

# Increasing Research Effectiveness with Scopus & ScienceDirect

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## AGENDA

- Brief Introduction to Elsevier
- KZNMU Research Performance Overview
- SCOPUS
  - Scopus content
  - Why Use Scopus?
  - Who uses Scopus?
  - Content Selection
  - Research Metrics
- SCIENCE DIRECT



ELSEVIER

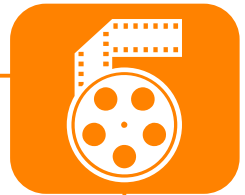


## Global Information Analytics Company

Elsevier is a **global information analytics company** specialized in **health and science**. It covers 16% of all scientific articles published globally, >17% of the world's clinical content.

Being the top scientific content provider of vital interdisciplinary information; Elsevier provides information and analytics that help institutions and professionals **progress science, advance healthcare and improve performance** for the **benefit of humanity**.

## Long and Successful Story



Elsevier, the modern publishing company, was founded in **1880**. Elsevier's history reflects a series of collaborations in the effort to advance science and health. These publishing collaborations with a group of scientific visionaries — ranging from **Jules Verne to Stephen W. Hawking** — created the foundation of scientific and medical publishing.



## A Trusted Global Partner

Elsevier employs **7.500 people in 46 countries**.

We also partner with **20.000 editors** in academia, **72.000 editorial board members**, **830.000 trusted reviewers**.

We employ over 1.000 of the world's best technologies.

25.520 academic and government institutions around the world use Elsevier products.

# Solutions Portfolio - ELSEVIER

## Core Solutions

ScienceDirect  
Scopus®



Scopus®  
SciVal  
Pure




## Research Intelligence

## Engineering

Engineering Village™

 Knovel®

 Compendex

 GEOFACETS™

Reaxys®  
Embase®  
Pathway Studio®  
pharmapendium®  
MAKE INFORMED DRUG DEVELOPMENT DECISIONS



## Life Sciences




# KZNMU Research Performance Overview 2015-2018

## KZNMU Research Overview 2015- 2018

KZNMU have 191 scholarly output in last 3 years with 10.6 citation per publication. Its FWCI is 4.58, while world average is 1.00.

Scholarly Output ⚙️

191 ▲

 [View list of publications](#)

Authors

310 ▲

Field-Weighted Citation Impact

4.58

Citation Count ⚙️

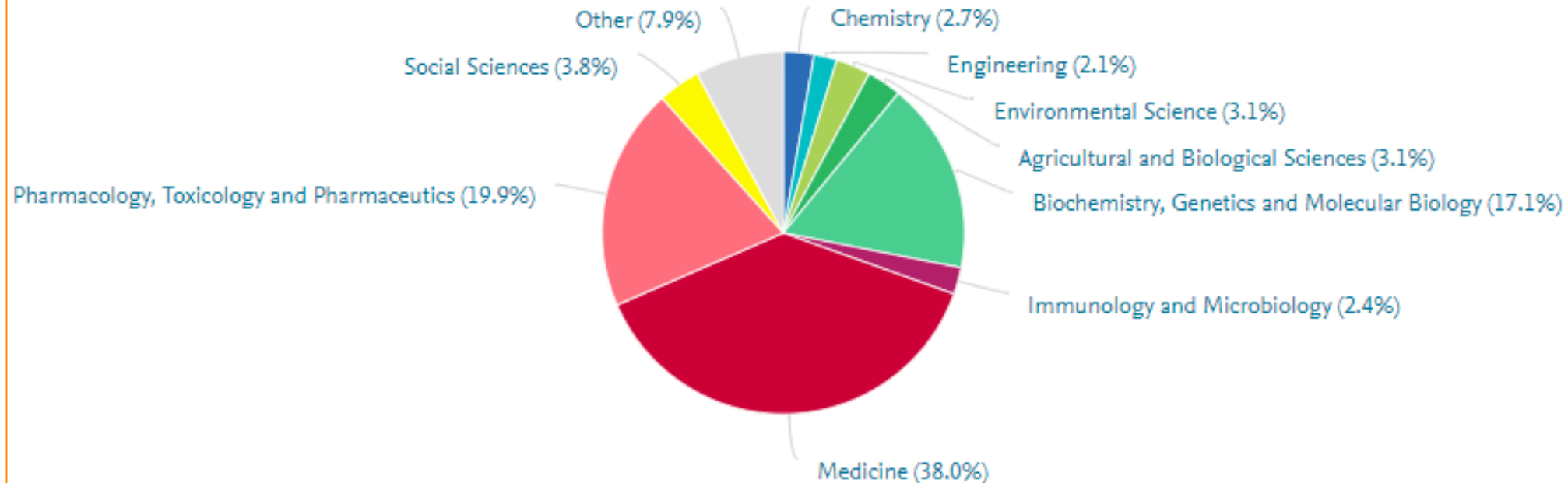
2,017

Citations per Publication ⚙️

10.6

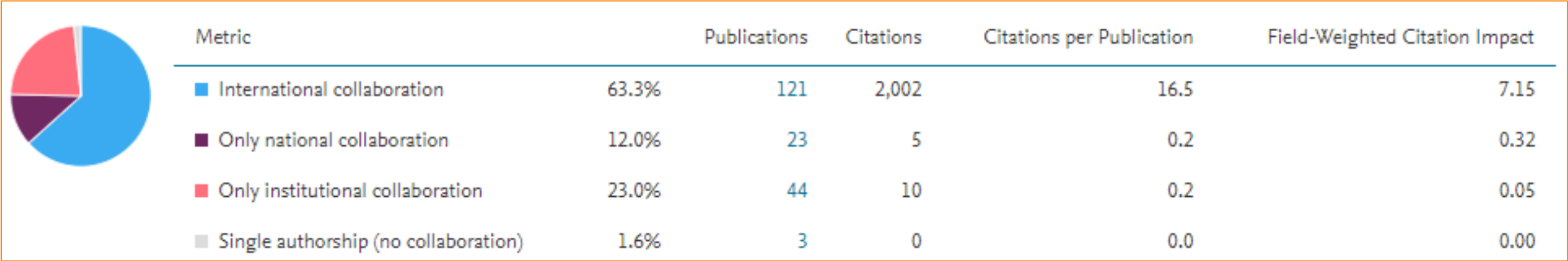
h5-index ⓘ

10



# KZNMU Research Overview 2015- 2018











International collaboration is the key to have better metrics. 63% of all outputs in KZNMU in 2015-2018 is written with an international collaborator and their impact is significantly high – 7 times more than world average!





## KZNMU Research Overview 2015- 2018

### Top 10 Collaborator

Institution	Co-authored publications ↓	Co-authors at Kazakh National Medical University	Co-authors at the other institution	Field-Weigh... ▾
 Al Farabi Kazakh National University	14 ▲	25 ▲	25 ▲	0.09
 Norwegian Institute of Public Health	14 ▲	28 ▲	14 ▲	56.43
 Russian Ministry of Health	12 ▲	11 ▲	12 ▲	63.19
 Harvard University	11 ▲	7 ▲	57 ▲	72.21
 Karolinska Institutet	11 ▲	6 ▲	25 ▲	71.78
 University of Copenhagen	11 ▲	10 ▲	18 ▲	72.07
 University of Mississippi	11 ▼	27 ▼	17 ▼	1.21
 All India Institute of Medical Sciences	10 ▲	7 ▲	13 ▲	78.69
 Cairo University	10 ▲	6 ▲	7 ▲	79.36
 Imperial College London	10 ▲	9 ▲	40 ▲	78.94



# Scopus<sup>®</sup>

# Facts and Figures - Scopus®

The **largest abstract and citation database** of **peer-reviewed** literature, and features **smart tools** that allow you **track, analyse and visualize** scholarly research



**+70 Million Multiple regional content types** from more than **6.000 publishers** and **105 countries**



\*Records back to **1788**  
 \***Over 8.000** 'article in press'  
 \***Over 4.000** active Gold Open Access journals are indexed  
 \*Additional **enhanced metadata**, i.e. 100% Medline coverage



\*Database is updated **daily**  
 \***40 different languages** are covered  
 \*Automatically generated researcher and affiliation profiles

## JOURNALS

Physical Sciences

**23,507** peer-reviewed journals  
**301** trade journals

Health Sciences

- Full metadata, abstracts and cited references (refs post-1970 only)
- Funding data from acknowledgements
- Citations back to 1970

Social Sciences

Life Sciences

## CONFERENCES

**106K** conference events  
**8.3M** conference papers

Mainly Engineering and Computer Sciences

## BOOKS

**613** book series

**38K** volumes

**166K** stand-alone books  
**1.5M** items

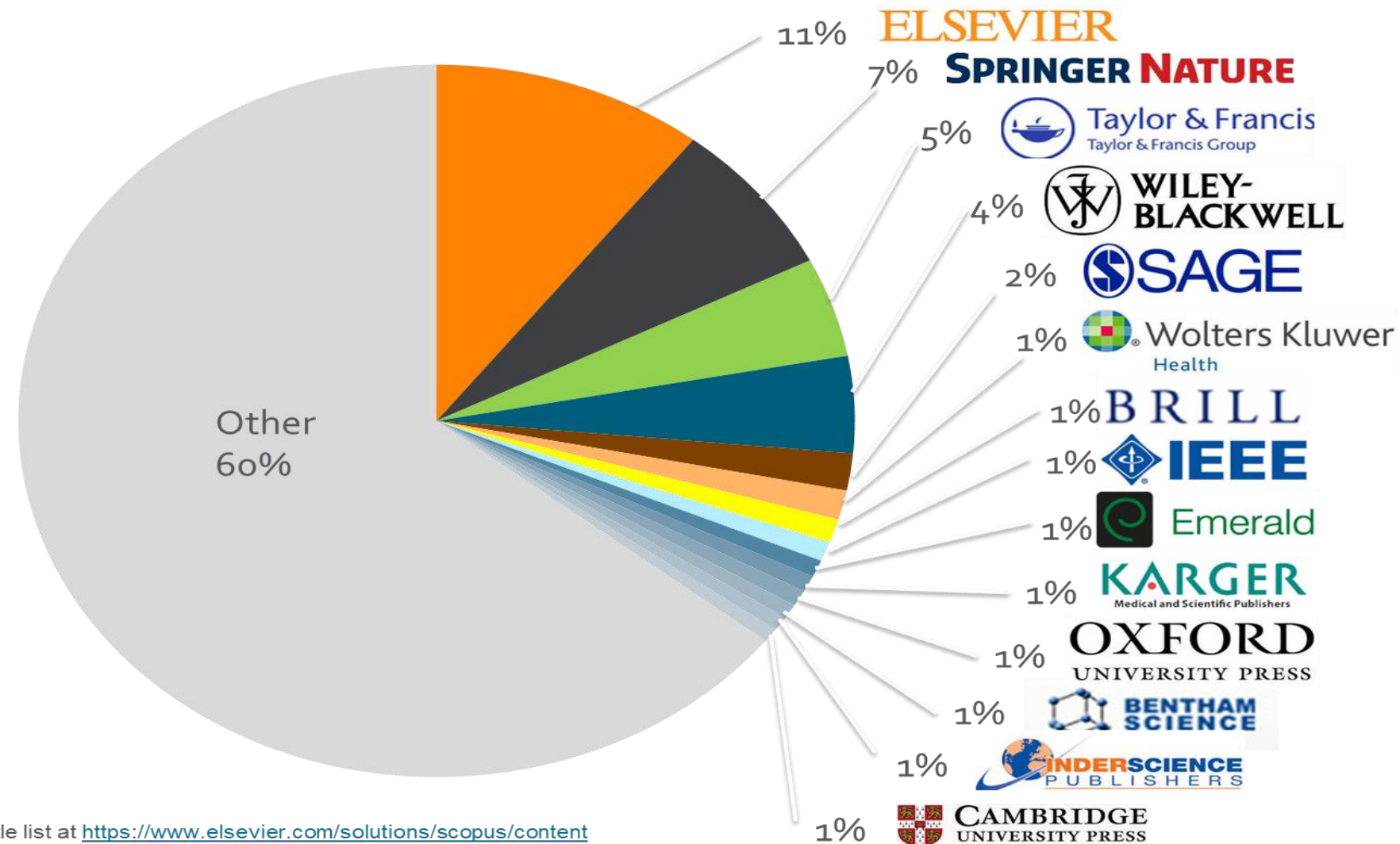
## PATENTS\*

**27M** patents

From 5 major patent offices  
 - WIPO  
 - EPO  
 - USPTO  
 - JPO  
 - UK IPO

# Publishers Coverage - Scopus®

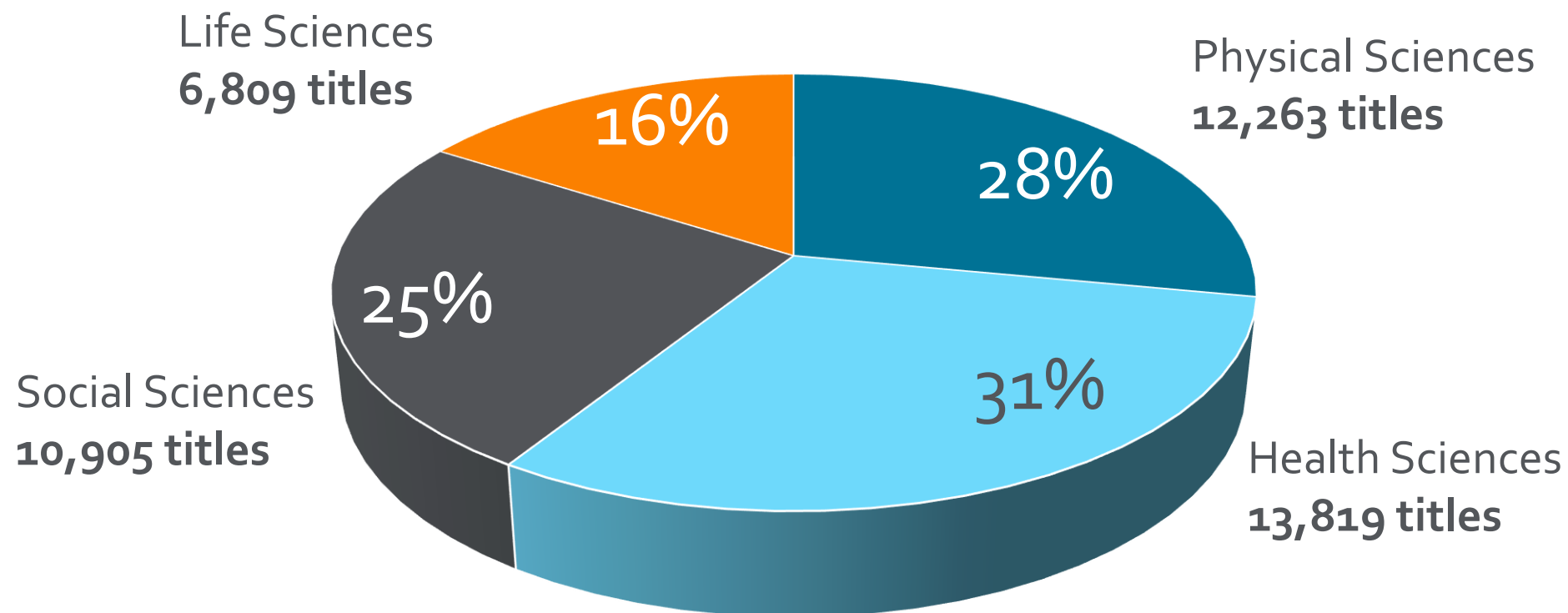
It covers more than 6.000 publishers and all subject areas



Source: May 2016 title list at <https://www.elsevier.com/solutions/scopus/content>

## Subject Coverage - Scopus®

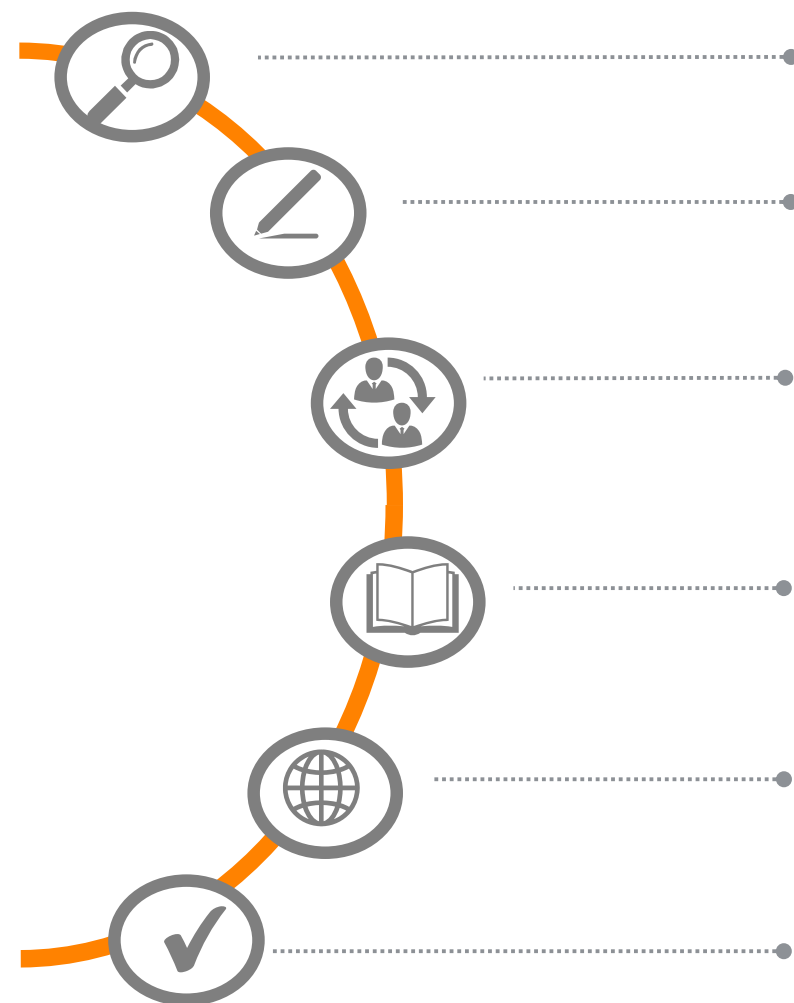
Titles on Scopus are classified under 4 subject clusters and indexed into **27** main subject areas:



Number of journals in Scopus by subject area by Jan, 2018

\* Includes active titles. Titles may fall into more than one subject area

# Why use Scopus®?



**Find out** what already exists in the global world of research output

**Determine** how to differentiate your research topic and find new ideas

Decide what, where and with whom to partner or **collaborate** with

**Identify and analyse** which journals to submit your article; get published

**Track** impact of your research; monitor global research trends

**Manage your career** through citation counts and *h*-index (and other metrics)

Scopus supports the goals of users at both **institutional and individual level**; post-doc researchers, senior researchers, librarians, deans of research and corporate R&D professionals etc

# Abilities of Scopus<sup>®</sup>

## DOCUMENT SEARCH

01

- Find the latest search
- Discover subject areas through different filters such as language, country, access type etc
- Benefit from document analysis tool

## AUTHOR SEARCH

02

- Find +12 million author profile
- Measure the impact of any researcher : Evaluate their documents, subject areas, h-index
- Find possible collaborations
- Find experts in a specific subject
- Benefit from author analysis tool

## AFFILIATION SEARCH

03

- Find +70,000 affiliation
- Measure the impact of any affiliation : Evaluate their performance through its documents, authors, and collaborators
- Find new opportunities as a researcher

## FIND THE RIGHT JOURNAL

04

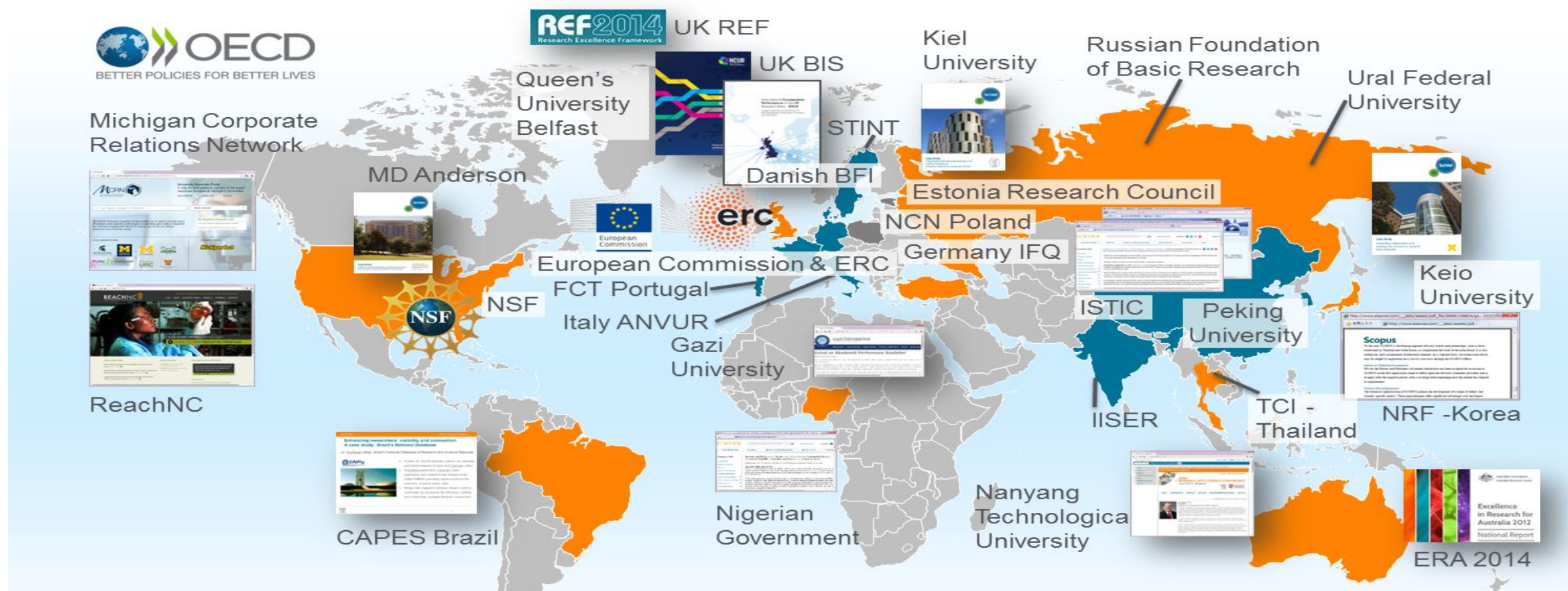
- Compare different journals according to subject area or publisher by different metrics





# Scopus® As a gold standard

Scopus is recognized as the **Gold standard** in **4.500** universities and **150** leading research organizations worldwide. A lot of global key reports also use Scopus data



Rankings:





## Selection Process & Criteria - Scopus®

Scopus content is selected via independent Content Selection & Advisory Board (CSAB)



The CSAB is an independent board of subject experts from all over the world.

Board members are chosen for their expertise in specific subject areas; many have (journal) Editor experience.

The CSAB is selective and strict on quality: in total 5,411 titles reviewed (2011 –2015) of which 2,587 (48%) accepted for Scopus

For more info:

<https://www.elsevier.com/solutions/scopus/content/content-policy-and-selection> or [titlesuggestion@scopus.com](mailto:titlesuggestion@scopus.com)  
[https://www.elsevier.com/\\_data/assets/pdf\\_file/0006/95118/SC\\_FAQ-content-selection-process-22092014.pdf](https://www.elsevier.com/_data/assets/pdf_file/0006/95118/SC_FAQ-content-selection-process-22092014.pdf)

# Selection Process & Criteria - Scopus®

The CSAB is selective and strict on quality: in total 5,411 **titles reviewed** (2011 –2015) of which 2,587 **(48%) accepted** for Scopus

All titles should meet **all minimum** criteria in order to be considered for Scopus review:

Peer-reviewed

English abstracts

Regular publication

Roman script references

Pub. Ethics statement

Journal policy

- Convincing editorial concept/policy
- Type of peer-review
- Diversity geographic distribution of editors
- Diversity geographic distribution of authors

Quality of Content

- Academic contribution to the field
- Clarity of abstracts
- Quality and conformity with stated aims & scope
- Readability of articles

Journal standing

- Citedness of journal articles in Scopus
- Editor standing

Regularity

- No delay in publication schedule

Online Availability

- Content available online
- English-language journal home page
- Quality of home page

Eligible titles are reviewed by the CSAB according to a **combination of 14 quantitative and qualitative selection criteria:**

## Selection Process & Criteria - Scopus®

Transparent, annual re-evaluation process to ensure titles continue to meet high quality standards

Full Scopus Journal base		
Year 1	Analyze full Scopus journal corpus performance based on set metrics & benchmarks	
	Flag underperforming journals & inform journal publishers	
Year 2	Analyze full Scopus journal corpus performance based on set metrics & benchmarks	
	Flag underperforming journals & inform journal publishers	
CSAB review	<b>If a journal underperforms for <u>2 consecutive years</u>, CSAB will re-evaluate the title based on Scopus selection criteria</b>	
	Flagged journals for which concerns are raised, CSAB will re-evaluate the title based on Scopus selection criteria	
CSAB decision	Continue forward flow	or Discontinue forward flow

## Two Golden Rules of Research metrics

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When used correctly, research metrics together with qualitative input give a balanced, multi-dimensional view for decision-making

### Golden rule #1

Always use both qualitative and quantitative input into your decisions

### Golden rule #2

Always use more than one research metric as the quantitative input

“There is no single ‘best’ indicator that could accommodate all facets of the new reality of bibliometrics.”

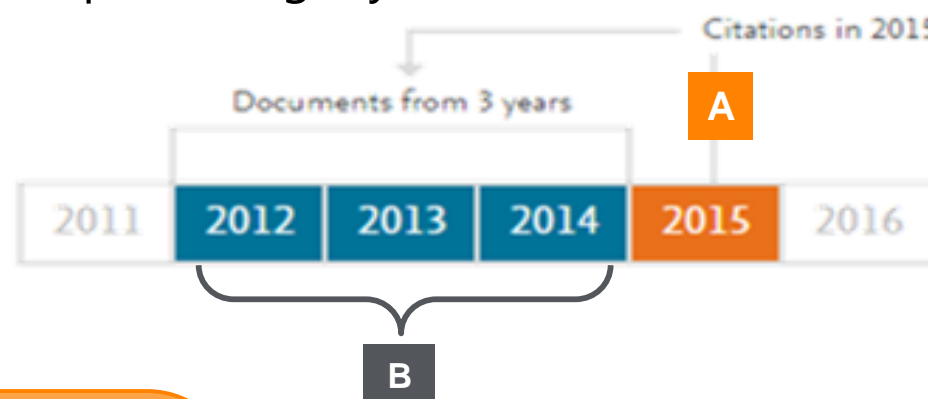
- Wolfgang Glänzel, Head of bibliometrics group  
Professor at KU Leuven, Belgium

# Journal Level Metrics in Scopus®

1

**CiteScore** : CiteScore calculates the average number of citations received in a calendar year by all items published in that journal in the preceding 3 years. Calculation is below:

$$\text{CiteScore 2015 value} = \frac{\text{A}}{\text{B}}$$



## Differences from Impact Factor:

- IF - citation to 2 or 5 years of documents are covered.
- Citations in all type of documents in these years covered, while citable items are only articles and reviews

## Advantages of CiteScore:

- **Comprehensive:** based on Scopus, available for all serial titles
- **Transparent:** Available for free, easy to calculate for yourself. Underlying database is available for you to interrogate
- **Current:** Updated monthly. New titles will have CiteScore a year after indexed



## Journal Level Metrics in Scopus®

2

### SNIP – Source Normalized Impact per paper :

- It is developed by Henk Moed - CWTS (Centre for Science and Technology Studies)- Leiden University
- It Measures the average citation impact of the publications of a journal, correcting for the differences in citation practices between scientific fields and therefore allowing for more accurate between-field comparisons of citation impact.
- Its calculation is based on last 3 years.

***It is field-normalized and allows us the direct comparison of sources in different subject fields!***

3

### SJR – SCImago Journal Rank:

- It is developed by by Felix de Moya, CSIC (Spanish Research Council)
- It is a Prestige metric -advocates not all citations are the same
- Citations are weighted depending on the status of the source they come from.
- **The subject field, quality and reputation of the journal has a direct impact on the value of a citation. This means that a citation from a source with a relatively high SJR is worth more than a citation from a source with a lower SJR**
- Its calculation is based on last 3 years.

## Article Level Metrics in Scopus®

1

**Citation Count:** indicates how many times a paper was cited (according to the data in Scopus)

2

**FWCI – Field Weighted Citation Impact:** indicates how well the paper is doing in comparison to others in the same field. The numerator contains the number of citations and the denominator contains the expected citation count, typical for an average paper in the field. Data is sourced from SciVal.

*Average FWCI is 1, anything above 1 is considered as above average.*

3

**Citation Benchmarking:** compares your paper with others in the same field. Citation data is collected for a period of 18 months and is compared with at least 2500 papers of the same type and from same field. Therefore, it is not available for each article.

4

**Mendeley:** shows how many Mendeley users have this article in their libraries. It is an indicator of readability of the article.

## Plum Metrics

By embedding the alt metrics, Scopus now visualizes scholarly engagement!  
It includes 5 categories of metrics:



### 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 tracks activity from **>50 platforms**, and we continue to invest more:



## PLUMX

### Usage

Clicks: **814**  
Abstract Views: **960**  
HTML Views: **192**  
Link-outs: **131**

### Captures

Exports-Saves: **72**  
Readers: **86**

### Mentions

Blog Mentions: **3**  
Comments: **8**  
Links: **1**

### Social Media

Shares: **23**  
Likes: **12**  
+1s: **9**  
Score: **4**  
Tweets: **114**

### Citations

Clinical Citations: **4**  
Citations: **298**

[see details](#)

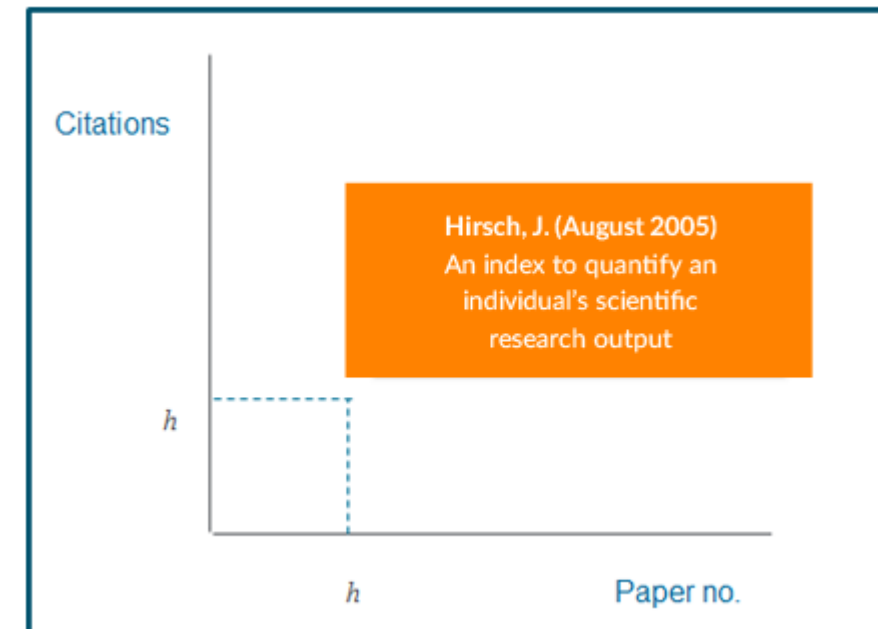


# Author Level Metrics in Scopus®

## H- index :

- It is Originated by Jorge Hirsch in 2005
- A group of papers has index **h** if **h** of the papers have at least **h** citations each, and the other papers have no more than **h** citations each.
- Attempts to measure both the productivity and impact of the published work of a scholar
- Incorporates quantity and quality
- Productivity and age constraints

***If an author's h-index is 10, it means he has 10 articles that each of them have at least 10 citations !***





LIVE DEMO!





# ScienceDirect

## Facts and Figures - ScienceDirect

Elsevier's **leading information solution** for researchers, a **full-text** platform for **scientific, technical and medical** journals & books.



**14 million** people per month use Science Direct, our flagship online platform for academic research



**29 articles a second**

Over 900 million full text articles were downloaded in 2016 alone.

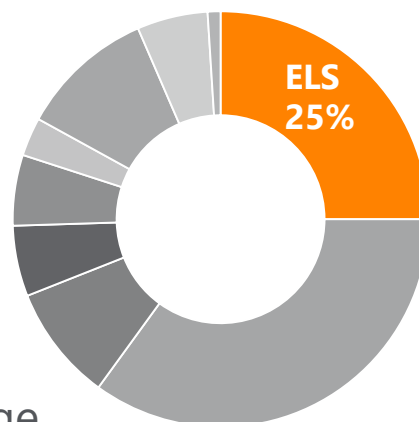


**420.000** pre-reviewed research articles published annually, including *the Lancet* and *the Cell*, and many iconic reference works, including *Grey's Anatomy*.



### #1 Global Provider

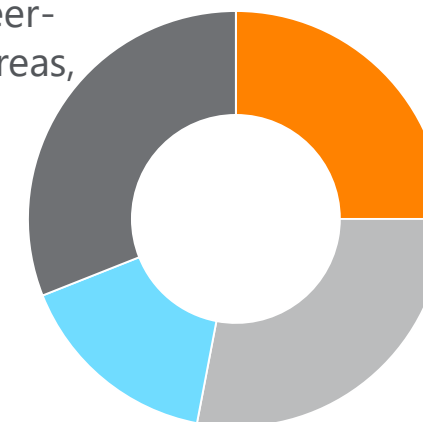
- Publish 25% of world's journal articles
- 2,500 active journals
- 35,000 book titles
- 900 serials
- Over 14 million full-text content pieces with an average of citation share of 25.3%



### Multi-disciplinary Content

A repository of full-texts from peer-reviewed sources cover 4 main areas, with 24 sub-titles:

- Engineering
- Life Sciences
- Health
- Social Sciences



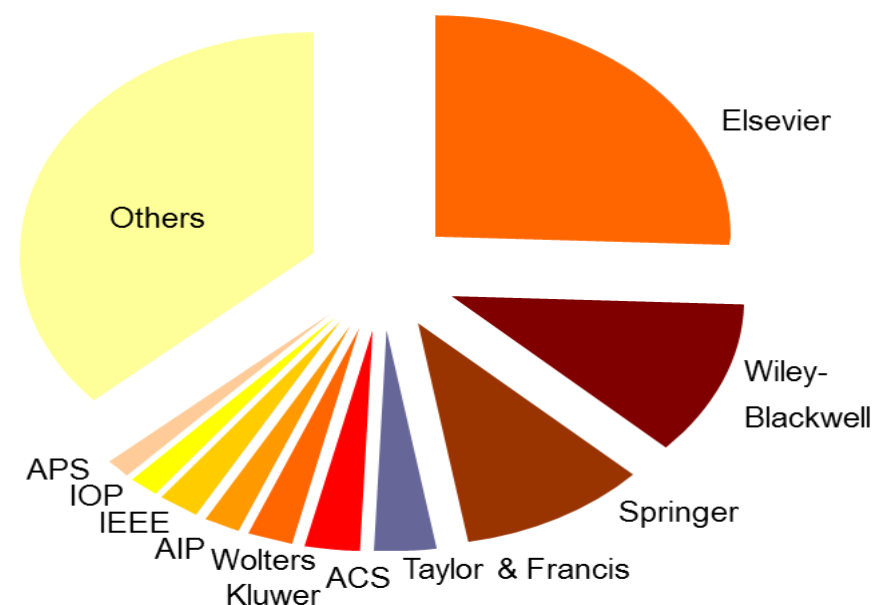
## Facts and Figures - ScienceDirect

**30 million customers** in the academic, government, and corporate sectors

**over 400 years** of publishing experience

We have been publishing **Nobel Prize-winning work** by the most important scientists especially from Medicine, Physics, Chemistry and Economics

Our **~25%** market share is greater than our next three competitors combined



Albert Einstein  
Physics



George F. Smoot  
Physics



John C. Mather  
Physics



Roger D. Kornberg  
Chemistry



Craig C Mello  
Medicine



Alexander Fleming  
Medicine



Niels Bohr  
Physics



Louis Pasteur  
Chemistry



## Why use ScienceDirect ?

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**01**

Discover your research area globally, get full text information from journals and books

**02**

Have proper references and get more citations

**03**

Increase your visibility and collaboration

**04**

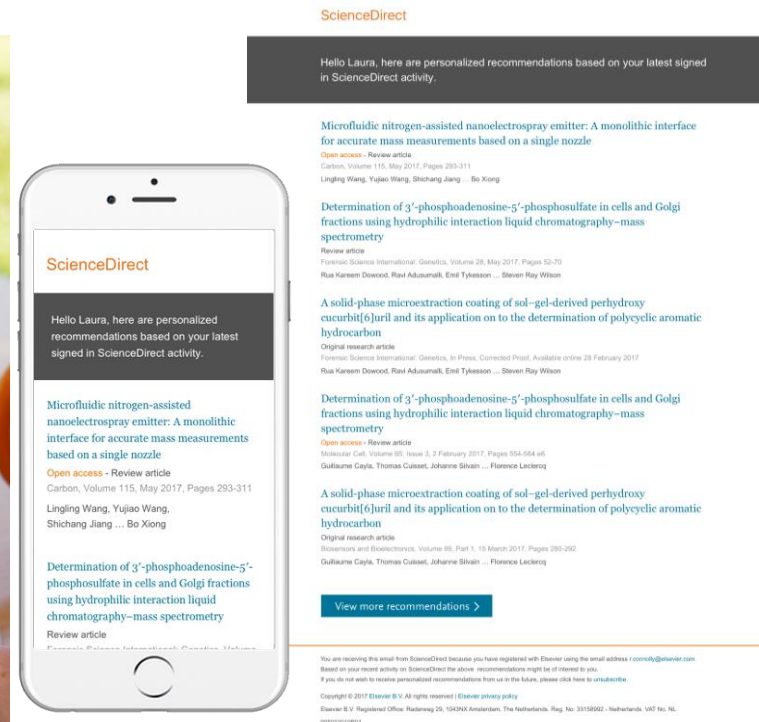
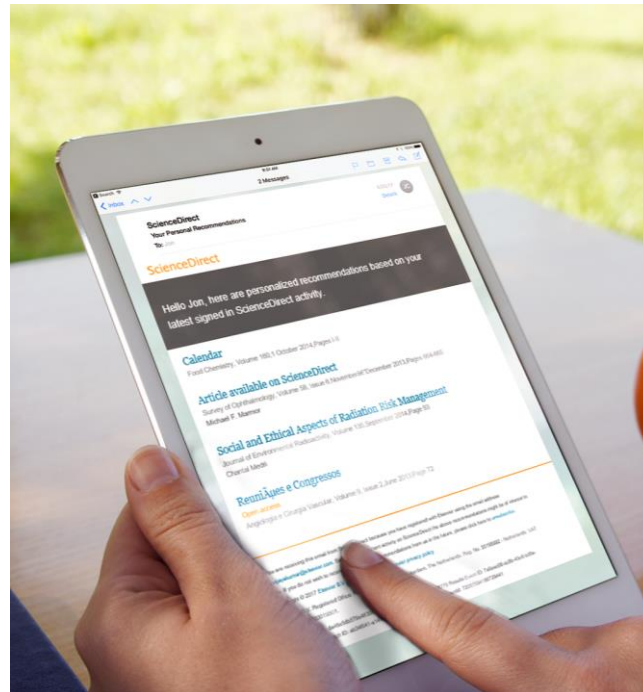
Increase your funding opportunities

## Enhancements- ScienceDirect

To improve your research output and make a greater impact in your field, ScienceDirect empowers you to reach your goals by being **more informed, more effective and more efficient:**

1

### Personalize Science Direct through **alerts** and **personalized recommendations**



*Recommendations are delivered to your Inbox, and accessible anywhere you go!*

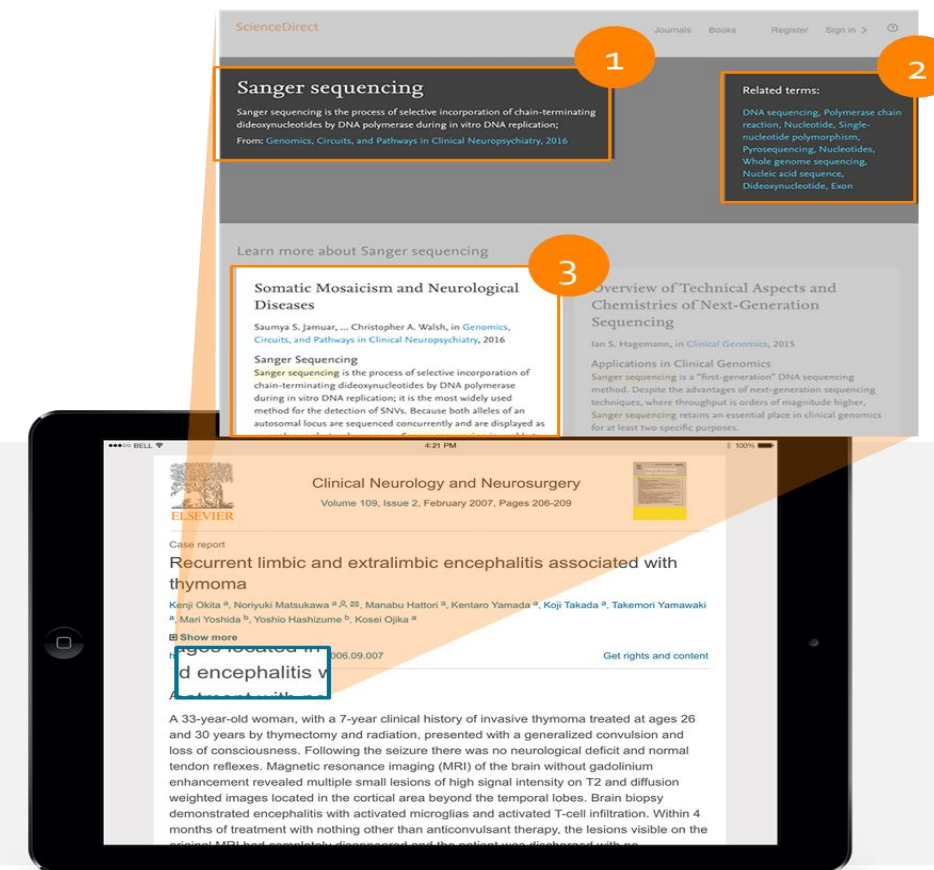


## Enhancements- ScienceDirect

2

Uncover critical and contextual information within your workflow via **Science Direct Topics** → easy tool to learn definitions of new terminology

- 1 Short definition\*
- 2 Related terms
- 3 Excerpts from relevant Book content

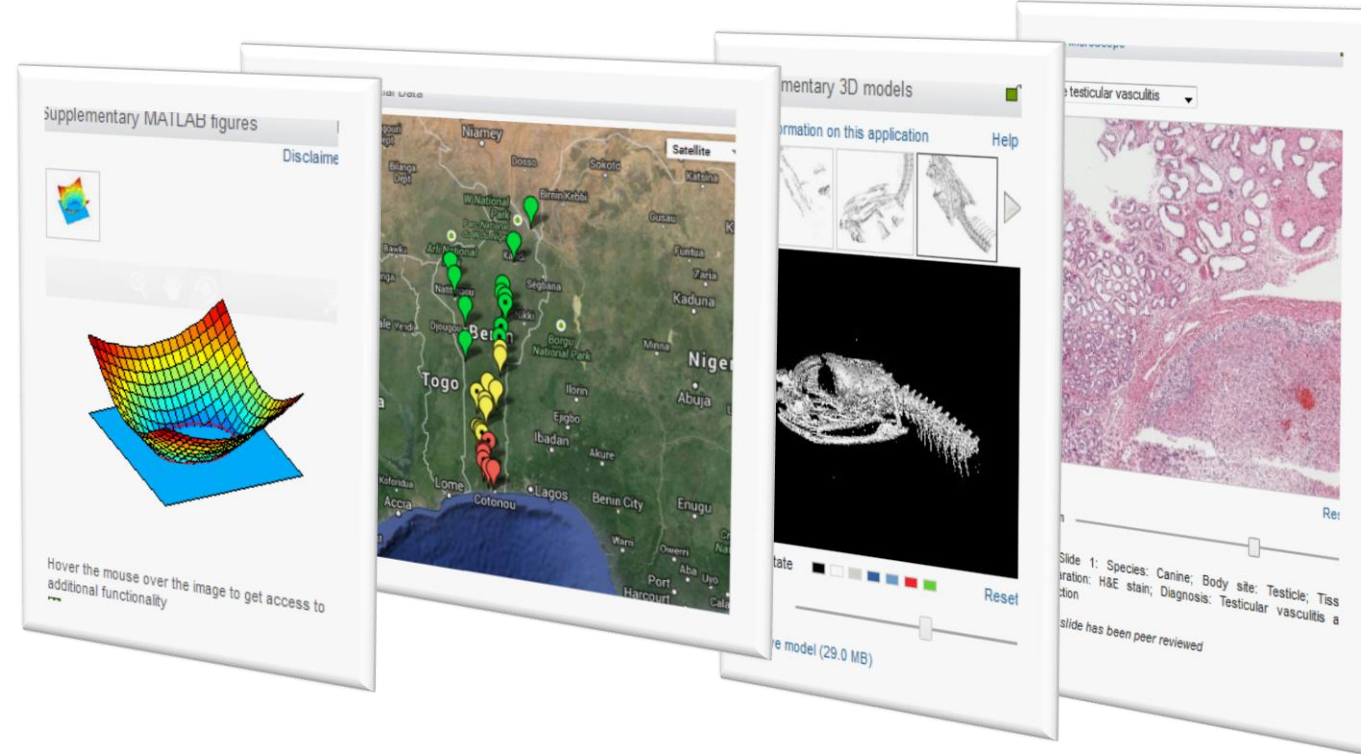




## Enhancements- ScienceDirect

3

3D images, supplementary views, audioslides, interactive plots, virtual microscope views are available in Science Direct



Interactive plots...

Google Maps...

3D models...

Virtual Microscope...

## Enhancements- ScienceDirect

4

Efficiency in research via **exporting the data to Reference Management Systems** as Mendeley, Refworks, Endnote

The screenshot displays the ScienceDirect website interface. At the top, the ScienceDirect logo is on the left, and navigation links for Journals, Books, and a user profile (Ozge Sertdemir) are on the right. A search bar is located below the logo. The main content area shows search results for "science" with 7,067,130 results found. On the left, there are filters for Year (2019 to 2015) and Publication title (The Lancet, International Journal of Rock Mechanics, etc.). The search results list several articles, including "The NIH Science of B...", "Introducing the F...", "Public Health Science", and "The nature of voc...". An "Export" dialog box is open in the center, highlighting the "Direct export" section. This section includes options to "Save to Mendeley" and "Save to RefWorks". Below this, the "Export file" section shows "RIS (for EndNote, Reference Manager, ProCite)" as the selected format, with "BibTeX" and "Text" as alternatives. The "Content" section shows "Citations and abstracts" as the selected option, with "Citations only" as an alternative. An "Export" button is at the bottom of the dialog box. The background shows related books like "Engineering Science", "Groundwater Science", and "Meat Science".

## Enhancements- ScienceDirect

5

### Efficiency in searching in Google Scholar

The screenshot shows a Google Scholar search interface. At the top, the Google logo is on the left, followed by a search bar containing the text 'nebulized spray pyrolysis technique' and a blue search button with a magnifying glass icon. Below the search bar, the word 'Scholar' is displayed in red, followed by the text 'About 4,860 results (0.09 sec)'. On the left side, there is a vertical menu with the following items: 'Articles' (highlighted in red), 'Case law', 'My library', 'Any time', 'Since 2016', 'Since 2015', 'Since 2012', and 'Custom range...'. The main content area displays two search results. The first result is titled '[HTML] Versatility of chemical **spray pyrolysis technique**' by PS Patil, published in Materials Chemistry and physics, 1999 - Elsevier. The abstract snippet reads: '... 1.2.1. Ultrasonic **nebulized** atomization. ... Generally the precursor solutions are vapourized with an ultrasonic **nebulizer** (ultrasonic power of mist generator is about 100 W) which are ... The **spray pyrolysis** of TBT and DBTDA led to the deposition of the (1 1 0) and (2 0 0) oriented ...'. It is cited by 546 and has links for 'Related articles', 'All 2 versions', 'Cite', and 'Save'. The second result is titled '[HTML] Preparation and characterization of MgO thin films by a simple **nebulized spray pyrolysis technique**' by X Fu, G Wu, S Song, Z Song, X Duo, C Lin, published in Applied surface science, 1999 - Elsevier. The abstract snippet reads: 'A simple **nebulized spray pyrolysis** method has been applied to prepare MgO thin films with (200) preferential orientation on (100) Si substrates by using magnesium acetate as starting reactants. The experimental results revealed that the substrates temperature and the ...'. It is cited by 25 and has links for 'Related articles', 'All 4 versions', 'Cite', and 'Save'. On the right side of the screenshot, there is a red rounded rectangle containing two links: '[HTML] sciencedirect.com' and '[HTML] sciencedirect.com'.

Google

nebulized spray pyrolysis technique

Scholar About 4,860 results (0.09 sec)

Articles

Case law

My library

Any time

Since 2016

Since 2015

Since 2012

Custom range...

[HTML] Versatility of chemical **spray pyrolysis technique**  
PS Patil - Materials Chemistry and physics, 1999 - Elsevier  
... 1.2.1. Ultrasonic **nebulized** atomization. ... Generally the precursor solutions are vapourized with an ultrasonic **nebulizer** (ultrasonic power of mist generator is about 100 W) which are ... The **spray pyrolysis** of TBT and DBTDA led to the deposition of the (1 1 0) and (2 0 0) oriented ...  
Cited by 546 Related articles All 2 versions Cite Save

[HTML] Preparation and characterization of MgO thin films by a simple **nebulized spray pyrolysis technique**  
X Fu, G Wu, S Song, Z Song, X Duo, C Lin - Applied surface science, 1999 - Elsevier  
A simple **nebulized spray pyrolysis** method has been applied to prepare MgO thin films with (200) preferential orientation on (100) Si substrates by using magnesium acetate as starting reactants. The experimental results revealed that the substrates temperature and the ...  
Cited by 25 Related articles All 4 versions Cite Save

[HTML] sciencedirect.com

[HTML] sciencedirect.com

# Search in Science Direct

## Search Bar in ScienceDirect

You can search only within Open Access content

You can use simple search bar for fast queries

The screenshot displays the ScienceDirect homepage. At the top left is the ScienceDirect logo. To the right are links for Journals, Books, Register, Sign in, and a help icon. Below the navigation bar is a search bar with the text "Search for peer-reviewed journals, articles, book chapters and open access content." The search bar contains several input fields: Keywords, Author name, Journal/book title, Volume, Issue, and Pages. To the right of these fields is a magnifying glass icon and the text "Advanced search". Below the search bar is a dark blue section with the heading "Discover more with ScienceDirect". This section contains two bullet points: "Receive personalized recommendations based on your recent signed-in activity" and "Create publication and search alerts". Below these is a button that says "Register for personalized features >". At the bottom of the page is a white section with the text "Explore scientific, technical, and medical research on ScienceDirect".

ScienceDirect

Journals Books Register Sign in > ?

Search for peer-reviewed journals, articles, book chapters and open access content.

Keywords Author name Journal/book title Volume Issue Pages Advanced search

### Discover more with ScienceDirect

- Receive personalized recommendations based on your recent signed-in activity
- Create publication and search alerts

[Register for personalized features >](#)

Explore scientific, technical, and medical research on ScienceDirect

## Advance Search on ScienceDirect

Advanced Search provides multiple options for more precise information search

### Advanced Search

All of the fields are optional.  
Find out [more](#) about the new advanced search.

Find articles with these terms

In this journal or book title

Year(s)

Author(s)

Author affiliation

Title, abstract or keywords

✓ Show more fields

#### Article types

☐ Review articles

☐ Correspondence

☐ Patent reports

☐ Research articles

☐ Data articles

☐ Practice guidelines

☐ Encyclopedia

☐ Discussion

☐ Product reviews

☐ Book chapters

☐ Editorials

☐ Replication studies

☐ Conference abstracts

☐ Errata

☐ Short communications

☐ Book reviews

☐ Examinations

☐ Software publications

☐ Case reports

☐ Mini reviews

☐ Video articles

Type your keyword

You can type several different information to find the precise information

Show more fields, will allow you to search by **Volume, Issue, DOI or references**

You can select article types

## Results page in ScienceDirect

You can make multiple downloads or export it to several reference managers

View all suggested publications related your search term

Sort your results

Set search alert to get email notifications when similar content is published

Use filters to narrow your results

Suggested publications:

2,248,368 results

[Set search alert](#)

Refine by:

Years

- ☐ 2019 (779)
- ☐ 2018 (82,886)
- ☐ 2017 (91,113)

[Show more](#)

Article type

- ☐ Review articles (69,133)
- ☐ Research articles (1,561,398)
- ☐ Encyclopedia (20,131)
- ☐ Book chapters (97,397)

[Show more](#)

Publication title

- ☐ Tetrahedron Letters (69,173)
- ☐ Journal of Organometallic Chemistry (41,950)
- ☐ Tetrahedron (38,524)

[Show more](#)

Access type

- ☐ Open access (90,238)
- ☐ Open archive (51,064)

[Download selected articles](#) [Export](#)

[View all](#)

sorted by relevance | date

Research article • Full text access

Comments on the teaching of chemistry, doing chemistry demonstrations, and a passion for chemical thermodynamics

The Journal of Chemical Thermodynamics, Volume 123, August 2018, Pages 74-78

Rubin Battino

[Download PDF \(285 KB\)](#) [Abstract](#) [Export](#)

Review article • Open access

Evolution of green chemistry and its multidimensional impacts: A review

Saudi Pharmaceutical Journal, In press, corrected proof, Available online 20 July 2018

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Articles

## A comparative risk assessment of burden of disease and injury attributable to 67 risk factors and risk factor clusters in 21 regions, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010

Dr Stephen S Lim PhD <sup>a, †</sup>, Prof Theo Vos PhD <sup>a</sup>, Abraham D Flaxman PhD <sup>a</sup>, Goodarz Danaei MD <sup>i</sup>, Prof Kenji Shibuya MD <sup>j</sup>, Heather Adair-Rohani MPH <sup>a, \*</sup>, Mohammad A AlMazroa MD <sup>a, \*</sup>, Markus Amann PhD <sup>a, \*</sup>, Prof H Ross Anderson MD <sup>k, \*</sup>, Kathryn G Andrews MPH <sup>a, \*</sup>, Martin Aryee PhD <sup>l, \*</sup>, Charles Atkinson BS <sup>a, \*</sup>, Loraine J Bacchus PhD <sup>a, \*</sup>, Adil N Bahalim MEng <sup>u, \*</sup>, Prof Kalpana Balakrishnan PhD <sup>x, \*</sup>, Prof John Balmes MD <sup>a, \*</sup>, Suzanne Barker-Collo PhD <sup>y, \*</sup>, Amanda Baxter MPH <sup>a, \*</sup>, ... Prof Majid Ezzati PhD <sup>ac, †</sup>

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## Articles

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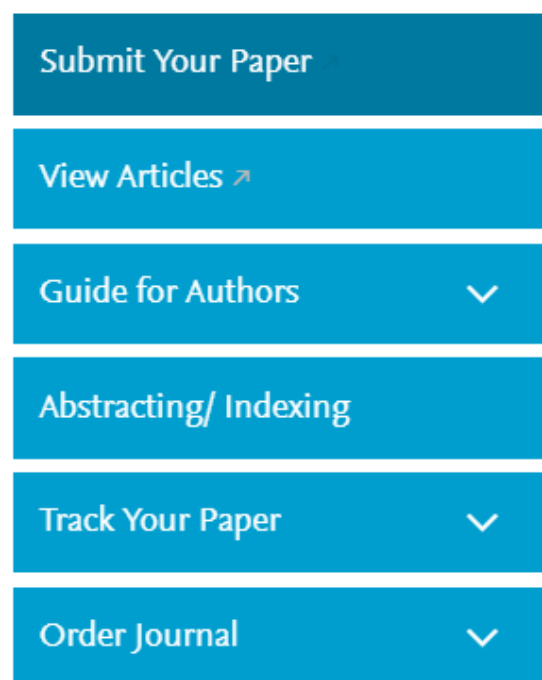
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