extension ⓘ

We created a fast and lightweight solution for the Chrome browser.
Click the button below to download the extension:

Get extension

Setting up Search Alerts

TITLE-ABS-KEY ("Particle Interactions")

✏ Edit   💾 Save   🔔 Set alert   📶 Set feed

Search within results...

Refine results

Limit to   Exclude

Access type ⓘ

Year

☐ 2020
☐ 2019
☐ 2018
☐ 2017
☐ 2016

View more

Author name

Set alert   ✕

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

Search terms

TITLE-ABS-KEY ("Particle Interactions")   ✏ Edit

* Required fields

Name of alert *
"particle interactions"

Email address(es) *
ylling61@yahoo.com

E.g., j.smith@mail.com, p.smith@mail.com

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

---

...uments   Patents   View Mendeley Data (435)

Show all abstracts   Sort on: Cited by (highest) ▼

Download   View citation overview   View cited by   Save to list   •••   🖨   ✉   📄

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

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

Analyze Results

Exercise

Use Scopus to find "oil palm biomass" affiliated to Malaysia

❖ **Who is the most prolific author in Malaysia?**
 Hassan, M. A.

❖ **How many citations does the Malaysia's highest cited paper on "oil palm biomass" obtained?**
 322

❖ **What are the top 3 source titles that published the most number of papers on "oil palm biomass" in Malaysia?**
 1. Journal Of Oil Palm Research
 2. Bioresource Technology
 3. Bioresources

ORCID

What is the Challenge? Scholarly Name Ambiguity

Many researchers that too closely resemble one another.

Researchers publish under name variations.

Dr. Smith
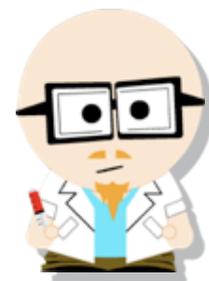
Dr. Smith

Dr. Smith

Dr. Smith
Dr. J. Smith
Dr. James Smith

What is the solution? ORCID!

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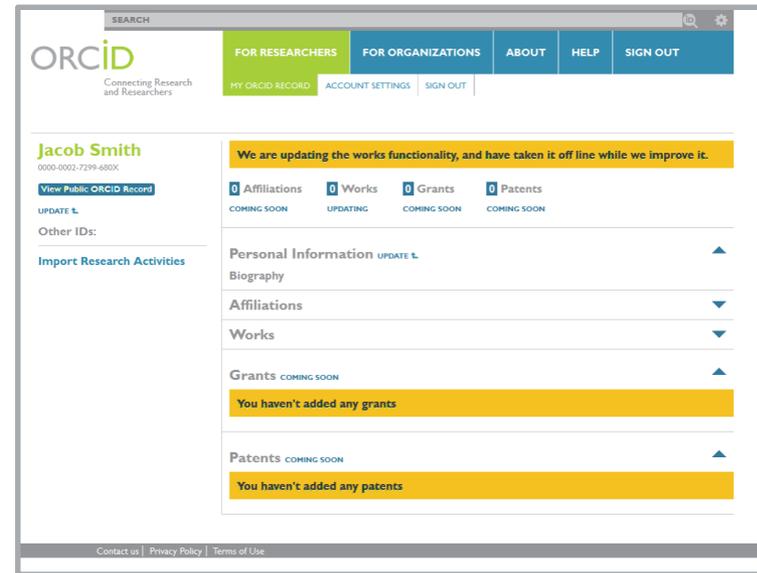
**Dr. Smith
Dr. J. Smith
Dr. James Smith**

**Dr. James Smith
46533489**

ORCID

Connecting Research
and Researchers

FOR RESEARCHERS | **FOR ORGANIZATIONS** | **ABOUT** | **HELP**

DISTINGUISH YOURSELF IN
THREE EASY STEPS

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

1 **REGISTER** Get your unique ORCID identifier Register now! Registration takes 30 seconds.

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

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

Author Search

Empowering Knowledge

Author Search

Kadirgama, Kumaran

ⓘ Universiti Malaysia Pahang, Kuantan, Malaysia   Show all author info

SC 12761486500 ⓘ   ⓘD https://orcid.org/0000-0002-9853-2675

1

✎ Edit profile   🔔 Set alert   ☰ Save to list   👥 Potential author matches   ⤒ Export to SciVal

2

Metrics overview

216
Documents by author

2469
Citations by *1843 documents*

25
h-index: View *h*-graph

Document & citation trends

Analyze author output   Citation overview

Most contributed Topics 2015–2019 ⓘ

Nanofluids; Heat Transfer Enhancement; Automobile Radiators
17 documents

Cutting Fluids; Lubrication; Tool Wear
15 documents

Diesel Engines; Alternative Fuels; Biodiesel
7 documents

View all Topics

5

| 216 Documents | Cited by 1843 Documents | 0 Preprints ^New | 236 Co-Authors | Topics |

Export all   Save all to list

4 Sort by: Date (newest) ⌄

3

> View list in search results format

> View 5874 references

🔔 Set document alert

Conference Paper
Analysis of non-dimensional numbers of fluid flowing inside tubes of flat plate solar collector
Farhana, K., Kadirgama, K., Noor, M.M.
Lecture Notes in Mechanical Engineering. 2021, pp. 121–131

0
Cited by

---

1 Author Details

2 Author Corrections

3 Search Functionality

4 Sorting Option
(Date or Number of Citations)

5 Author Publications

Scopus

Kadirgama, Kumaran
Universiti Malaysia Pahang, Kuantan, Malaysia
Author ID:12761486500

Analyze documents published between: 2006 to 2020

☐ Exclude self citations ☐ Exclude citations from books **Update Graph**

Documents ↓	Citations ↓	Title ↓
22	28	Fatigue life predicti...
23	27	Copper (II) oxide na...
24	25	Study on friction a...
25	25	Influence of operati...
26	24	Temperature analys...
27	23	Response ant colon...
28	22	Wear analysis when...
29	22	Artificial neural net...
30	22	Experimental inves...

This author's *h*-index

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

25
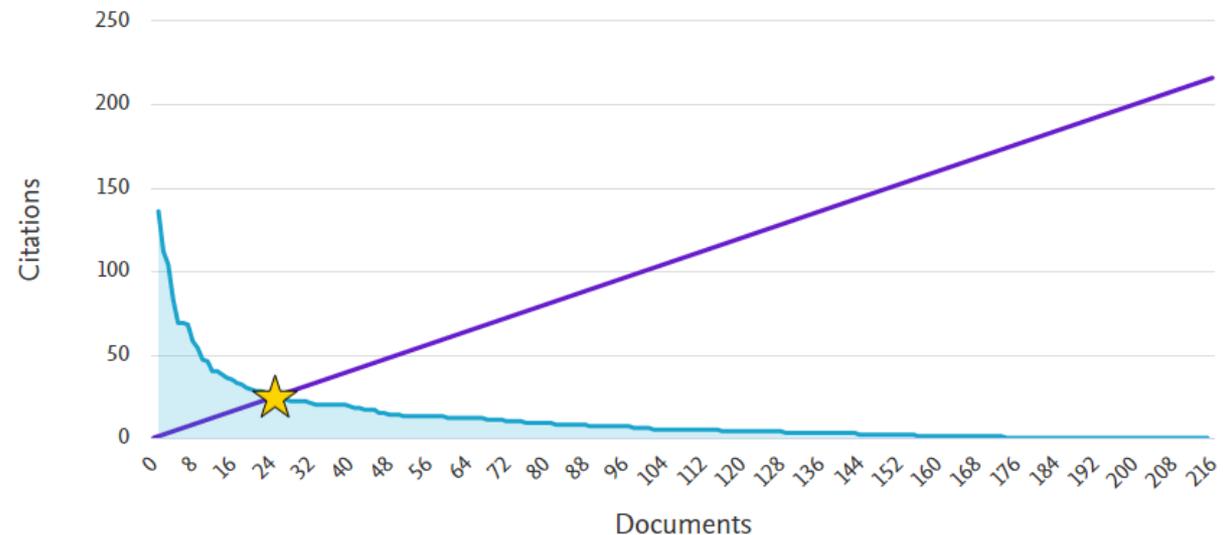
"The h-index is the highest number of papers a scientist has that have at least that number of citations."

Nature (2005)

SCOPUS -ORCID Integration via Connect to ORCID

ORCiD

Sign into ORCID or **Register now**

👤 **Personal account**	🏛 **Institutional account**

Sign in with your ORCID account

Email or ORCID iD

Email or ORCID iD

ORCID password

ORCID password

Sign into ORCID

Forgot your password or ORCID ID?

Sign in with a social media account ❓

G Sign in with Google	f Sign in With Facebook

Per ORCID's **terms and conditions** , you may only register for an ORCID iD for yourself.

First name

❓

Last name *(Optional)*

Primary email

Additional email *(Optional)*

❓

⊕ Add another email

Password

❓

⊘ 8 or more characters
⊘ 1 letter or symbol
⊘ 1 number

Confirm Password

Visibility settings

Your ORCID iD connects with your ORCID record that can contain links to your research activities, affiliations, awards, other versions of your name, and more. You control this

Request author detail corrections

Kadirgama, Kumaran

What will you be able to do:

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

Proceed to make changes

Metrics overview

216
Documents by author

2469
Citations by 1843 documents

25
h-index: View h-graph

Is there a name preference?
Please select the preferred name for the unique author profile.

Kadirgama, Kumaran

Kadirgama, Kumaran

Kadirgama, K.

Kadirgama,

Kardigama, K.

Request author detail corrections (cont.)

👥 Select Profile(s) ——— 📄 **Review Documents** ——— 🏛 Review Affiliation ——— ✓ Confirm and Submit

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

Kadirgama, Kumaran
216 documents

Display: 0-200 ▼ documents

|	Document title	Authors ∧	Year ∨	Source ∧	Cited by ∨
☑ 1	Analysis of non-dimensional numbers of fluid flowing inside tubes of flat plate solar collector	Farhana, K., Kadirgama, K., Noor, M.M.	2021	Lecture Notes in Mechanical Engineering pp. 121-131	0
☑ 2	Thermal and energy performance improvement of hybrid PV/T system by using olein palm oil with MXene as a new class of heat transfer fluid	Samylingam, L., Aslfattahi, N., Saidur, R., Yahya, S.M., Afzal, A., Arifutzzaman, A., Tan, K.H., Kadirgama, K.	2020	Solar Energy Materials and Solar Cells 218	2
☑ 3	Phase change materials and nano-enhanced phase change materials for thermal energy storage in photovoltaic thermal systems: A futuristic approach and its technical challenges	Reji Kumar, R., Samykano, M., Pandey, A.K., Kadirgama, K., Tyagi, V.V.	2020	Renewable and Sustainable Energy Reviews 133	0

Are there any documents missing?

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

Search missing documents

Request to merge authors

2 author results

Author last name **"kadirgama"** , Author first name **"k"**

✎ Edit

☐ Show exact matches only

Refine results

Limit to   Exclude

Sort on: Document count (high-low)

☐ **All** ∨   Show documents   View citation overview   **Request to merge authors**   Save to author list

Affiliation   ∧

☐ Universiti Malaysia Pahang   (2) >

☐ Faculty of Manufacturing Engineering   (1) >

☐ Huaiyin Institute of Technology   (1) >

☐ International Islamic University Malaysia   (1) >

	Author	Documents	h-index ⓘ	Affiliation	City	Country/Territory
☐ 1	Kadirgama, Kumaran Kadirgama, K.	216	25	Universiti Malaysia Pahang	Kuantan	Malaysia
☐ 2						

What will you be able to do: ✕

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

Proceed to make changes

Author and Affiliation Wizard

- Including both Author and Affiliation Profiles, Scopus delivers a comprehensive view on the World of Research.

- Scopus includes 16M Author Profiles and 70,000 Affiliation Profiles*.

- Scopus is the only database that implements algorithmic and systematic author disambiguation with high accuracy to create and maintain the most precise and complete profiles in the industry.

- Authors can themselves make changes using the Author Feedback Wizard.

Author profile generation

The **Scopus Author Identifier** uses the most powerful **algorithmic data processing** in the industry to group papers to an individual's profile with a high degree of accuracy based on matching of name, email, affiliation, subject area, citations, co-authors, etc.

The **Author Feedback Wizard** is available for Author Profile changes to be requested due to the complexities of disambiguation, such as common names, name changes, incomplete metadata from publishers, etc.

https://blog.scopus.com/posts/scopus-institution-profile-wizard

Source Browser & Journal Analyser

Research Metrics

▪ **Research metrics give a balanced, multi-dimensional view for assessing the value of published research.**

▪ **Based on the depth and breadth of its content, Scopus works with researchers, publishers, bibliometricians, librarians, institutional leaders and others in academia to offer an evolving basket of metrics that complement more qualitative insights.**

▪ **Throughout Scopus, you can access multiple metrics at the journal, article and author levels.**

Research metrics reference

Metrics illuminate the impact of your research outputs. Promotion and tenure committees, funders, advisors, research team leaders and potential collaborators are all interested in information about impact.

But where to start?
Your library can advise you on metrics that can help you to:

Decide where to publish	Add to online profile	Enrich promotion & tenure portfolio	Apply/report to funders[1]	Benchmark a collection of research outputs *(for team leaders)*
• CiteScore	• *h*-index	• *h*-index	• Percentile benchmark	• Percentile benchmark
• SJR: SCImago Journal Rank	• Percentile benchmark	• Percentile benchmark	• Journal metrics (e.g., CiteScore)	• Field-Weighted Citation Impact
• SNIP: Source Normalized Impact per Paper	• Usage	• Usage	• Usage	• *h*-index (if in the same field)
• Journal Impact Factor	• Captures	• Captures	• Captures	• Field-Weighted Download Impact[2]
	• Mentions	• Mentions	• Mentions	
	• Social media	• Social media	• Social media	
		• Citations	• Citations	

Sources Browser

Sources

| Title ⌄ | Enter title | | Find sources |

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

Filter refine list

Apply   Clear filters

Display options ⌃

☐ Display only Open Access journals

Counts for 4-year timeframe

🔘 No minimum selected

⚪ Minimum citations [____]

⚪ Minimum documents [____]

Citescore highest quartile

☐ Show only titles in top 10 percent

41,317 results

⤓ Download Scopus Source List   ⓘ Learn more about Scopus Source List

☐ All ⌄   ⧉ Export to Excel   💾 Save to source list

View metrics for year: 2019 ⌄

	Source title ↓	CiteScore ↓	Highest percentile ↓	Citations 2016-19 ↓	Documents 2016-19 ↓	% Cited ↓	⟩
☐ 1	Ca-A Cancer Journal for Clinicians	435.4	99% 1/331 Oncology	47,455	109	94	
☐ 2	MMWR Recommendations and Reports *Open Access*	152.5	99% 1/275 Health (social science)	2,288	15	87	
☐ 3	Nature Reviews Materials	123.7	99% 1/287 Materials	23,868	193	96	

Journal Metrics in Scopus: CiteScore, SNIP and SJR

CiteScore

- A metric that gives a more comprehensive, transparent and current view of a journal's impact.
- A 4 year citation window
- CiteScore 2019 numerator and denominator includes articles, reviews, conference papers, book chapters and data papers indexed by Scopus are included.

SNIP

Universiteit Leiden

- SNIP = Sourced Normalized Impact per Paper
- Refined metric calculation, **better corrects for field differences**
- Outlier scores are closer to average
- Readily understandable scoring scale with an average of 1 for easy comparison

SJR

Scimago Lab

- SJR = SCImago Journal Rank
- More prestigious nature of citations that come from within the same, or a closely related field
- **Overcome the tendency for prestige scores the quantity of journals increases**
- Readily understandable scoring scale with an average of 1 for easy comparison

www.journalmetrics.com

CiteScore is a simple metric for all Scopus journals

New CiteScore methodology: CiteScore 2019

	Citations						A
Documents							B
	2015	2016	2017	2018	2019	2020	

$$\text{CiteScore 2019} = \frac{A}{B}$$

Numerator | Citations to articles, reviews, conference papers, book chapters and data papers published in 2016-2019

Denominator | Articles, reviews, conference papers, book chapters and data papers published in 2016-2019

Sources Browser

Source details

Feedback >   Compare sources >

Cell

Scopus coverage years: from 1974 to Present

Publisher: Elsevier

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

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

View all documents >   **Set document alert**   🖺 Save to source list   Journal Homepage   🔖 Get Permission

---

CiteScore 2019
58.7   ⓘ

SJR 2019
24.698   ⓘ

SNIP 2019
7.114   ⓘ

CiteScore   **CiteScore rank & trend**   Scopus content coverage

ⓘ Improved CiteScore methodology

CiteScore 2019 counts the citations received in 2016-2019 to articles, reviews, conference papers, book chapters and data papers published in 2016-2019, and divides this by the number of publications published in 2016-2019. Learn more >   ✕

CiteScore 2019 ⌄

$$58.7 = \frac{100,190 \text{ Citations } 2016 - 2019}{1,707 \text{ Documents } 2016 - 2019}$$

Calculated on 06 May, 2020

CiteScoreTracker 2020 ⓘ

$$51.0 = \frac{75,683 \text{ Citations to date}}{1,485 \text{ Documents to date}}$$

Last updated on 07 July, 2020 • Updated monthly

CiteScore rank 2019 ⓘ

Category	Rank	Percentile
Biochemistry, Genetics and Molecular Biology	#1/197	▬▬ 99th
└ General Biochemistry, Genetics and Molecular Biology		

CiteScore Publication by year

Select up to 10 sources to compare

Selected sources: ☐ PLoS Biology × ☐ Nature Medicine × ☐ Cell ×

Remove all selections

☑ Chart ☐ Table

Search by title, publisher, ISSN, and/or subject area

Source title ▾

Enter title *

plos biology   ✕

E.g., Cell, cancer

limit to

All subject areas ▾   Search

2 Search results   CiteScore ▾

Source ↑   CiteScore ↓

☐ PLoS Biology ▾   10.6

☐ PLoS Computational Biology ▾   7.3

CiteScore publication by year ⓘ
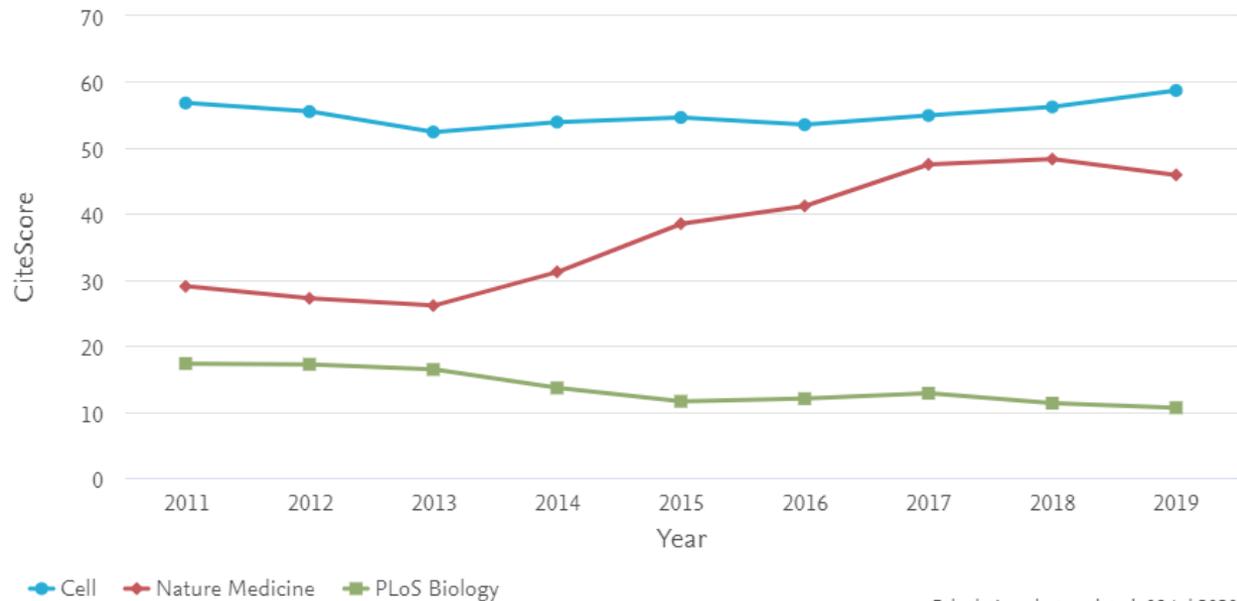
Calculations last updated: 08 Jul 2020

SJR by year
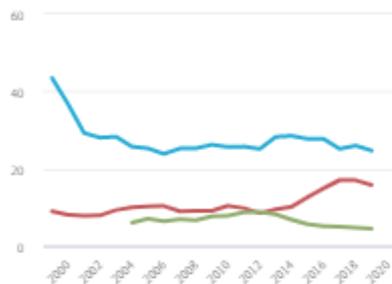
SNIP by year
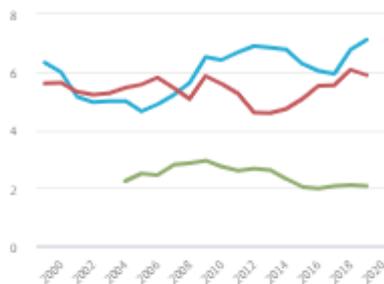
Citations by year
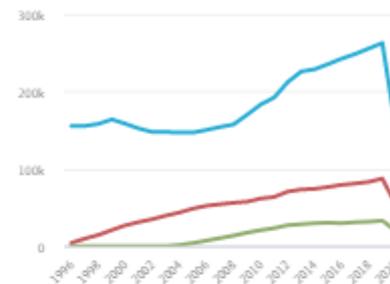
Documents by year
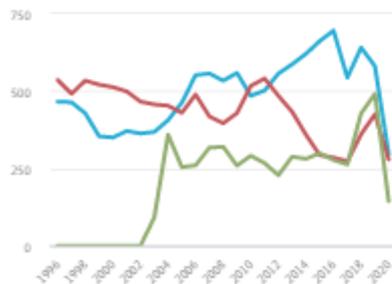
Percent not cited by year
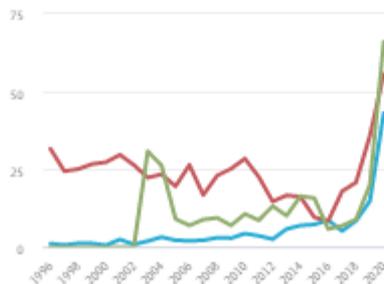
Percentage review articles by year

Research Excellence

Empowering Knowledge

Affiliation Search

Scopus Affiliation Profile

Universiti Malaysia Pahang

Karung Berkunci 12, Kuantan
Pahang, Malaysia
Affiliation ID: 60090654
Other name formats: (Universiti Malaysia Pahang) (University Malaysia Pahang) (Universiti Malaysia Pahang (ump)) (University Malaysia Pahang (ump))
(Universiti Malaysia, Pahang) (University Of Malaysia Pahang) (University Malaysia)

Affiliation profile actions
- Give feedback
- Set document alert
- Export subject area data

View: Documents/Authors

Documents, affiliation only
9,586

Authors
4,119 Save to author list

Documents by Source

Documents by subject area   Collaborating affiliations   Documents by source

Collaborating Affiliations

Sort by: Document count (high-low)

Subject	Count	Subject	Count
Engineering	5095	Earth and Planetary Sciences	240
Materials Science	2400	Medicine	224
Computer Science	1949	Decision Sciences	177
Physics and Astronomy	1264	Pharmacology, Toxicology and Pharmaceutics	147
Chemical Engineering	1172	Economics, Econometrics and Finance	89
Chemistry	1077	Arts and Humanities	61
Energy	961	Immunology and Microbiology	61
Mathematics	816	Psychology	23
Environmental Science	745	Nursing	19
Biochemistry, Genetics and Molecular Biology	431	Health Professions	15
Social Sciences	361	Neuroscience	7
Business, Management and Accounting	337	Veterinary	3
Agricultural and Biological Sciences	310	Dentistry	2
Multidisciplinary	309		

Universiti Malaysia Pahang

Pie chart: 27.8%, 13.1%, 13.0%, 10.7%, 6.9%, 6.4%, 5.9%, 5.3%, 4.5%, 4.1%, 2.4%
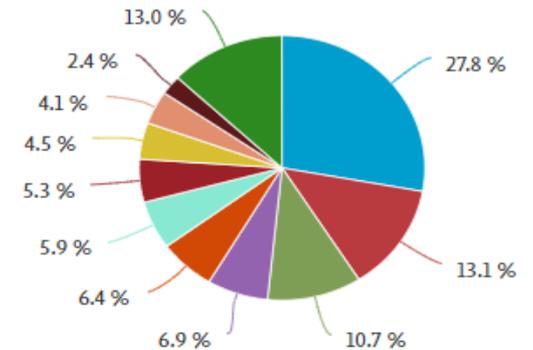
Engineering, Materials Science, Computer Science, Physics and Astronomy, Chemical Engineering, Chemistry, Energy, Mathematics, Environmental Science, Biochemistry, Genetics and Molecular Biology, Other

View Document Results

9,586 document results

AF-ID ("Universiti Malaysia Pahang" 60090654)

✏ Edit   💾 Save   🔔 Set alert

Search within results...   🔍

Refine results

Limit to   Exclude

Open Access   ⌄

Year   ⌃

☐ 2021   (70) ›
☐ 2020   (1,453) ›
☐ 2019   (1,651) ›
☐ 2018   (1,262) ›
☐ 2017   (1,180) ›

📊 **Analyze search results**   Show all abstracts   Sort on: Cited by (highest)   ⌄

☐ All ⌄   Save to Mendeley ⌄   Download   View citation overview   View cited by   Save to list   •••   🖨   ✉   🗐

	Document title	Authors	Year	Source	Cited by
☐ 1	Biosynthesis of metallic nanoparticles using plant derivatives and their new avenues in pharmacological applications – An updated report *Open Access*	Kuppusamy, P., Yusoff, M.M., Maniam, G.P., Govindan, N.	2016	Saudi Pharmaceutical Journal 24(4), pp. 473-484	283
	View abstract ⌄ Related documents				
☐ 2	Polyurethane types, synthesis and applications-a review *Open Access*	Akindoyo, J.O., Beg, M.D.H., Ghazali, S., (...), Jeyaratnam, N., Yuvaraj, A.R.	2016	RSC Advances 6(115), pp. 114453-114482	262

Analyse Search Results

Analyze search results

< Back to results

AF-ID ("Universiti Malaysia Pahang"   60090654)

9,586 document results

Select year range to analyze: 2001 to 2021   **Analyze**

Year ↓	Documents ↑
2021	70
2020	1453
2019	1651
2018	1262
2017	1180
2016	879
2015	729
2014	629
2013	429

Documents by year
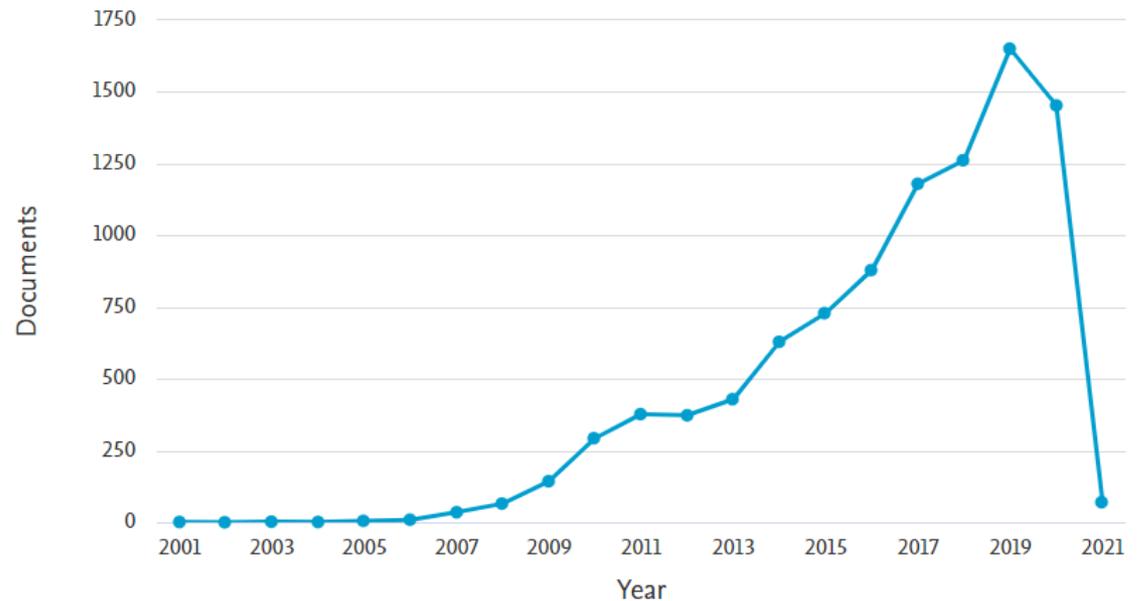
Analyse Search Results
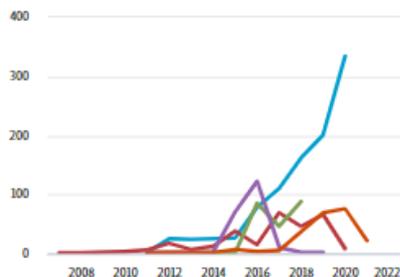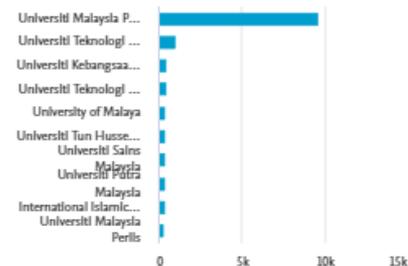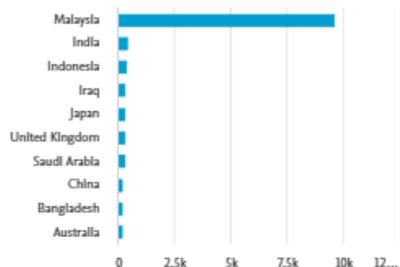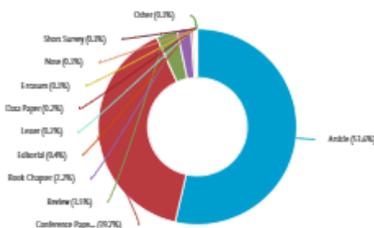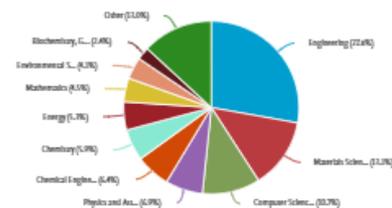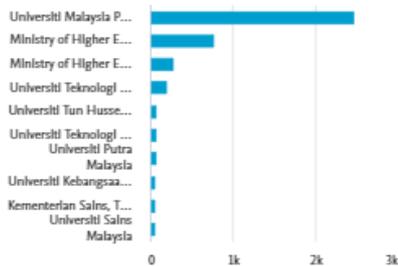
Scopus Author Profile Affiliation

4,119 affiliated authors

< Back

Author affiliation matches for: "Universiti Malaysia Pahang" ID 60090654

---

i Scopus Author Identifier ✕

The Scopus Author Identifier assigns a unique number to groups of documents written by the same author via an algorithm that matches authorship based on a certain criteria. If a document cannot be confidently matched with an author identifier, it is grouped separately. In this case, you may see more than one entry for the same author.

Refine results

Limit to   Exclude

Sort on: Document count (high-low) ▾

☐ All ▾   Export CSV   Show documents   View citation overview   Request to merge authors   Save to author list

Affiliation ⌃

☐ Universiti Malaysia Pahang   (4,119) >
☐ Universiti Teknologi Malaysia   (128) >
☐ Universiti Kebangsaan Malaysia   (59) >
☐ Universiti Sains Malaysia   (59) >
☐ Universiti Putra Malaysia   (53) >

	Author	Documents	h-index ⓘ	Affiliation	City	Country/Territory
☐ 1	Mamat, Rizalman Mamat, Mohd Rizal B. Mamat, M. R. Mamat, Rizalman Bin	314	46	Universiti Malaysia Pahang	Kuantan	Malaysia
	View last title ⌄					
☐ 2	Rahman, Md Mustafizur Rahman, Md Mostafizur Rahman, Mustafizur Rahman, Mustafa M.	303	33	Universiti Malaysia Pahang	Kuantan	Malaysia

Scopus Author Profile Affiliation

Mamat, Rizalman

ⓘ Universiti Malaysia Pahang, Kuantan, Malaysia Show all author info

SC 37057681900 ⓘ   ⓘD Connect to ORCID   ᴬᴬ Is this you? Connect to Mendeley account

✏ Edit profile   🔔 Set alert   ☰ Save to list   👥 Potential author matches   ⤷ Export to SciVal

### Metrics overview

314
Documents by author

6849
Citations by **4484 documents**

46
h-index: View h-graph

Document & citation trends
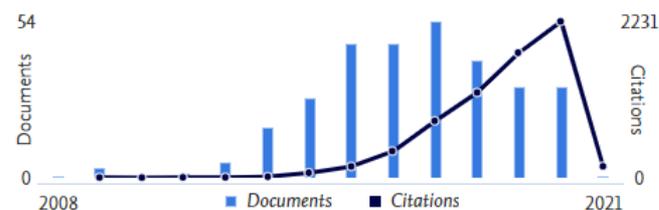
Analyze author output   Citation overview

Most contributed Topics 2015–2019 ⓘ

Fuel Tests; Diesel Engines; Exhaust Emission
60 documents

Nanofluids; Heat Transfer Enhancement; Automobile Radiators
57 documents

Octane Number; Internal Combustion Engines; Diesel Fuels
20 documents

View all Topics

---

314 Documents   Cited by 4484 Documents   **New** 0 Preprints   401 Co-Authors   Topics

Export all   Save all to list   Sort by: Date (newest) ⌄

> View list in search results format

> View 8829 references

🔔 Set document alert

Article

Investigating the contribution of carbon nanotubes and diesel-biodiesel blends to emission and combustion characteristics of diesel engine

Alenezi, R.A., Norkhizan, A.M., Mamat, R., ...Najafi, G., Mazlan, M.

Fuel, 2021, 285, 119046

0
Cited by

How does Scopus help researchers assess the impact of their work?

Scopus helps researchers assess the impact of their work in the following ways:

Scopus offers citation metrics and tools for researchers to analyze the impact of their work.

researchers can increase the visibility and discoverability of their work.

| **1.** Citation analysis and research evaluation | **2.** Collaboration opportunities | **3.** Research visibility and recognition | **4.** Advanced search and analysis capabilities: |

facilitates collaboration among researchers by providing information on authors, institutions, and their collaboration networks

offers advanced search options and filtering tools, allowing researchers to refine their search queries and find relevant articles more efficiently

Overall, Scopus offers researchers a range of benefits, including access to a vast collection of literature, tools for citation analysis and evaluation, collaboration opportunities, increased research visibility, reliable data, advanced search capabilities, and staying informed about research trends. These benefits contribute to the enhancement of research productivity, impact, and collaboration opportunities for researchers

Scopus Help & Resources

Empowering Knowledge

Help and Contact us

Where to find more information
Learn and connect with us via the Scopus blog, newsletter, Twitter, infosite & more!

Blog.Scopus.com

Twitter.com/Scopus

Librarian toolkit

Newsletter

Scopus info site: elsevier.com/scopus

Q & A