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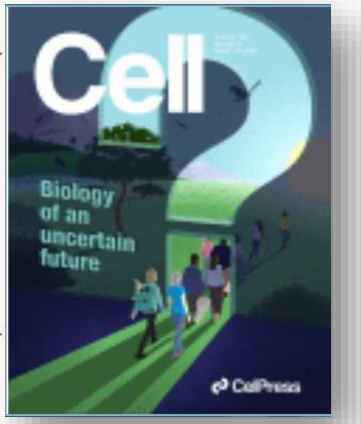
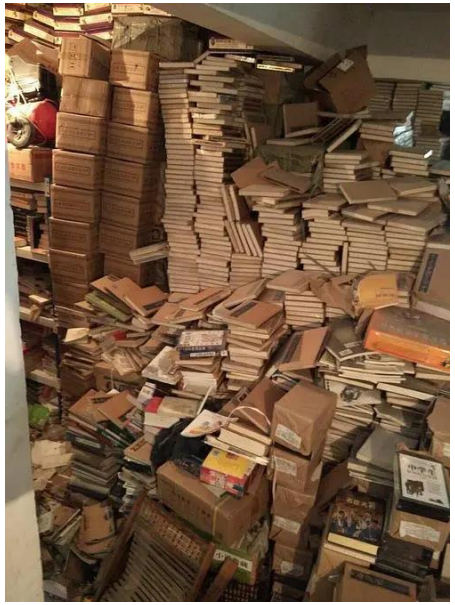



# Main aim

- I don't know where to find literature
- I don't know what worth to read, too many articles
- I don't know how to read them effectively and summarize what I've read
- How to extract ideas for my study

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Measurement: Journal of the International Measurement Confederation
Volume 168, 15 January 2021, Article number 108335

## SARS-CoV, MERS-CoV and SARS-CoV-2: A Diagnostic Challenge (Article)

Ezhilan, M.[a], Suresh, I.[a], Nesakumar, N.[b]

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Abstract

View

The highly pathogenic MERS-CoV, SARS-CoV and SARS-CoV-2 cause acute respiratory syndrome and are often fatal. These new vi
problems to global health in general and primarily to infection control and public health services. Accurate and selective assessme
SARS-CoV and SARS-CoV-2 would assist in the effective diagnosis of infected individual, offer clinical guidance and aid in assessin
outcomes. In this mini-review, we review the literature on various aspects, including the history and diversity of SARS-CoV-2, SARS
CoV, their detection methods in effective clinical diagnosis, clinical assessment of COVID-19, safety guidelines recommended by W
Organization and legal regulations. This review article also deals with existing challenges and difficulties in the clinical diagnosis
Developing alternative diagnostic platforms by spotting the shortcomings of the existing point-of-care diagnostic devices would
preventing future outbreaks. 

Archives of Biochemistry and Biophysics 481 (2009) 169–176

Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/yabbi

## Comparison of NMR structural and dynamics features of the urea and guanidine-denatured states of GED

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ABSTRACT

Denatured states of proteins, the starting points as well as the intermediates of folding *in vivo*, play important roles in biological function. In this context, we describe here urea unfolding and characterization of the denatured state of GTPase effector domain (GED) of dynamin created by 9.7 M urea. These are compared with similar data for guanidine induced denaturation reported earlier. The unfolding characteristics in the two cases, as measured by the optical probes, are significantly different, urea unfolding proceeding via an intermediate. The structural and motional characteristics, determined by NMR, of the two denatured states are also strikingly different. The urea-denatured state shows a combination of α- and β-preferences in contrast to the entirely β-preferences in the guanidine-denatured state. Higher $^{15}N$ transverse relaxation rates suggest higher folding propensities in the urea-denatured state. The implications of these to GED folding are discussed.



Denatured states of proteins are beginning to be recognized as important entities in the biological world—a denatured state of a protein is defined as the lowest energy 'non-native' state under a given set of conditions [1]. Inside a living cell, the environmental conditions like local intracellular ion concentrations, interaction with various ligands etc. can vary significantly from organelle to organelle [2], and even within the same organelle there can be variations due to signaling processes and interactions with different molecules. All these processes tightly regulate the translational and post-translational processes which decide the fate of the newly synthesized polypeptide chain. Thus a particular protein may see different environments which lead to different denatured states during the course of its function. Some of the denatured states may lead to soluble aggregates, which occasionally lead to diseases [3].

When a polypeptide chain begins to fold starting from a denatured ensemble, each molecule in the ensemble can, in-principle, fold along a different path. In this scenario, the starting state in terms of the conformational preferences across the polypeptide chain will have a significant influence on the path the molecule adopts; different denaturing environments inside a cell can create different initial states for the protein to fold from. If the chain already has some structure, that may form the nucleus for additional structure to build upon, and this will reduce the search options for the polypeptide chain in the multi-dimensional conformational

cture may have to be removed for a new structure to get formed for the protein to move towards the native state. Thus the number of folding paths for a given protein would be dictated by the number and nature of structural preferences across the length of the chain.

In view of all these, it is important to understand the characteristics of the various denatured states, with regard to their topologies, heterogeneities and motional characteristics, their modulations due to changes in environmental conditions, etc. at atomic level detail. *In vitro*, different denatured states can be created by use of different denaturants, such as, Gdn-HCl, urea, SDS, extreme pH conditions, etc. Although these may not exactly represent the denatured states, *in vivo*, they help sample the ensemble quite widely and thus allow investigation of the folding processes, in general.

In this background, we present here a comparative study of the structural and dynamics characteristics of urea-denatured and Gdn-HCl-denatured states of the GTPase effector domain (GED)[3] of dynamin, a crucial protein in clathrin mediated endocytosis. GED plays important roles both in dynamin assembly around the neck of the clathrin coated vesicles, and assists the N-terminal GTPase domain in GTP hydrolysis required for dynamin function [4,5]. The recombinant form of GED has been shown to self-assemble and form large megadalton-sized oligomers *in vitro* [6,7] even at micro-molar concentrations. We first describe the global characteristics of urea-mediated unfolding of GED, as studied by optical

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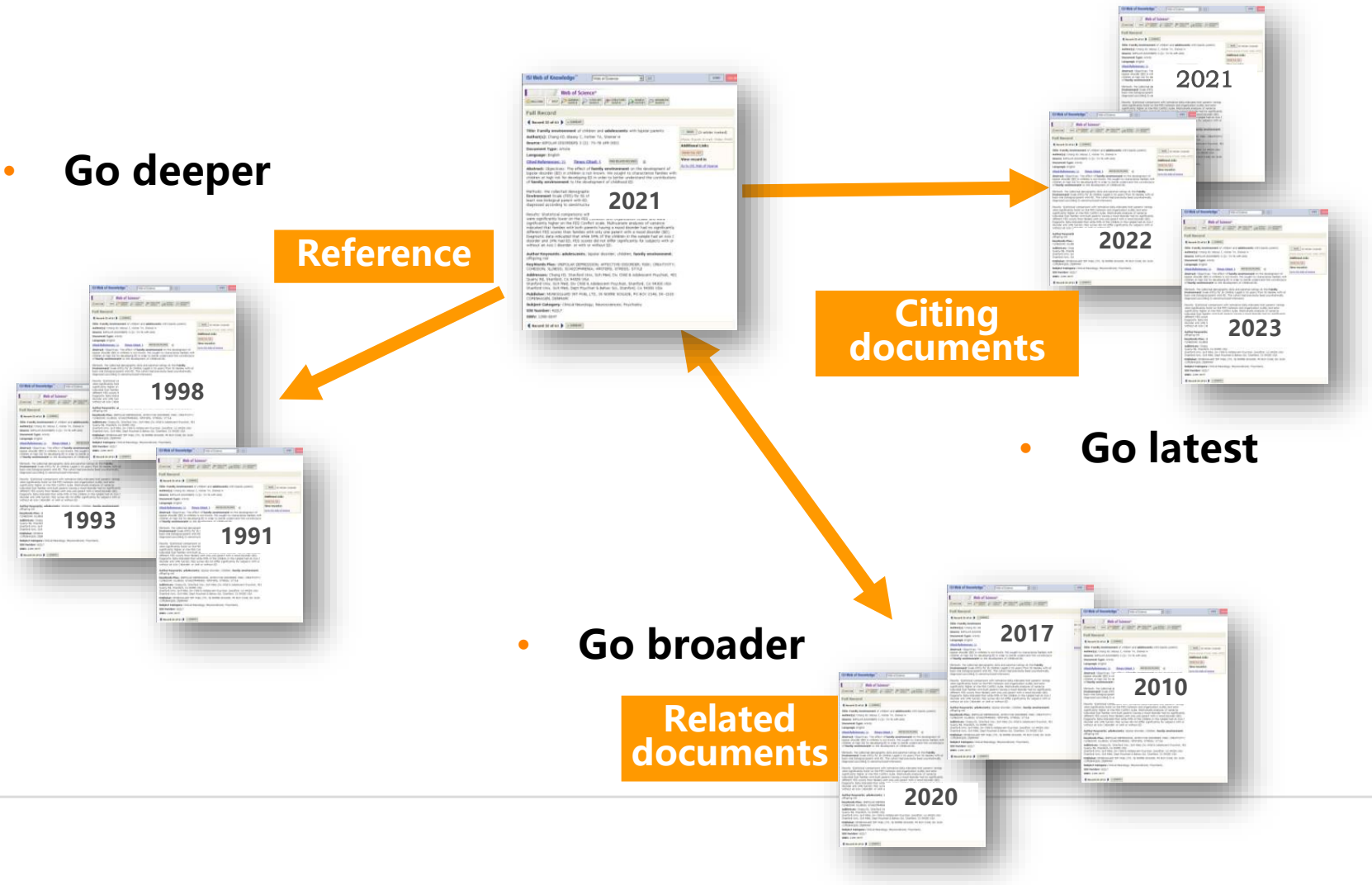

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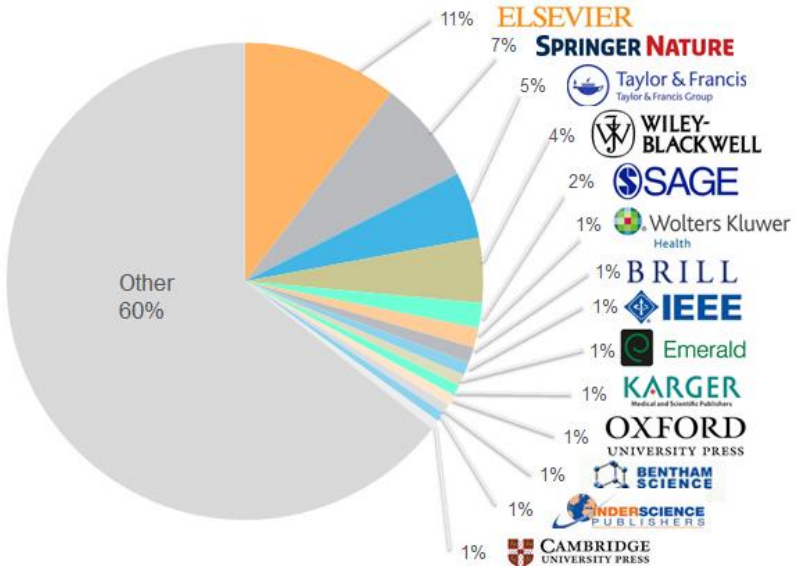


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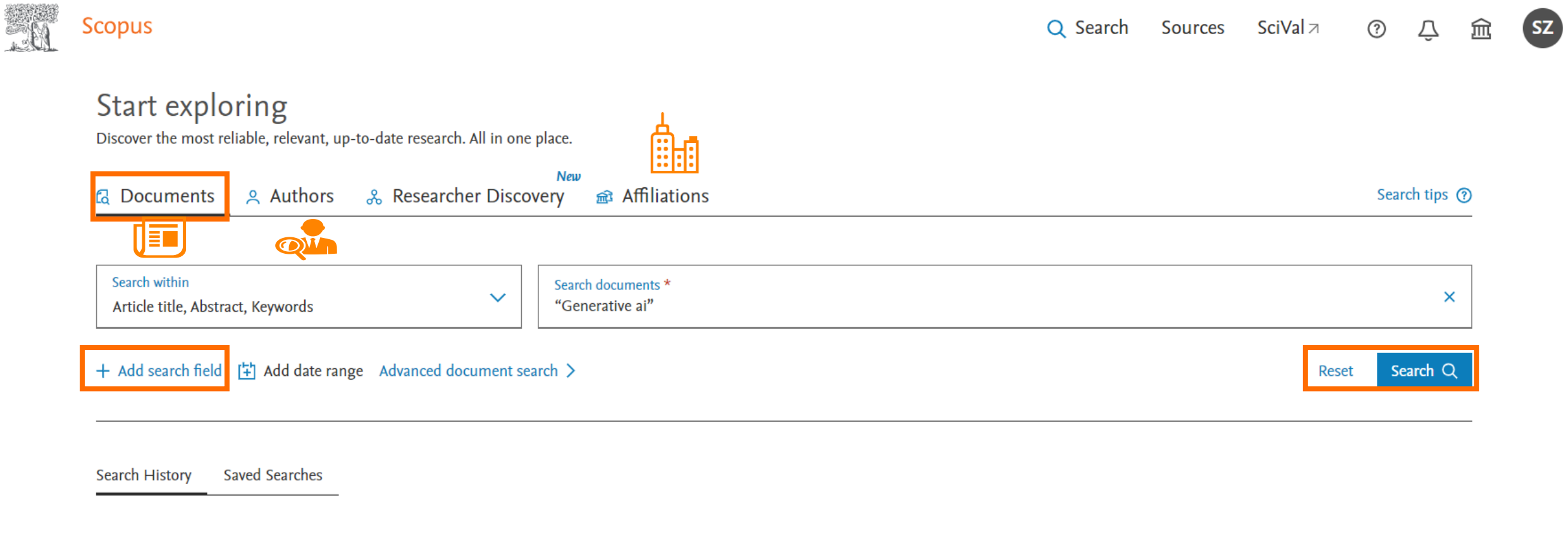


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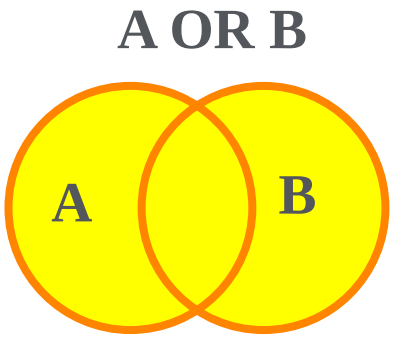


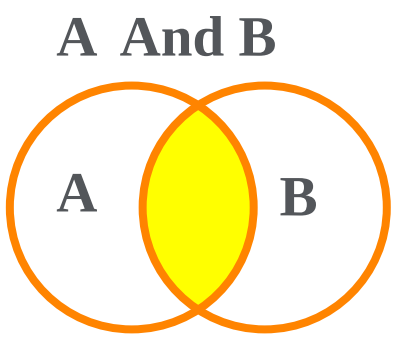


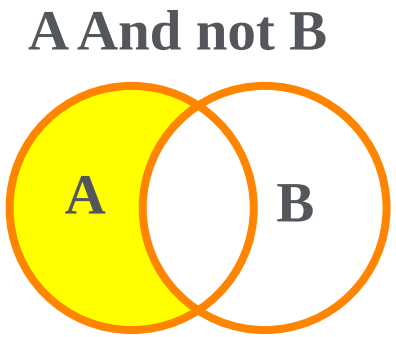


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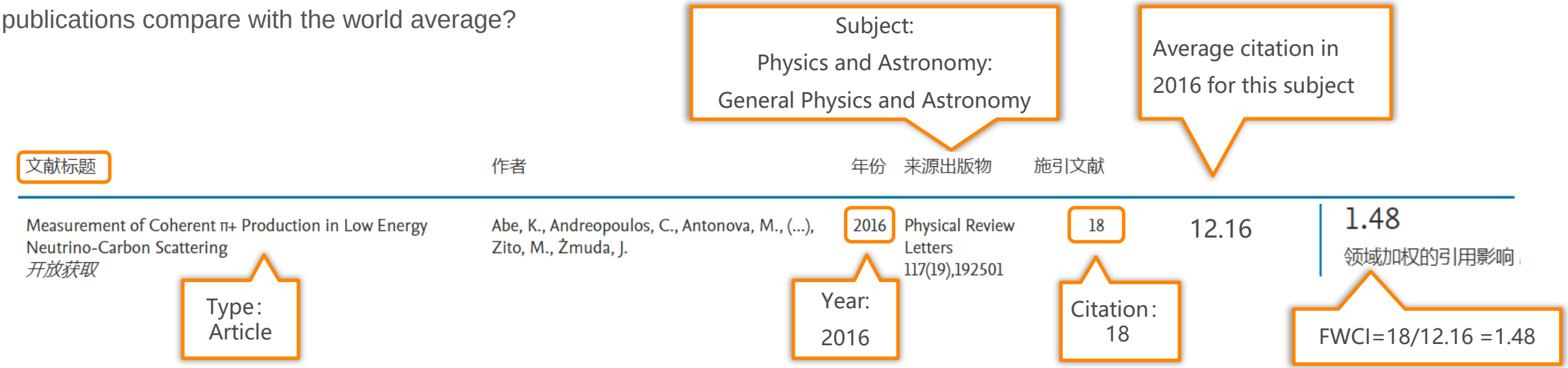


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# Investigation on the topic

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Beauties; Citations; Bibliometric Analysis ×

- Representative documents
- Top authors in this topic
- Keyphrase analysis

## Representative documents

Representative publications are very strongly linked within the topic, and are intended to give us a feel for the central research question of a topic. They typically have many within-topic links and a high fraction of their links within the topic, and are also relatively highly cited for their age.

Article

Patent sleeping beauties: evolutionary trajectories and identification methods
Hou, J., Yang, X.
*Scientometrics*, 2019
16 Cited by

Article

A parameter-free index for identifying under-cited sleeping beauties in science
Du, J., Wu, Y.
*Scientometrics*, 2018
23 Cited by

Article

*Open access*

Close | Analyze in SciVal

- "Representative work"
- "Top authors"
- "Keyphrase analysis"

## Top authors in this topic

| Name | Documents |
|---|---|
| **Sadik Batcha, M.** | 7 |
| **Hu, Xiaojun** | 6 |
| **Bu, Yi** | 5 |
| **Rousseau, Ronald** | 5 |
| **Sivaraman, P.** | 5 |

## Keyphrase analysis

View as word cloud


A A A relevance of keyphrase | declining AAAgrowing (2018-2022)

# How to read key paper

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*Scientometrics* • Volume 59, Issue 3, Pages 467 - 472 • 2004

**Document type**
Article

**Source type**
Journal

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10.1023/B:SCIE.0000018543.82441.f1

View more

## Sleeping Beauties in science

Van Raan, Anthony F. J.[a, b]
Save all to author list

[a] Ctr. for Sci. and Technology Studies, Leiden University, Leiden, Netherlands
[b] Ctr. for Sci. and Technology Studies, Leiden University, 2300

416 97th percentile
Citations in Scopus

6.02
FWCI

199
Views count

Full text options Export

In 2004, Van Raan Anthony introduced the phenomenon of "Sleeping Beauty" in science, a term used to refer to literature that has been "asleep" for a long time and has suddenly gained a lot of attention (woken up by a "prince"), and for the first time proposed quantitative metrics to measure the phenomenon of "Sleeping Beauty".

Abstract
SciVal Topics
Metrics

Abstract
A 'Sleeping Beauty in Science' is a publication that goes unnoticed ('sleeps') for a long time and then, almost suddenly, attracts a lot of attention ('is awakened by a prince'). We here report the - to our knowledge- first extensive measurement of the occurrence of Sleeping Beauties in the

Cited by 416 documents

Quantifying progress in research topics across nations
Asatani, K. , Oki, S. , Momma, T.
*(2023) Scientific Reports*

H²CGL: Modeling dynamics of citation network for impact prediction
He, G. , Xue, Z. , Jiang, Z.
*(2023) Information Processing and Management*

Can the principle of the 'right to be forgotten' be applied to academic

Related documents

# Based on critical literature - tracing of antecedent

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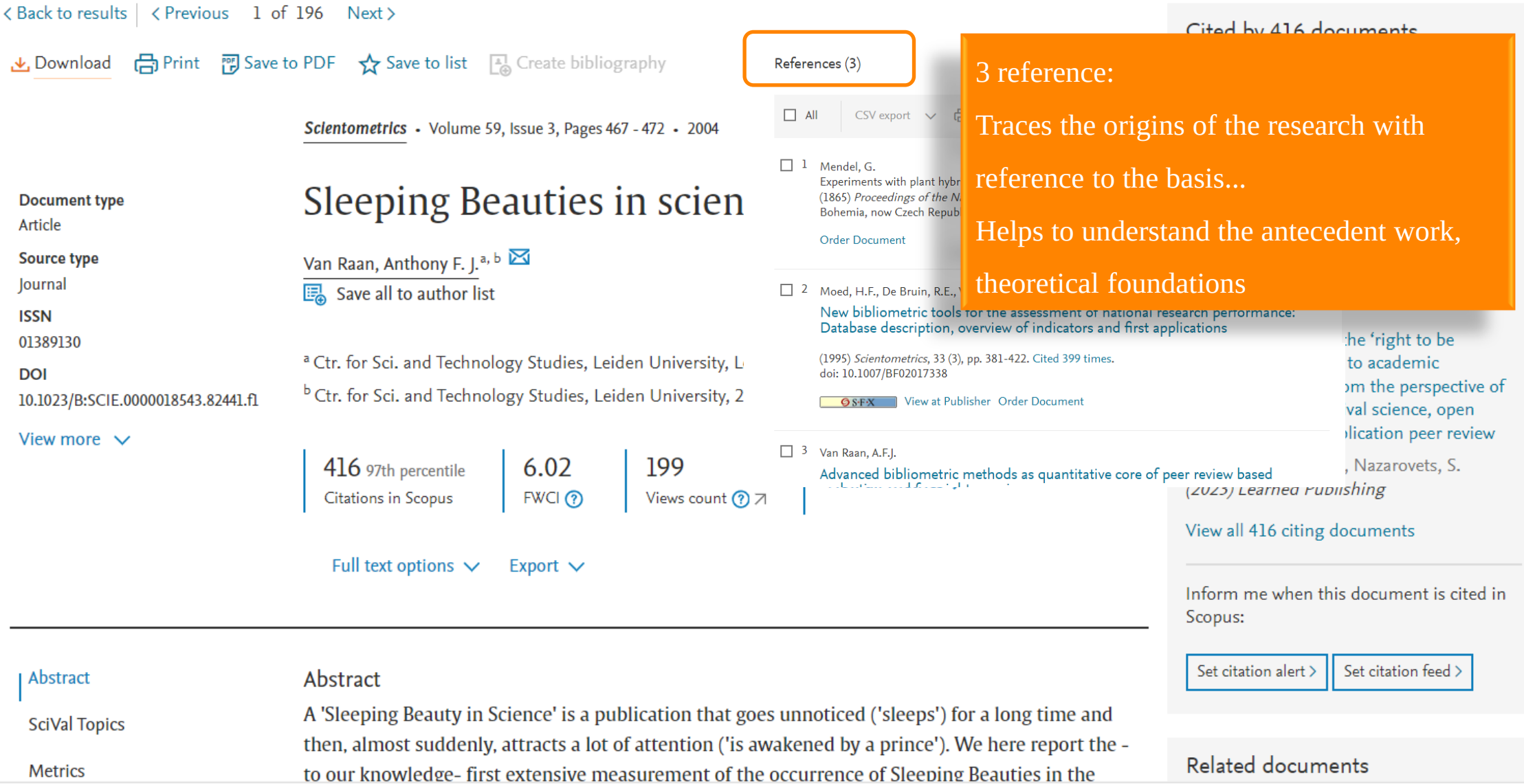


3 reference:

Traces the origins of the research with reference to the basis...

Helps to understand the antecedent work, theoretical foundations

# Citing documents

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[b] Ctr. for Sci. and Technology Studies, Leiden University, 2300 RB Leiden, P.O. Box 9555, Netherlands

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Abstract

Abstract

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Asatani, K. , Oki, S. , Momma, T.
*(2023) Scientific Reports*

H²CGL: Modeling dynamics of citation network for impact prediction
He, G. , Xue, Z. , Jiang, Z.
*(2023) Information Processing and Management*

Can the principle of the 'right to be forgotten' be applied to academic publishing? Probe from the perspective of personal rights, archival science, open science and post-publication peer review
Teixeira da Silva, J.A. , Nazarovets, S.
*(2023) Learned Publishing*

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Sleeping Beauties in science
Van Raan A.F.J.
(2004) Scientometrics, 59 (3) , pp. 467-472.

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## Learning ideas from others to inspire your own innovation

Highest cited

Search within results...

Show all abstracts  Sort on: Cited by (highest)

**Follow-up Progress in Research:**

**Identification and Measurement of Sleeping Beauty Literature**

**What a paper's citations actually measure**

**How to Scientifically Evaluate the Personal Impact of Scholars.....**

Refine results

Limit to  Exclude

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- Gold (42)
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| | | | Year | Source | Cited by |
|---|---|---|---|---|---|
| | | | 2005 | Proceedings of the National Academy of Sciences of the United States of America 102(46), pp. 16569-16572 | 7493 |
| | | *Open Access* | | | |
| | View abstract  SFX  View at Publisher  Related documents | | | | |
| 2 | What do citation counts measure? A review of studies on citing behavior *Open Access* | Bornmann, L., Daniel, H. | 2008 | Journal of Documentation 64(1), pp. 45-80 | 915 |

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416 97th percentile
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### Related documents

The use of combined bibliometric methods in research funding policy
Van Leeuwen, T.N. , Van Der Wurff, L.J. , Van Raan, A.F.J.
*(2001) Research Evaluation*

First evidence of serious language-bias in the use of citation analysis for the evaluation of national science systems
Van Leeuwen, Th.N. , Moed, H.F. , Tijssen, R.J.W.
*(2000) Research Evaluation*

Language biases in the coverage of the Science Citation Index and its consequences for international comparisons of national research performance
Van Leeuwen, T.N. , Moed, H.F. , Tussen, R.J.W.
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2

# Comprehensive understanding the target research topic

# Overview of results - analyze results

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Documents | Preprints (Beta) | Patents | Secondary documents | Research data

556 documents found

Analyze results

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Search within results

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Year

Range | Individual

from — to

Author name

- Muller, M. 10
- Weisz, J.D. 10
- Houde, S. 8

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| | Document title | Authors | Source | Year | Citations |
|---|---|---|---|---|---|
| 1 | Article<br>**The Impact of Generative Content on Individuals Privacy and Ethical Concerns**<br>Show abstract \| S·F·X \| Related documents | Bale, A.S., Dhumale, R.B., Beri, N., ...Sanamdikar, S., Savadatti, M.B. | International Journal of Intelligent Systems and Applications in Engineering, 12(1s), pp. 697–703 | 2024 | 0 |
| 2 | Article<br>**Can a computer outfake a human?**<br>Show abstract \| S·F·X \| View at Publisher \| Related documents | Phillips, J., Robie, C. | Personality and Individual Differences, 217, 112434 | 2024 | 0 |
| 3 | Article<br>**The ethics of ChatGPT – Exploring the ethical issues of an emerging technology**<br>Show abstract \| S·F·X \| View at Publisher \| Related documents | Stahl, B.C., Eke, D. | International Journal of Information Management, 74, 102700 | 2024 | 0 |

# Overview of a research question - Trend

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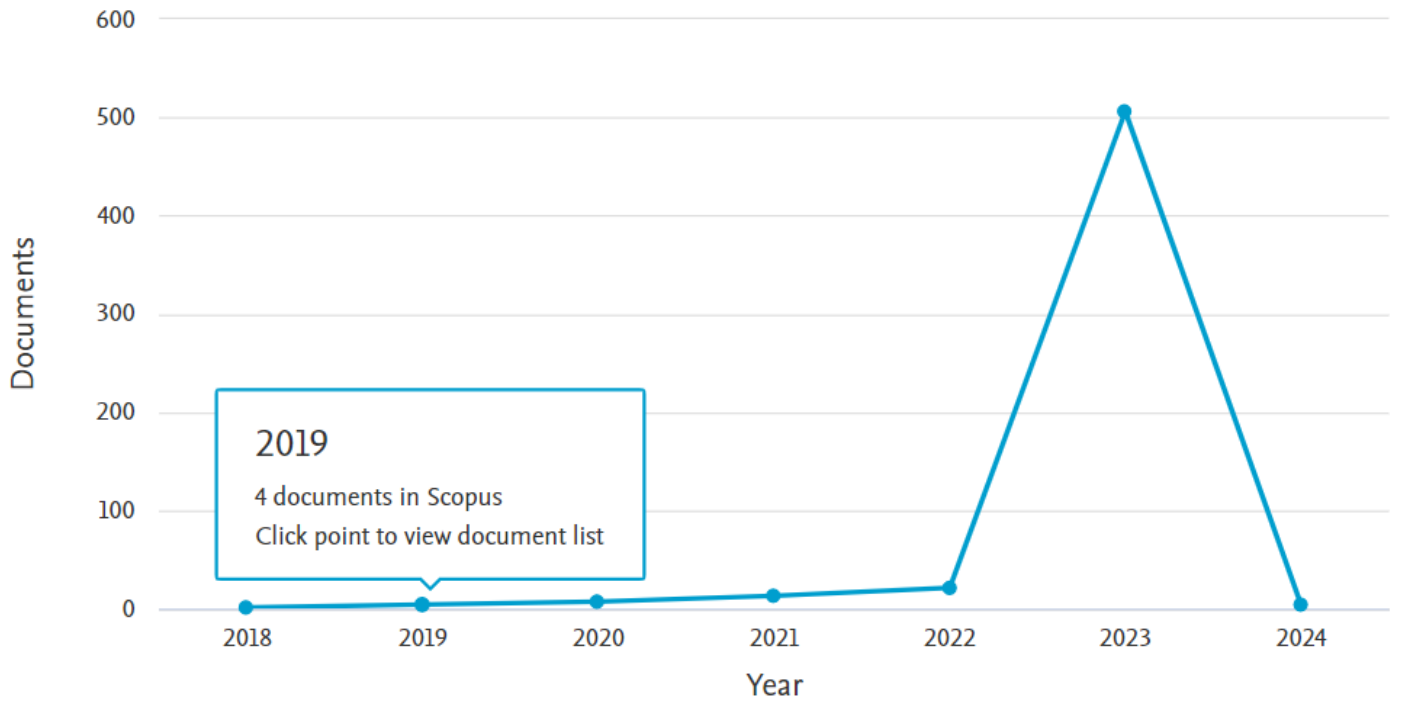
## 556 document results

Select year range to analyze: 2018 to 2024 Analyze

| Year ↓ | Documents ↑ |
|---|---|
| 2024 | 4 |
| 2023 | 506 |
| 2022 | 21 |
| 2021 | 13 |
| 2020 | 7 |
| 2019 | 4 |
| 2018 | 1 |

Documents by year



# Overview of a research question

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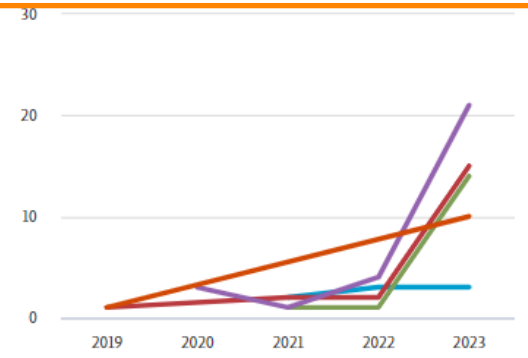
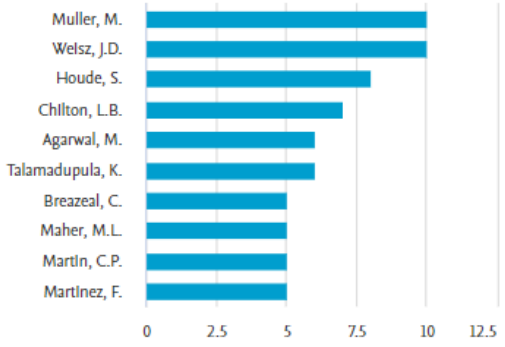
Click on cards below to see additional data.

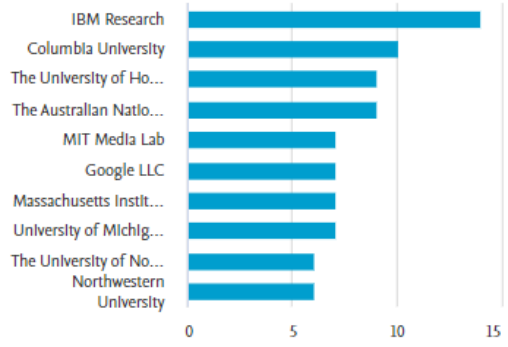
## Documents per year by source




## Documents by author




## Documents by affiliation

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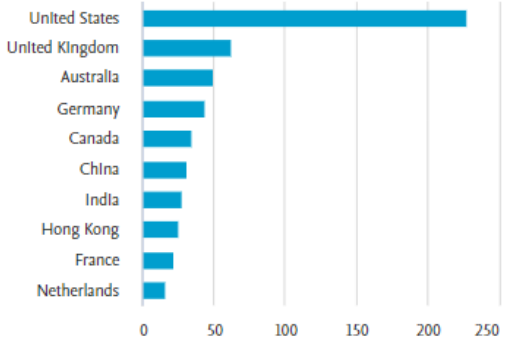
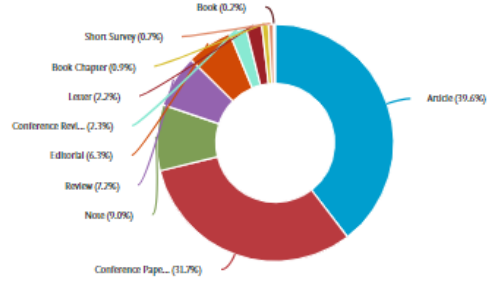



## Documents by type

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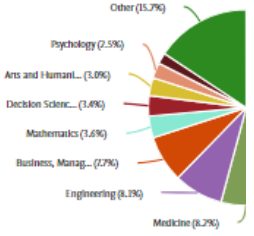
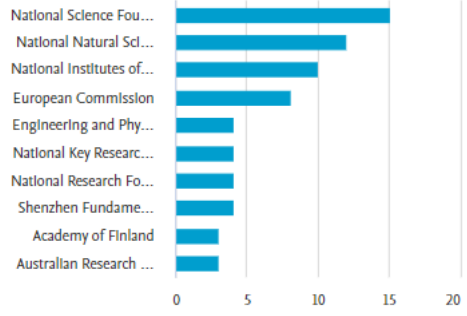



## Documents by funding sponsor



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# Scopus quick tips

# Tracking recent advances

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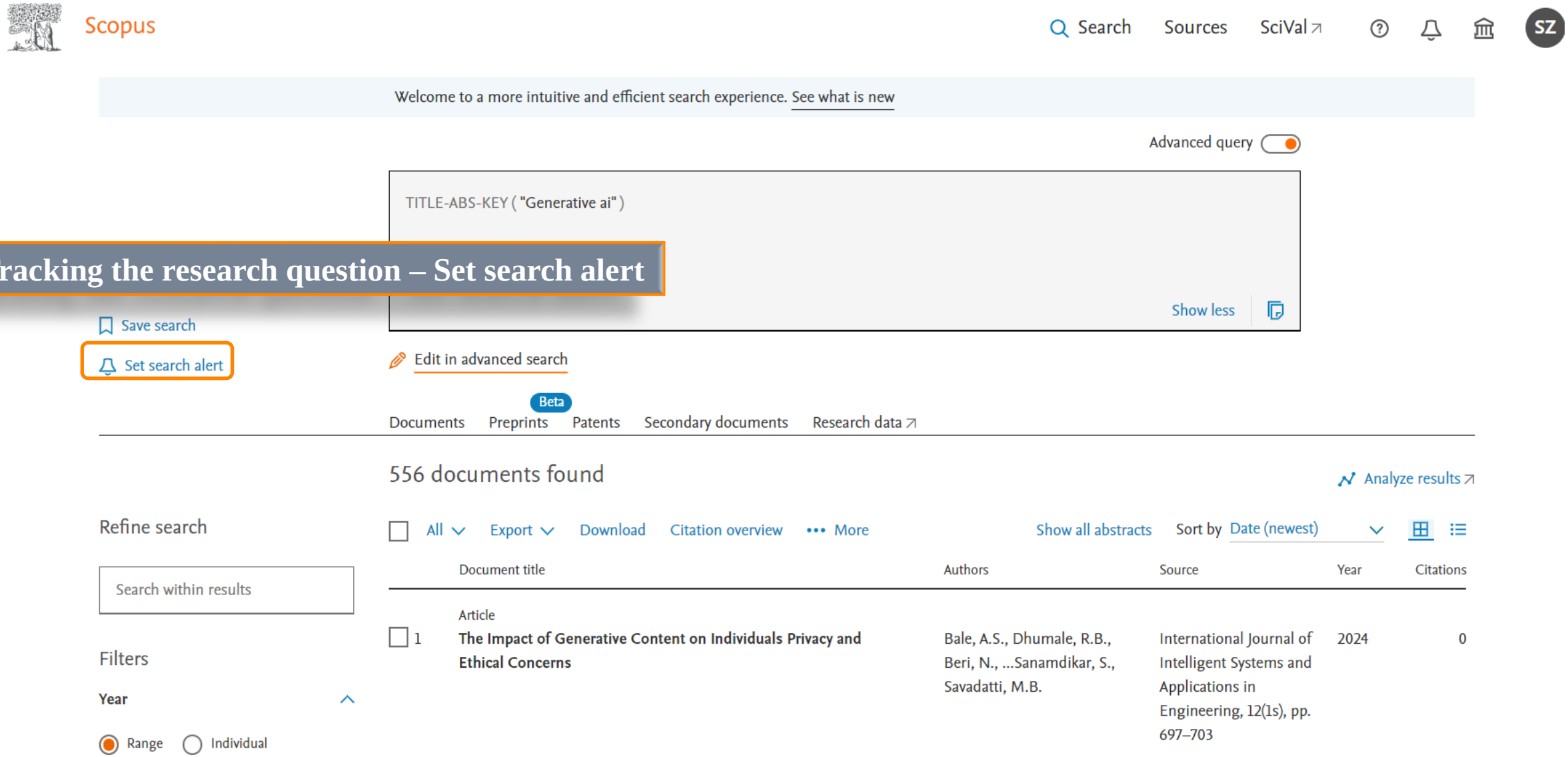

# Tracking leading scholar

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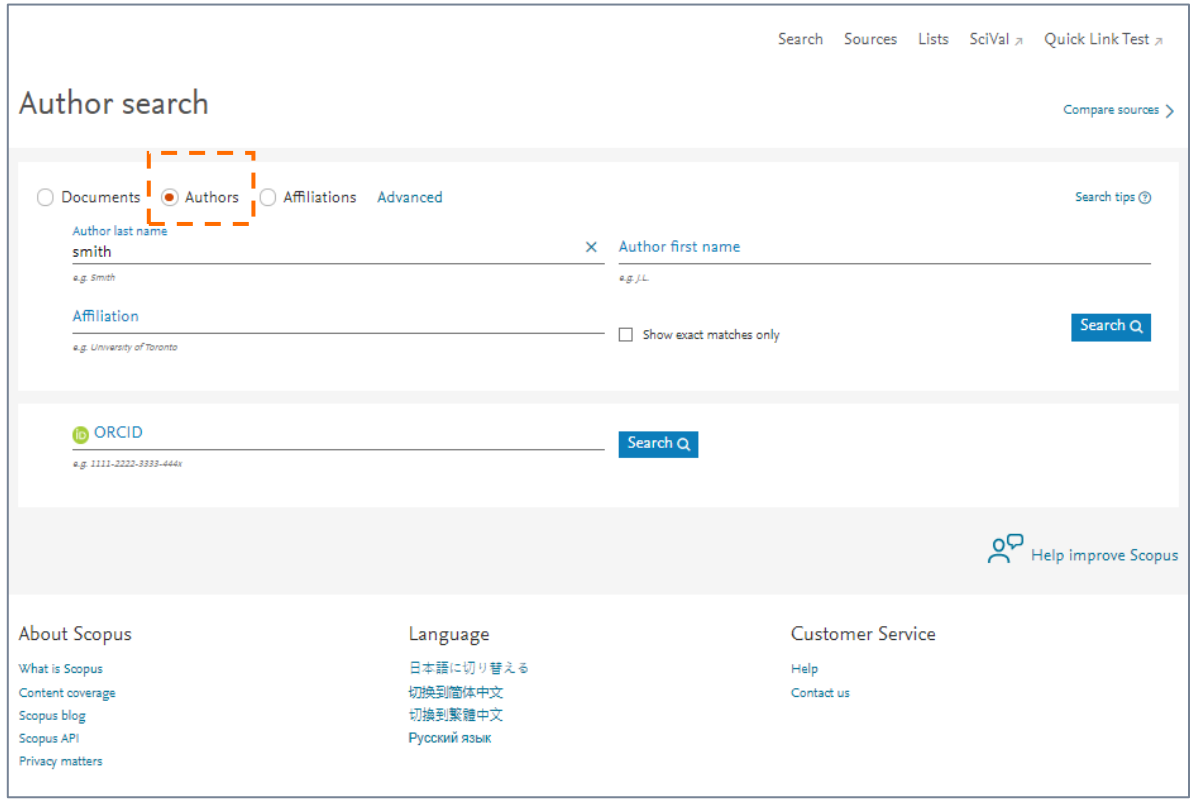
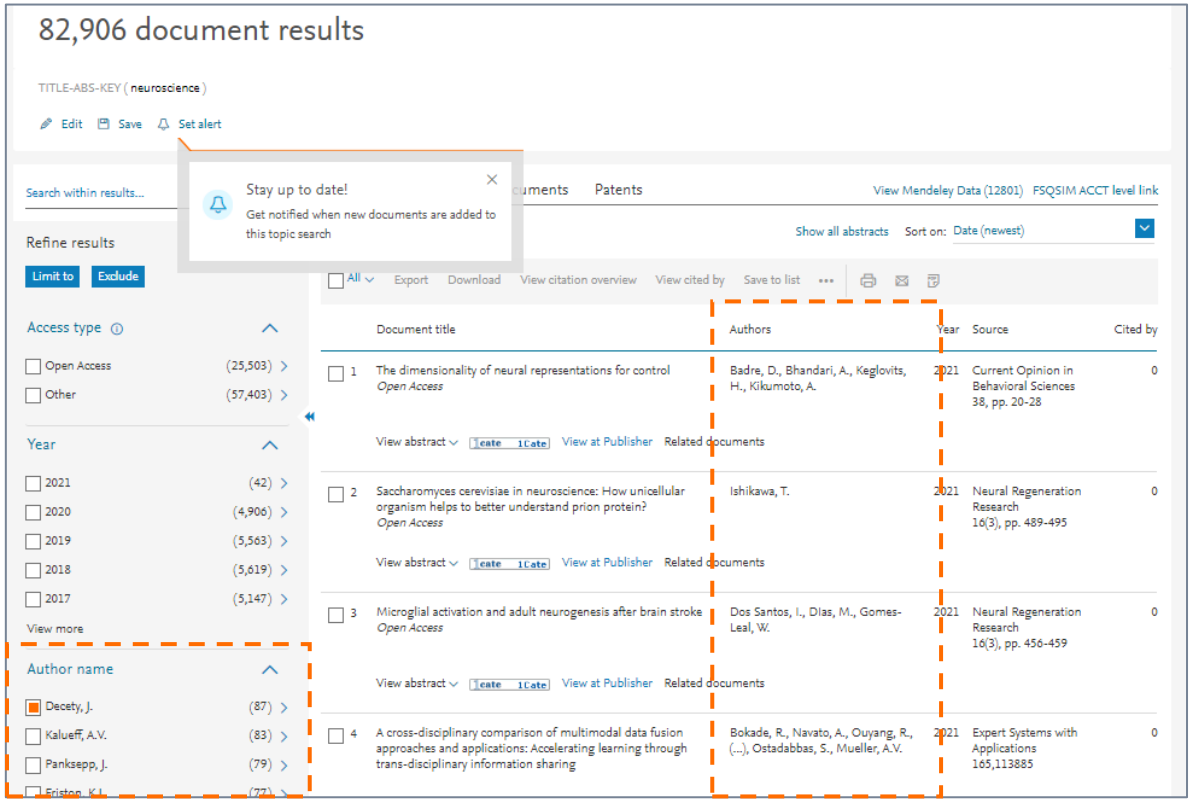
## By Author Search

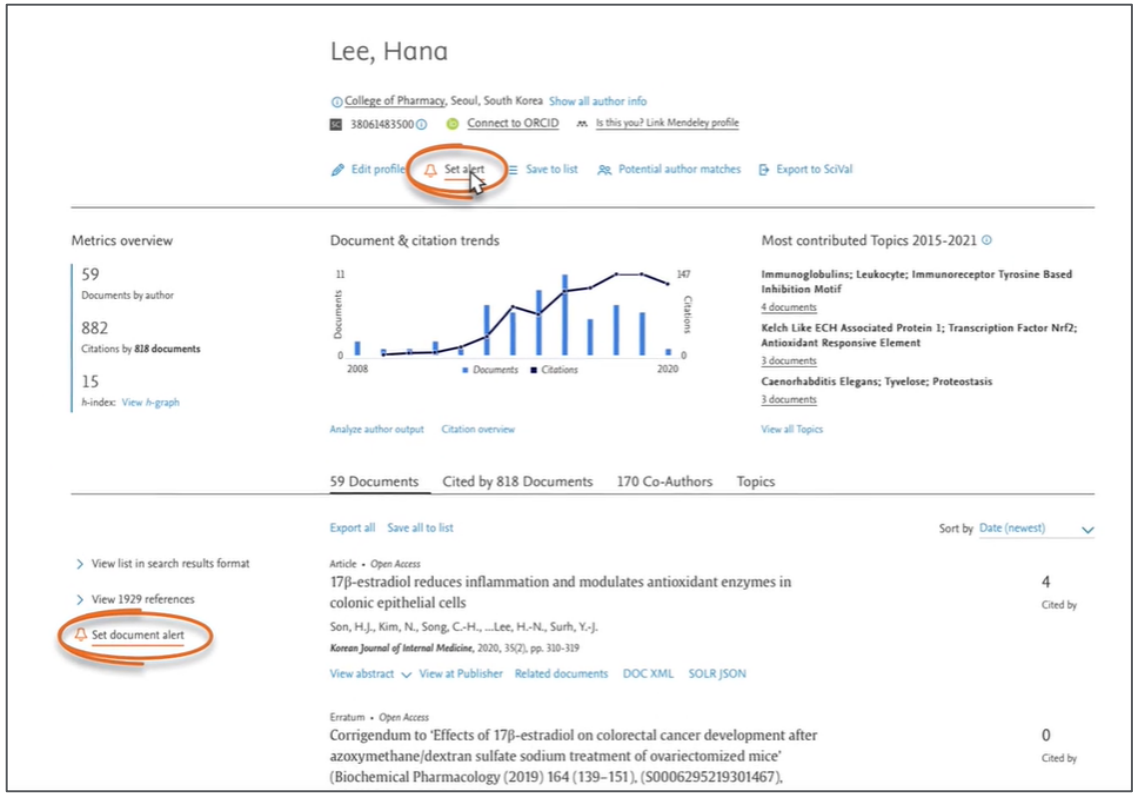


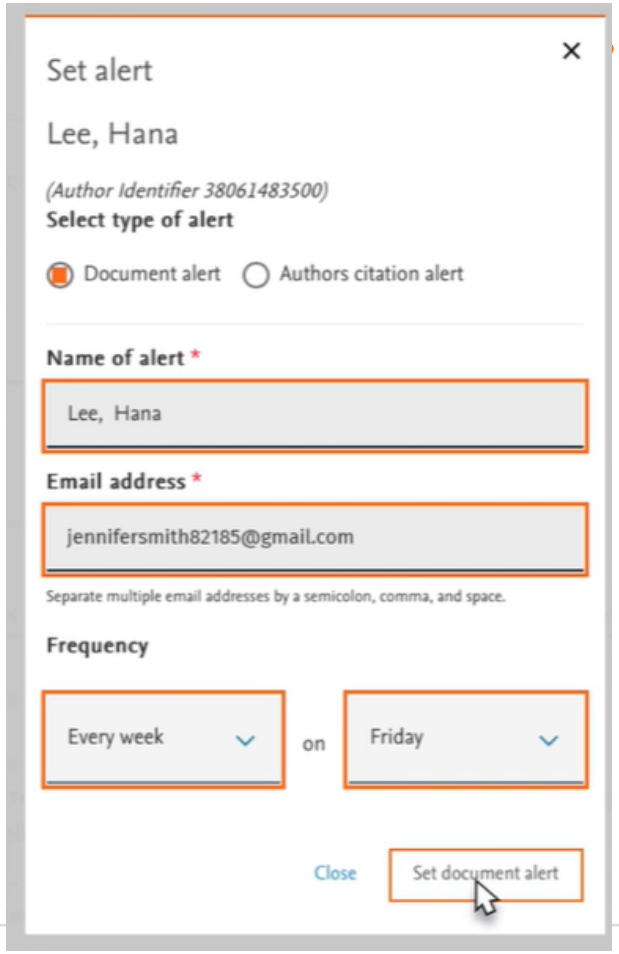

## By Topical Area




# Navigate to Author Profiles

# Keep track of an Author

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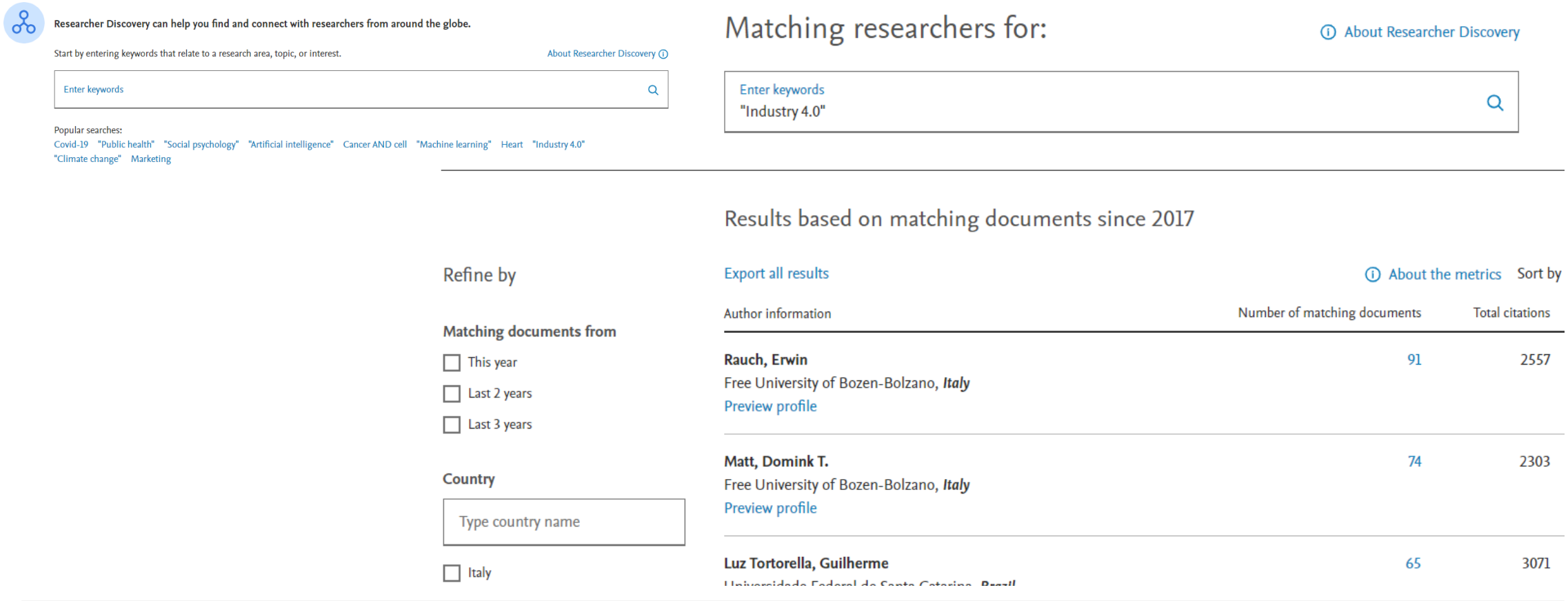
# Researcher Discovery



3

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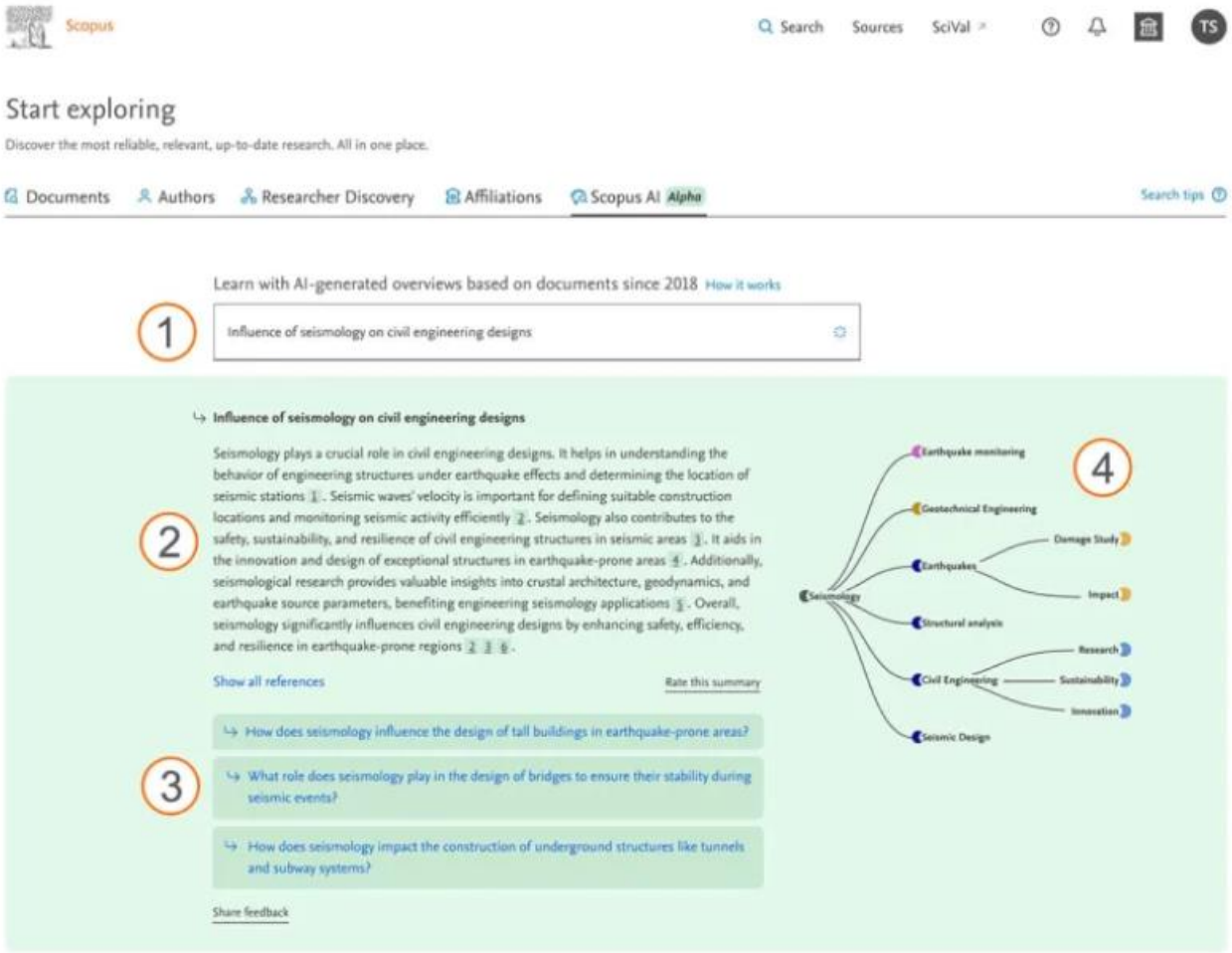


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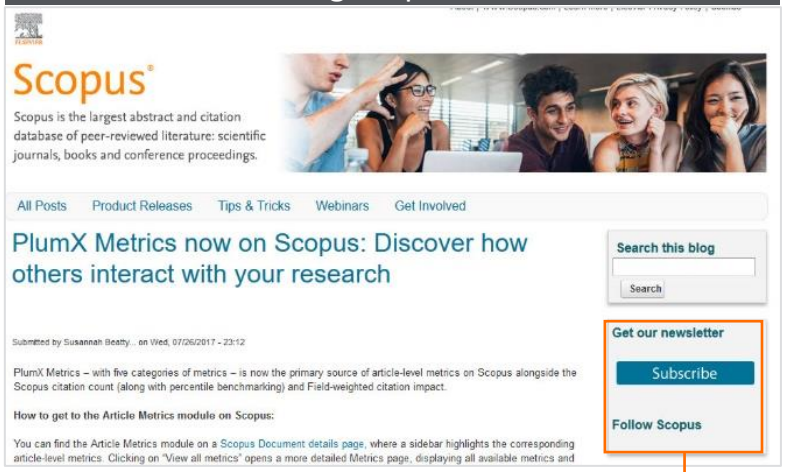


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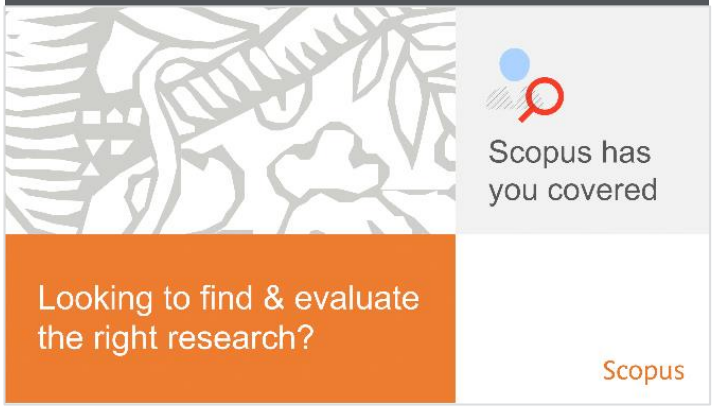


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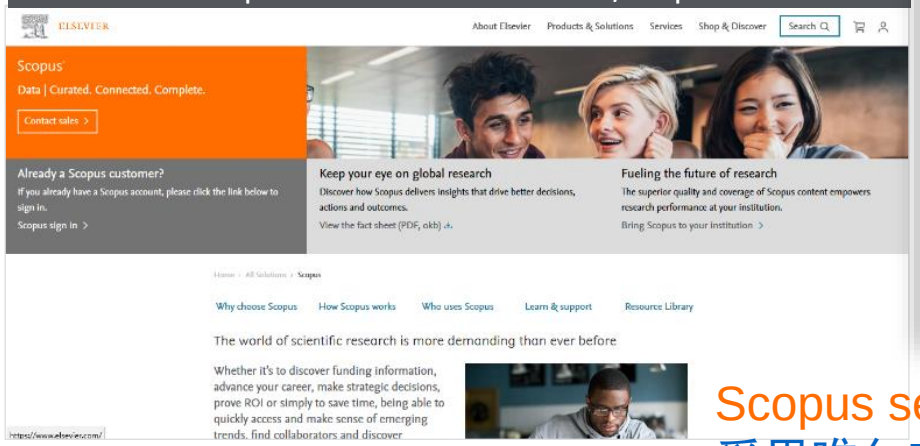


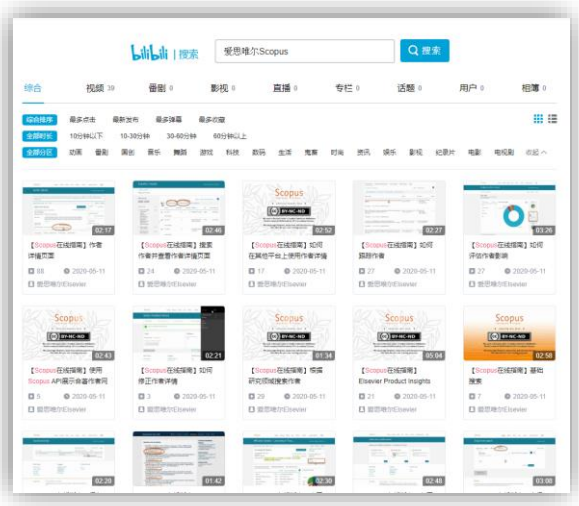


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