Elsevier Research Intelligence

掌握學術研究脈動、學術發表與合作探尋

Elsevier 客戶經理

吳萱雯 (Vickie Wu)

2016 電子資訊資源與學術聯盟國際研討會

Empowering Knowledge
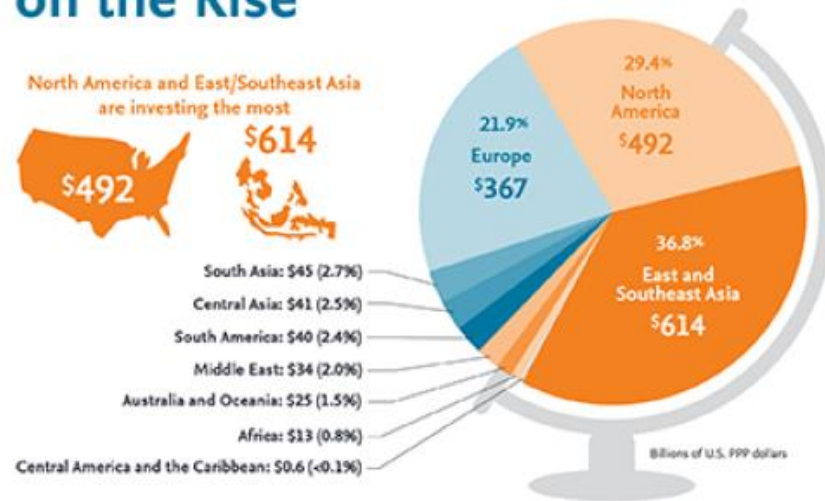
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A day in the life of a researcher
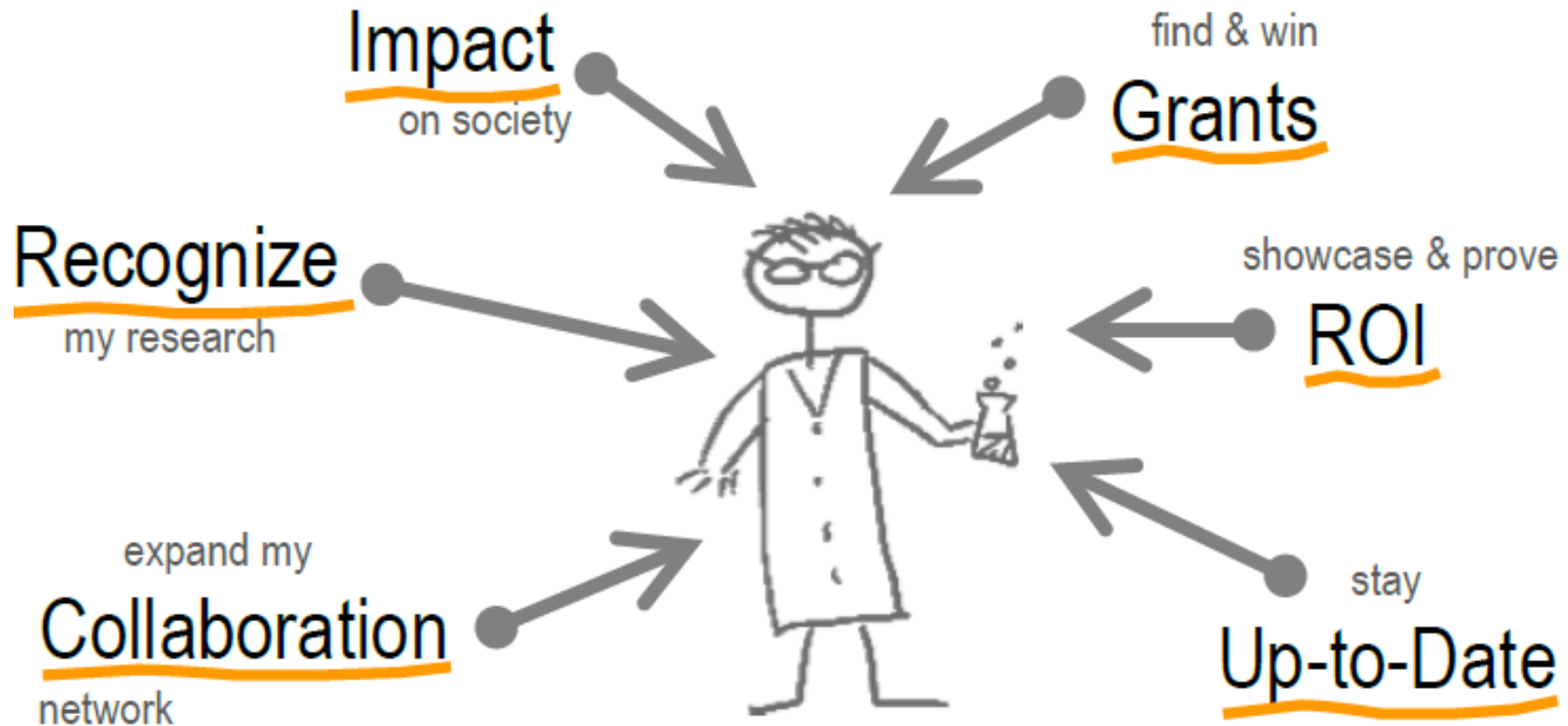
Elsevier Research Intelligence

Elsevier's Scopus Supports the NSF SEI 2016

美國國家科學基金會(NSF):國家科學指標報告
分析世界科技發展趨勢及美國科技發展現況

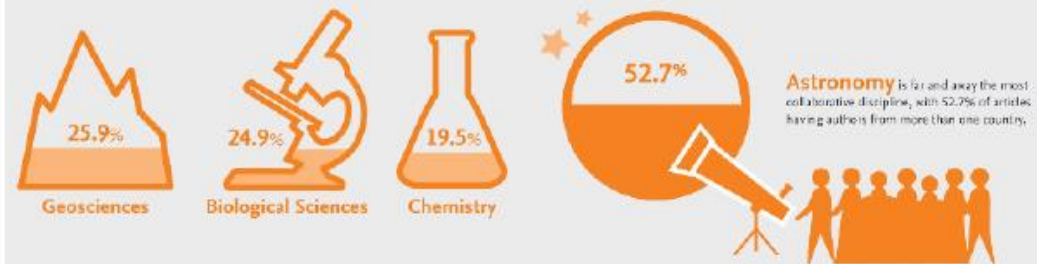

Global Investment in R&D on the Rise

North America and East/Southeast Asia are investing the most

$614

$492

29.4%
North America
$492

21.9%
Europe
$367

36.8%
East and Southeast Asia
$614

South Asia: $45 (2.7%)
Central Asia: $41 (2.5%)
South America: $40 (2.4%)
Middle East: $34 (2.0%)
Australia and Oceania: $25 (1.5%)
Africa: $13 (0.8%)
Central America and the Caribbean: $0.6 (<0.1%)

Billions of U.S. PPP dollars

Research without Borders

The highest levels of international collaboration takes place in the Geosciences, Biological Sciences, and Chemistry.

25.9%
Geosciences

24.9%
Biological Sciences

19.5%
Chemistry

52.7%

Astronomy is far and away the most collaborative discipline, with 52.7% of articles having authors from more than one country.

○ "The use of the Scopus database represents a substantial increase in the global coverage of bibliometric data compared to prior years. The change...allows NSF to present data on the most highly cited S&E publications as well as on a broader set of publications that provide insight into trends in emerging and developing countries."

Science and Engineering Indicators 2016

Source: National Science Board. 2016. Science and Engineering Indicators 2016. Arlington, VA: National Science Foundation (NSB-2016-1)

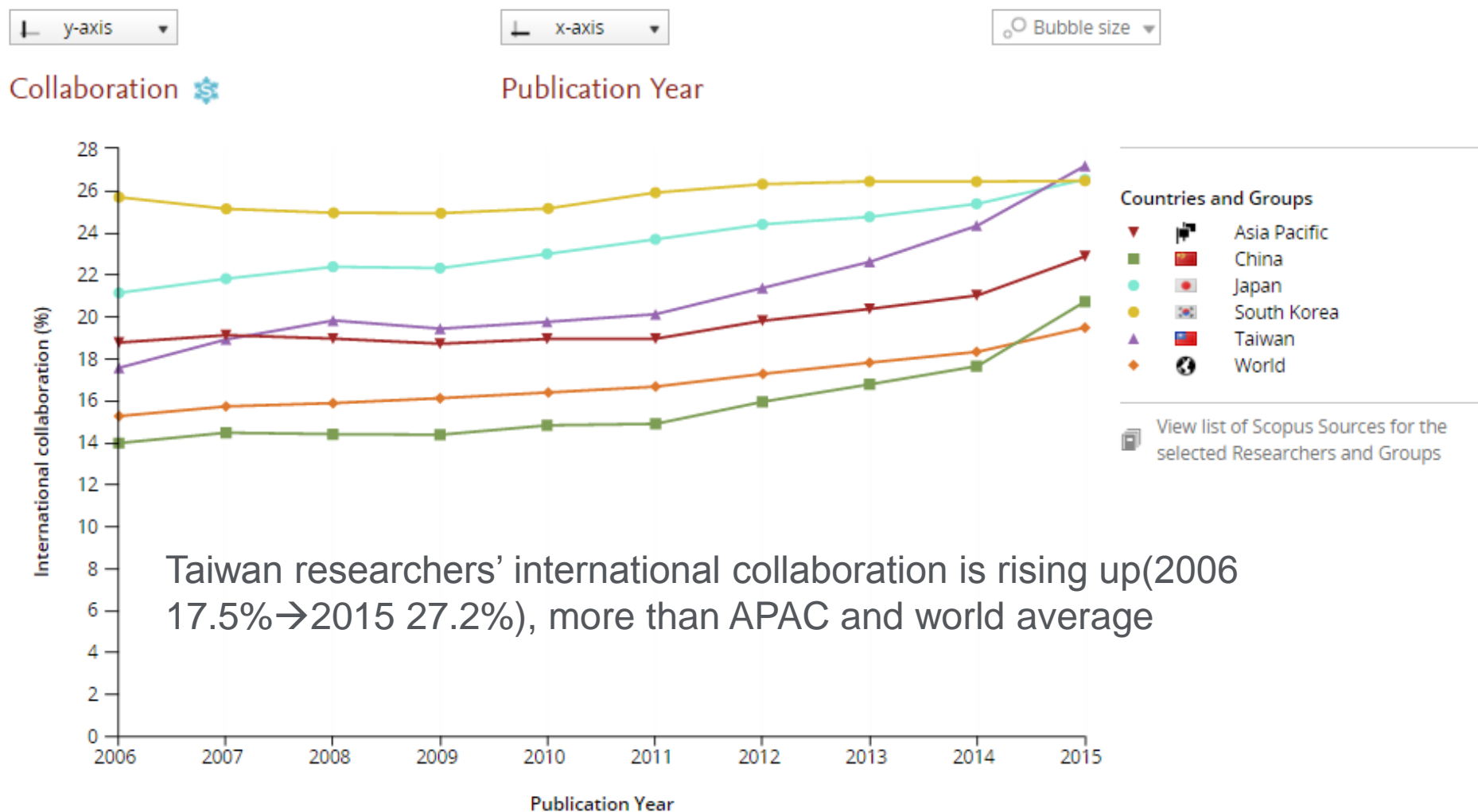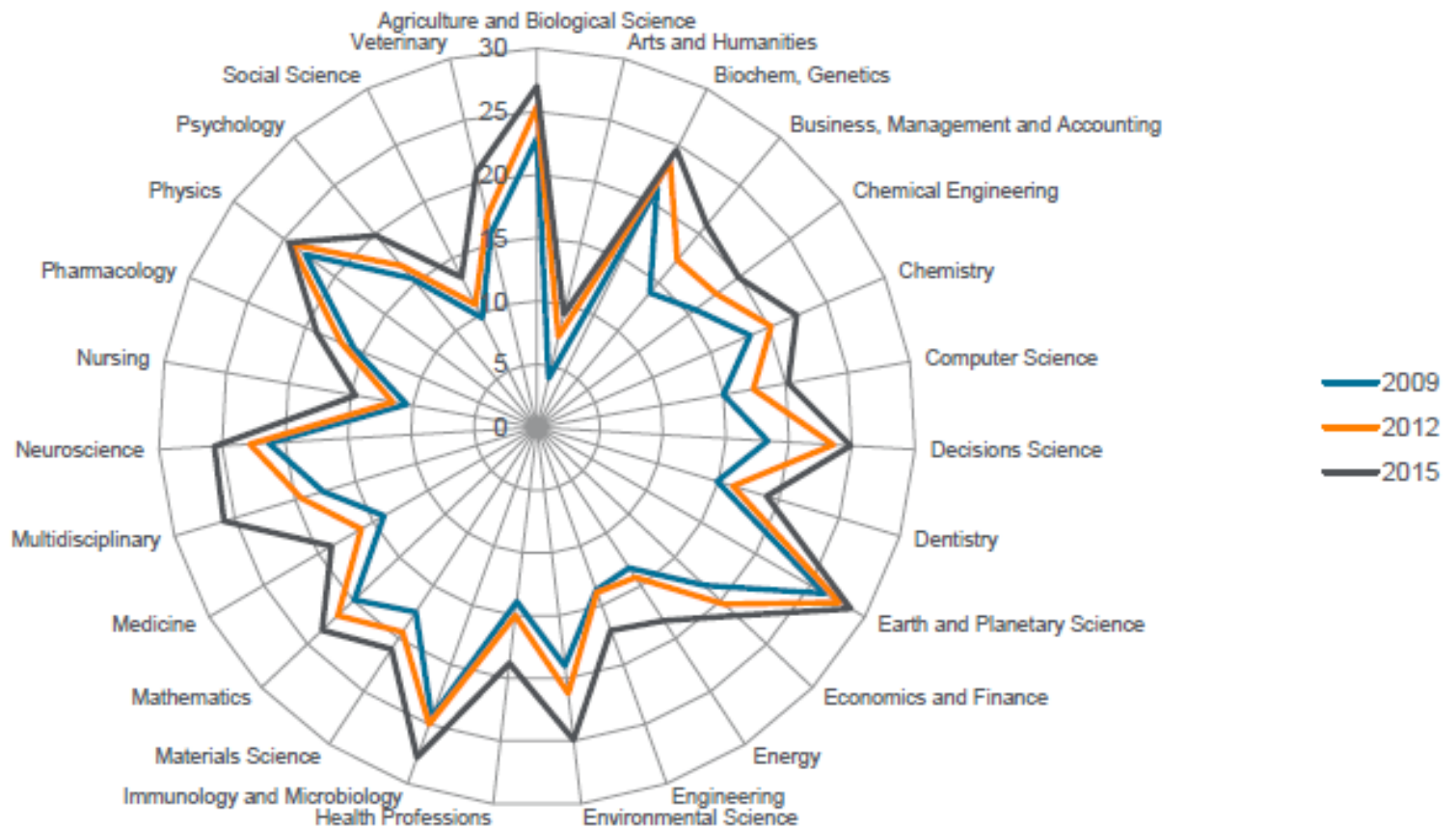https://www.elsevier.com/research-intelligence/promo/nsf-sei

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International collaboration Trend

Taiwan researchers' international collaboration is rising up(2006 17.5%→2015 27.2%), more than APAC and world average

Source: SciVal 2016-2015 data extracted on Oct 24th, 2016

International collaboration by subject area

Gender

Distribution of Female Researchers

The number and proportion of female researchers in Germany is increasing.

28.2% 2010

30.9% 2014

In general, Agriculture, Medicine, and Health related subject areas have the highest share of female researchers.

Subject areas in the Natural Sciences and Engineering have the lowest shares.

International Collaboration

For Germany, female-only publications are the most internationally collaborative. Mixed-gender publications are more interdisciplinary but less internationally collaborative than mono-gender publications.

53.9%

Female only publications internationally collaborative

47.7%

Male only publications internationally collaborative

Research Productivity

The differences between publication productivity and citation impact between female and male researchers in Germany are smaller for more senior researchers.

3.4%

17.6%

9.9%

Publications per year

Junior   Mid-career   Senior
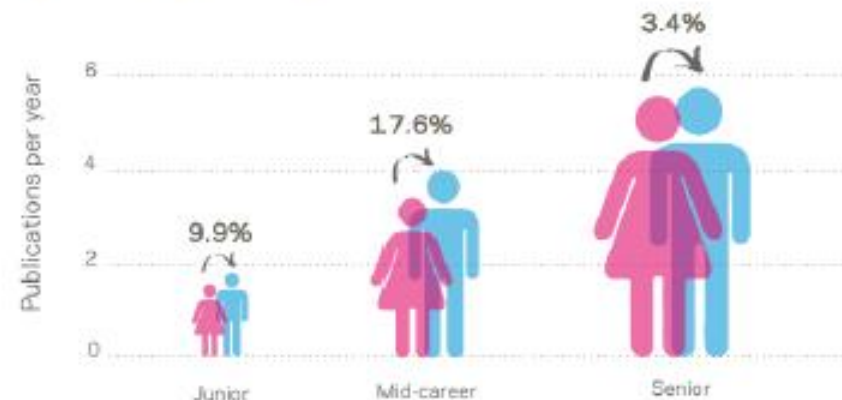
A metric or metrics measuring Female Research contribution to the university's research performance?

MAPPING GENDER in the German Research Arena

Mapping Gender in the German Research Arena

As a researcher…research workflow

Input Metrics: Enabling Research	Process Metrics: Doing Research	Output and Outcome Metrics: Sharing Research

Input Metrics: Enabling Research
- Recruit and evaluate researchers
- Secure and manage funding
- Establish partnerships

Process Metrics: Doing Research
- Search, discover, read, review, experiment, analyze

Output and Outcome Metrics: Sharing Research
- Manage Data
- Publish & Disseminate
- Partner with businesses
- Esteem (authority & reputation amongst peers)
- Impact (benefit to society)

Societal-economic impact

Get published | **Get viewed** | **Get cited**

贊助機會
合著對象

掌握經典文章
研究趨勢

選擇適當投稿期刊
多元評估指標

- 作者檔案(author profile)
  - 了解自己研究產出
- 增加能見度及影響力
  - ORCID
  - 網路社群(altmetrics)

Scopus

Scopus includes content from more than 5,000 publishers and 105 different countries

65M records from **22K** serials, **96K** conferences and **134K** books

- Updated daily
- More accurate and complete citation data pre-1996
- 40 different languages covered
- 3,487 Active Gold Open Access journals indexed

Physical Sciences 11,865	JOURNALS	CONFERENCES	BOOKS
Health Sciences 12,992	**22,411** peer-reviewed journals **322** trade journals	**96.4K** conference events **7.7M** conference papers	**539** book series **34K** Volumes / **1.3M** items **134,082** stand-alone books **>1.1M** items
Social Sciences 10,158			
Life Sciences 6,394	Full metadata, abstracts and cited references (ref's post-1995 only)	Mainly Engineering and Computer Sciences	Focus on Social Sciences and A&H

Coverage of high quality journals via selection by the 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.

As a primary publisher and information aggregator, Elsevier understands the needs of Authors, Editors and Publishers and provides resources to support the community. Available resources to help journals with successful title review process:

publication ethics resources | FAQs | advisory documents | reviewer comments | editor and publishing services
https://www.elsevier.com/solutions/scopus/content/content-policy-and-selection or titlesuggestion@scopus.com

Adding cited reference to pre-1996 items in Scopus

Coverage years
- Pre-1996, going back to 1970

Number of articles
- Around 6M+ articles will be re-processed to include cited references. In addition around 4M pre-1996 articles will be backfilled

Scope
- Archives from major publishers with available digital archives
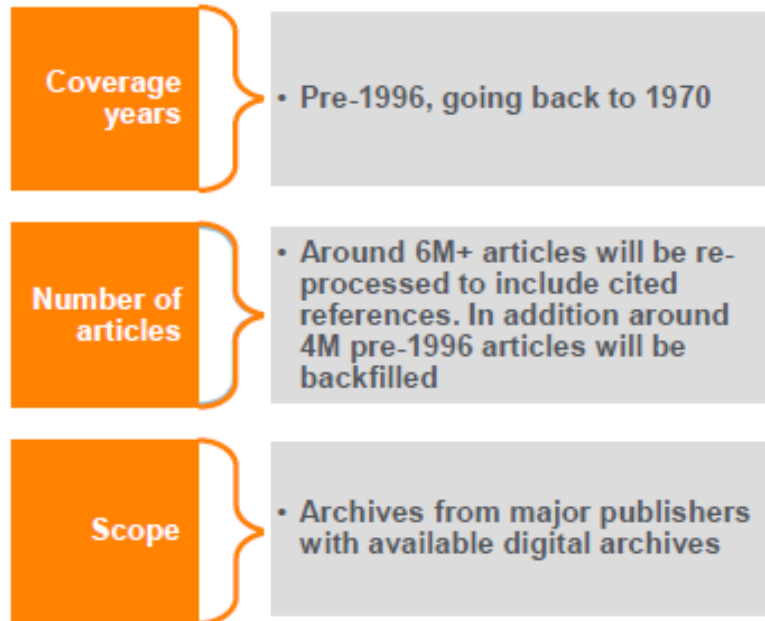
Already >9M pre-1996 documents loaded in Scopus leading to additional 144M cited references

9,023,538 document results

Impact this project has on Scopus and on you:
- 62 Full publisher archives were/are processed leading to >9M new/updated articles.
- Author profiles and accompanying *h*-indexes are more complete and at par or above the competition.
- >40% Of all pre-1996 content in Scopus has been updated or added via this initiative.

H-index of researchers who started publishing before 1996 is increasing

Scopus

Jean Pierre Sauvage (Nobel prize in Chemistry, 2016)

Universite de Strasbourg, Institut de Science et d'Ingénierie Supramoléculaires

(ISIS), Strasbourg, France

Author ID: 35515477700

This author's h-index is 66
The h-index is based upon the number of documents and number of citations.
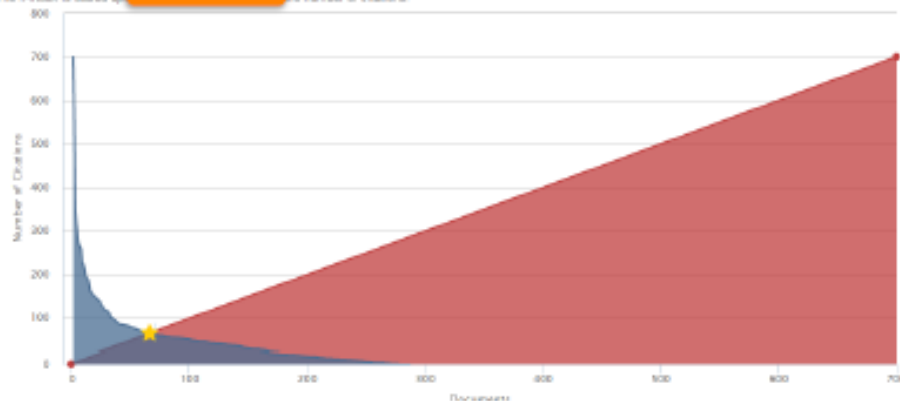
Documents published between: 1996 - 2016
Number of publications: 292
Number of citations: 15,346
h-index: 66

This author's h-index is 83
The h-index is based upon the number of documents and number of citations.

Documents published between: 1971 - 2016
Number of publications: 418
Number of citations: 26,767
h-index: 83

Scopus books to be included in THE World Ranking

Non-serial books in Scopus

More than 134K books are present in Scopus today. The main area of focus is non-serial books in Humanities and Social Sciences. This, next to the 34K book volumes already online, yield over 1.1M items in Scopus.com.

1,110,474 document results

Search within results... 🔍

Document Type
- ○ Book Chapter (907,024)
- ○ Book (134,082)

THE WORLD UNIVERSITY RANKINGS
TIMES HIGHER EDUCATION

Books to be included in World University Rankings analysis for first time

Arts and humanities research will be better represented in the 2016-17 global league table

'The addition of books ensures that the rankings go even further in capturing research excellence in the arts, humanities and social sciences', per THE rankings editor Phil Baty.

Average Citations per Book:

Total 2.03, Physical 4.43, Life 4.08, Health 2.60, Social 1.32

Top cited subjects:

- 1180 books 6% Life Sciences
- 1596 books 9% Health Sciences
- 3019 books 17% Physical Sciences
- 12179 books 68% Social Sciences

■ Social Sciences ■ Physical Sciences ■ Health Sciences ■ Life Sciences

More info: https://www.timeshighereducation.com/news/books-be-included-world-university-rankings-analysis-first-time
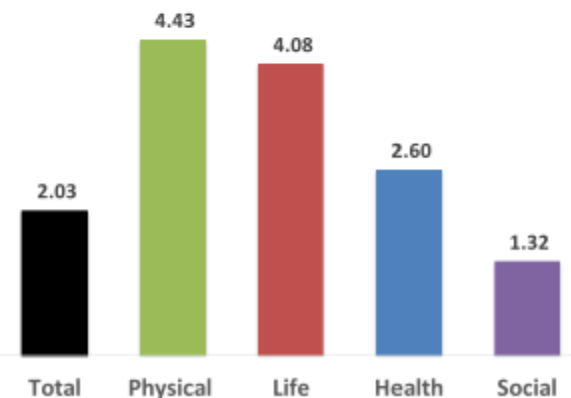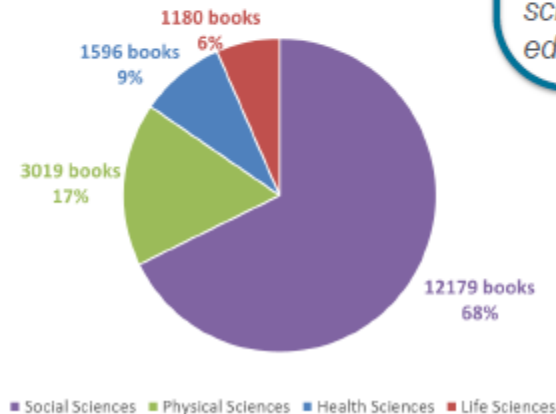
Scopus author profile and ORCID

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Empowering Knowledge

How Scopus author Profiles are used

Review and promote your own research performance

Assess how your peers are performing

Evaluate your existing or potential co-authors: with whom should I collaborate

For Research/Discovery (qualitative) :

• I search for a paper and then use author names to look for more content so I can learn more.

• I look for an author so that I can see their work or collaborate with them.

For Metrics (quantitative) :

• I want to know how many papers a particular author puts out so I can measure them (or myself!).

Find out more about the research and performance of other authors in your field

Scopus Author Profile

Scopus to ORCID

Scopus' contribution to ORCID

Scopus and ORCID	
Unique DOIs in ORCID	5,951,458
Unique Scopus docs submitted to ORCID	4,673,532

195k users have exported their Scopus Author IDs to their ORCID Profiles

Research Impact –

Appropriate use of metrics by the basket of metrics

Empowering Knowledge

Two Golden Rules of Research metrics

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

Golden rule #1

Always use both <u>qualitative and quantitative input</u> into your decisions

Golden rule #2

Always use <u>more than one research metric</u> as the quantitative input

Our aim is to provide a basket of metrics that facilitates appropriate use of research metrics in all dimensions
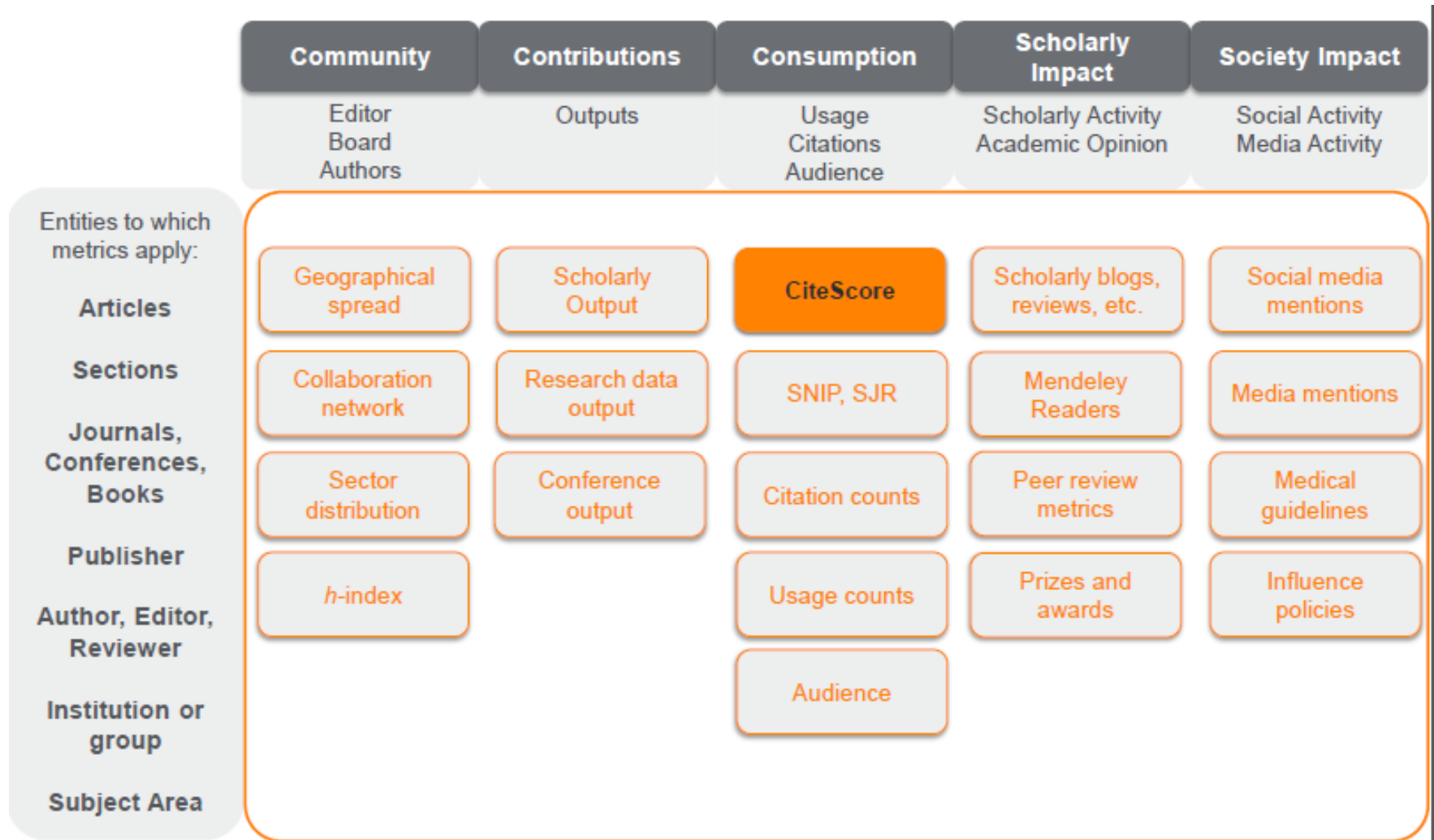
Multiple types of article-level metrics provide a more complete view of the performance of an article

Elsevier Research Intelligence

Thank you