Bibliothek der Universität Zürich | ZB Zentralbibliothek Zürich

Universität Zürich[UZH]

Einführung und Grundlagen der Bibliometrie

28.5.24

Gary Seitz

Programm

1. Bibliometrie: Begriff und Anwendungen

2. Analysen basierend auf Zitationen
   Populäre bibliometrische Indikatoren:

   – Journal Impact Factor

   – h-Index

3. Analysen thematischer Suchen

4. Anwendungen in Google Scholar und Altmetrics

1. Begriff und Anwendungen

Begriff

*"… the application of **mathematical and statistical methods** to books and other **media of communication**."*
(Pritchard, 1969)

*"Bibliometrie ist **die Anwendung quantitativer Methoden zur Analyse und Beschreibung von Publikationsprozessen und deren Impact oder Resonanz**. Bezogen auf den wissenschaftlichen Publikationsoutput spricht man von Bibliometrie. …*

Beschreibung der Universitätsbibliothek Wien, Team Abteilung für Bibliometrie und Publikationsstrategien. Über Bibliometrie. https://bibliothek.univie.ac.at/bibliometrie/uber_bibliometrie.html (Abgerufen 01.05.2021)

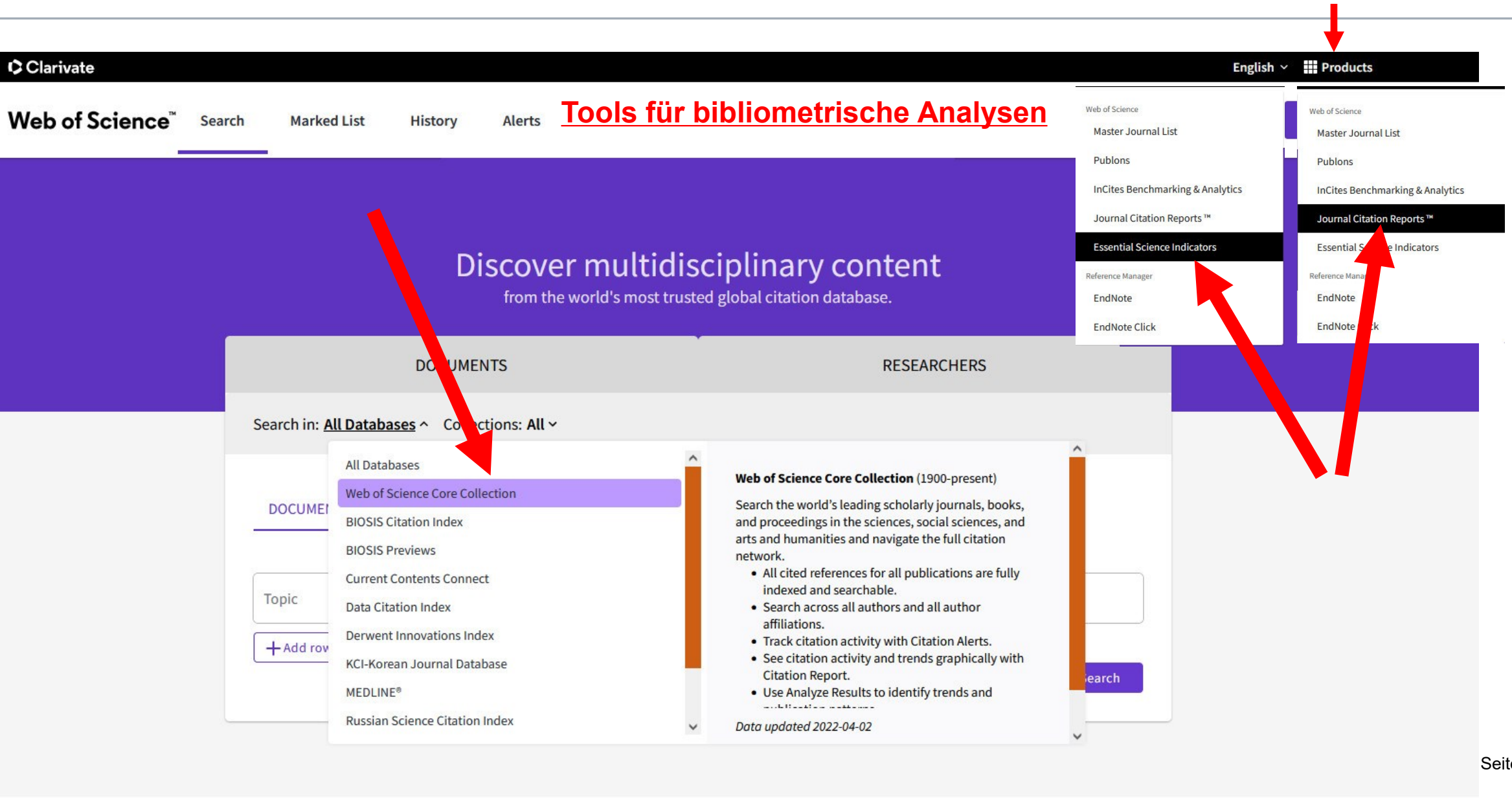
Anwendungen

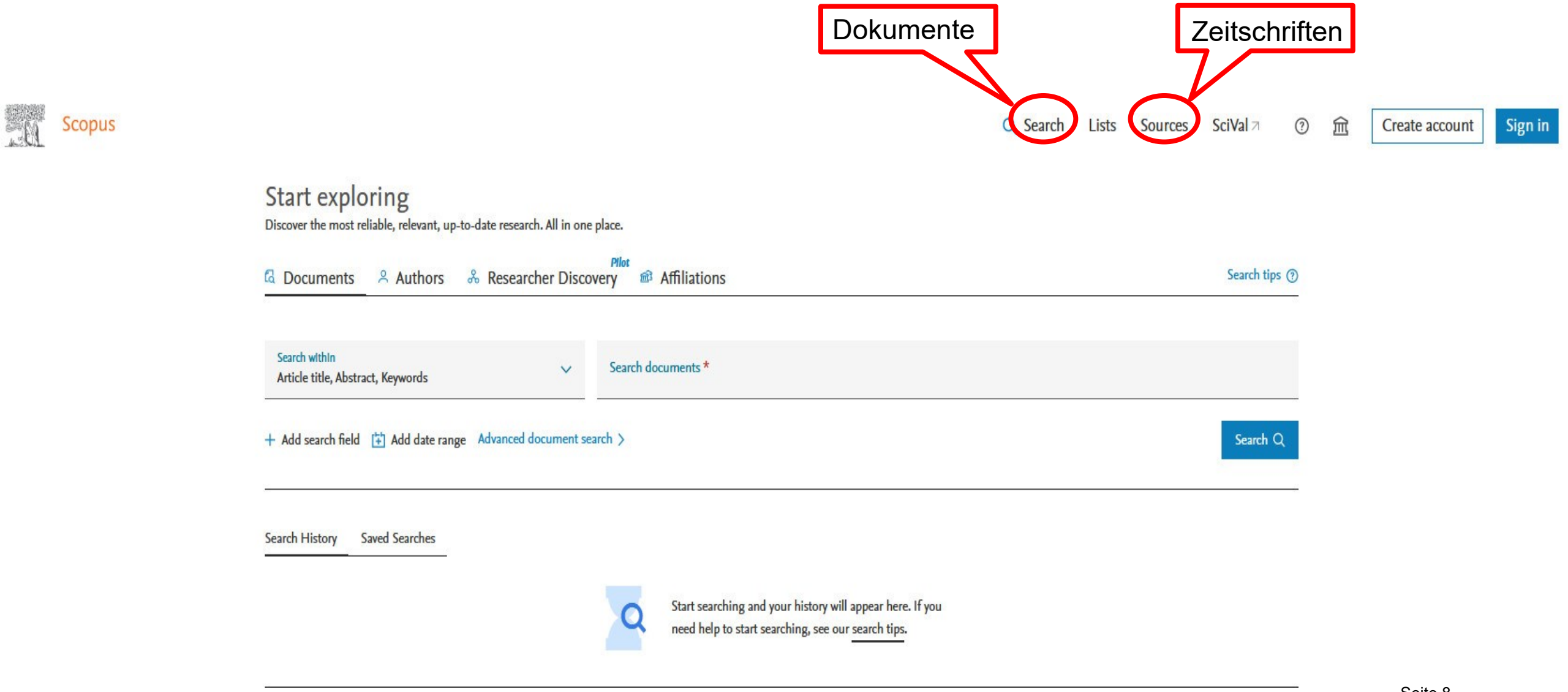
- Misst den wissenschaftlichen Output und die Resonanz von wissenschaftlichen Publikationen.
- Hilft, die **Reputation einer Person, Forschungsgruppe oder Institution** nachzuweisen.
- Dient als **Entscheidungshilfe** für Institutionen bei Mittelzuweisung, Personalangelegenheiten, Förderkriterien.
- Kann Entwicklungen und Trends von Forschungsgebieten aufzeigen.
- Hilft, internationale Kollaborations- und Kooperationsmöglichkeiten zu identifizieren und Forschungsnetzwerke aufzuzeigen.
- …und kann Bibliotheken als Grundlage für die Erwerbung von Monografien, Zeitschriften und Datenbanken dienen.

Ursprung der heutigen Bibliometrie ??

- Eugene Garfield (*16 Sept. 1925, New York)
- Garfield (1955). Citation Indexes for Science.
- Publikation des Science Citation Index (zuerst 1963).
- 1976: Publikation des Journal Citation Report (JCR) mit mit Hinweis auf den Journal Impact Factor (JIF).
- E.Garfield (10.8.2011 in NZZ): *It has always irritated me that the SCI is used to evaluate average scientists. I have always stressed that it is not suitable for this purpose*.

Tools für bibliometrische Analysen




Dokumente
Zeitschriften
Scopus
Search
Lists
Sources
SciVal
Create account
Sign in
Start exploring
Discover the most reliable, relevant, up-to-date research. All in one place.
Documents
Authors
Researcher Discovery
Pilot
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Search tips
Search within
Article title, Abstract, Keywords
Search documents *
Add search field
Add date range
Advanced document search
Search
Search History
Saved Searches
Start searching and your history will appear here. If you need help to start searching, see our search tips.

2. Analysen basierend auf Zitationen

a) Populäre bibliometrische Indikatoren
   - **Journal Impact Factor**
   - h-Index

b) Autorenidentifikation

Journal Impact Factor (JIF)

$$\textbf{JIF 2022} = \frac{\text{Anz. Zitationen im 2022 der im Journal publizierten Dokumente in 2020 + 2021}}{\text{Anz. "Citable Items" (Articles, Reviews, Proceedings Papers) in 2020 + 2021}}$$

⇨ Ein Impact Factor von 3.9 (JIF 2022 von Scientometrics) bedeutet, dass die in den Jahren 2020 und 2021 in Scientometrics publizierten Artikel im Jahr 2022 durchschnittlich ca. 3.9 Mal zitiert wurden.

Die Zahl muss immer in Relation zu anderen Zeitschriften des Fachgebiets gesetzt werden (Journal Ranking)! Keine Qualitätsaussage über einen einzelnen Artikel.

Kritik am Journal Impact Factor

- Unterschiedliche Dokumenttypen im Zähler (Dokumente) und Nenner ("Citable Items")
  - **Dokumente:** Articles, Reviews, Proceedings Papers, Notes, Editorial Notes, Letters, etc.
  - **Citable Items:** Articles, Reviews, Proceedings Papers

- Zitierfenster von zwei Jahren ist für viele Fachgebiete zu kurz.
  ➔ Fachgebiete mit schnellen Zitationsraten bevorzugt (➔ 5 Year IF)

- JIF nur in Relation zur Fachkategorie anwenden! Aber auch innerhalb der Fachkategorie sind die Unterschiede gross. (Beispiel Umweltwissenschaften)

- Selbstzitationen können das Journal-Ranking stark beeinflussen. (➔ IF without Journal Self Cites)

- Zeitschriftenauswahl in WoS Core Collection:
  - Web of Science Journal Evaluation Process and Selection Criteria
    https://clarivate.com/webofsciencegroup/journal-evaluation-process-and-selection-criteria/

"Verbesserungen"

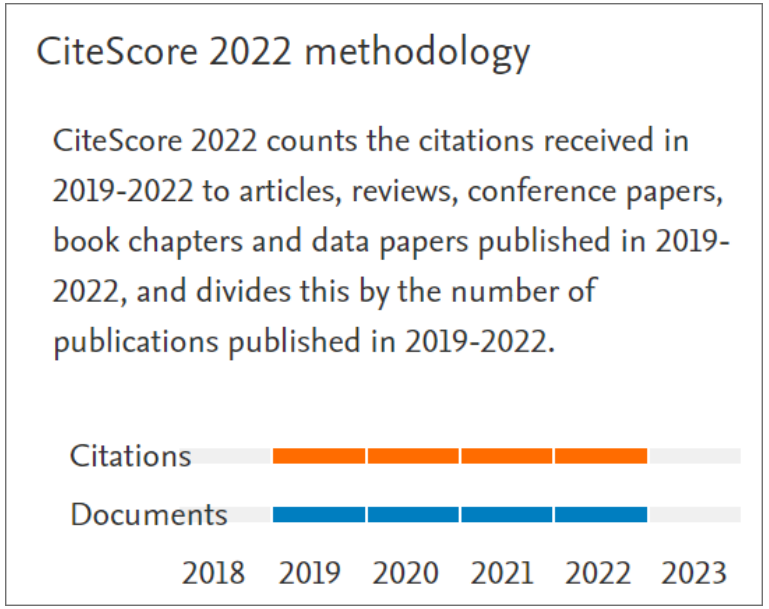
- **Five-Year Impact Factor**
  - JIF mit 5-Jahres-Fenster
- **Journal Impact Factor without Journal Self Cites**
  - JIF ohne Selbstzitationen
- **Eigenfactor Score**
  - 5-Jahres-Fenster
  - Eigenzitate der Zeitschrift werden nicht gezählt
  - Eigenfactor bewertet Zitationen aus hochzitierten Journals höher
  - Summe der Eigenfactor Scores über alle Zeitschriften beträgt 100 %

Scopus Source I

CiteScore

Berechnung analog zum Journal Impact Factor, wobei **dieselben Dokumenttypen in Zähler und Nenner** einbezogen werden

4-Jahres-Zitierfenster



"The CiteScore numerator and denominator both include the same five document types (articles, reviews, conference papers, book chapters, and data papers) for consistency. This approach gives a more complete picture of citation impact and makes manipulation of the calculation more difficult.

Articles-in-press are indexed in Scopus for some publishers, but are not included in the CiteScore calculation.

https://service.elsevier.com/app/answers/detail/a_id/14880/supporthub/scopus/

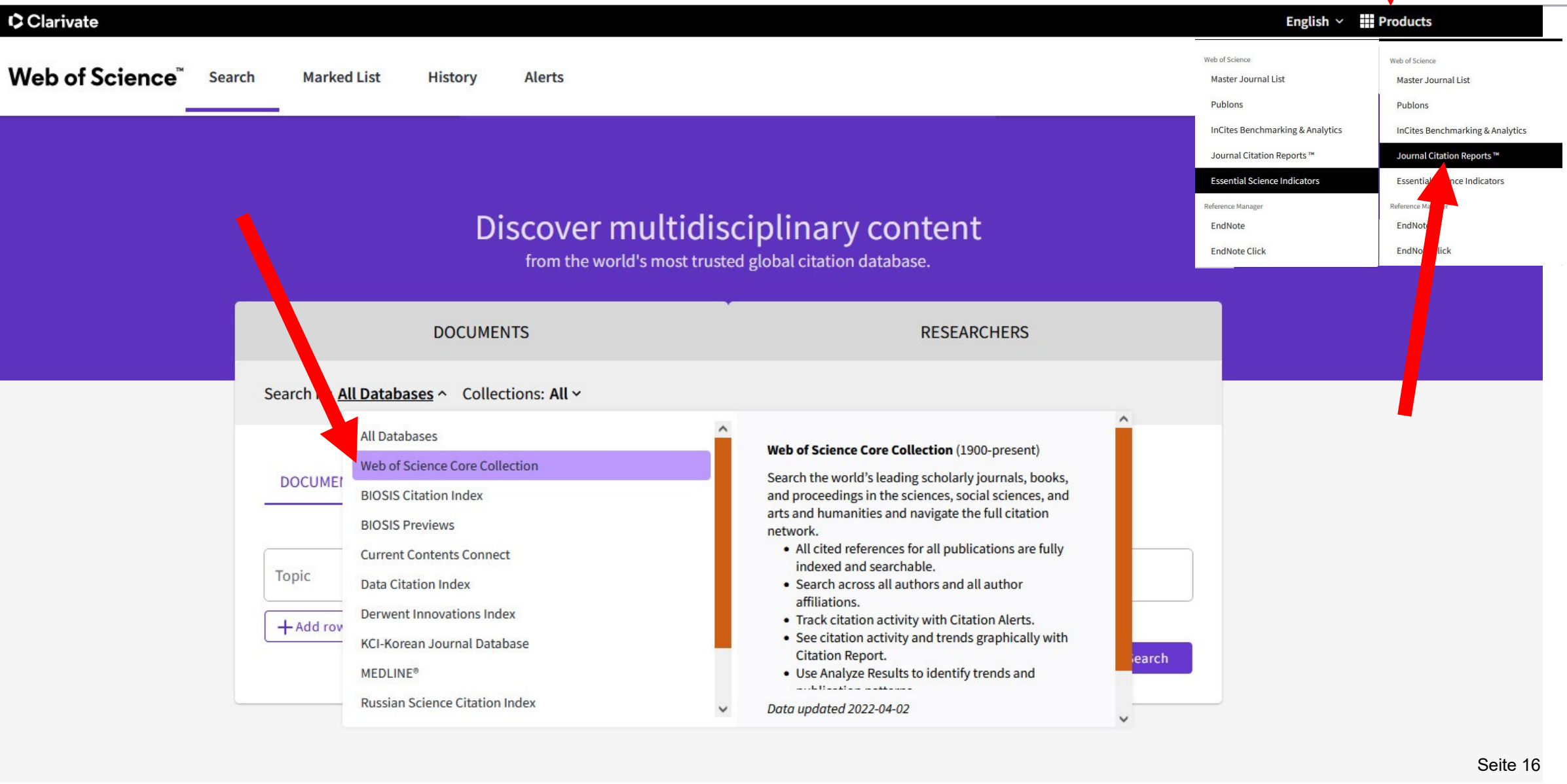
Journal Metrics in Scopus

SJR (SCImago Journal Rank)

- Bewertet wie der Eigenfactor Zitationen aus hochzitierten Journals höher
- Inspiriert vom Google PageRank Algorithmus
- 2-Jahres-Zitationsfenster

SNIP (Source Normalized Impact per Paper in Scopus)

- Werte sind normalisiert, sodass sie über die Fachgebiete vergleichbar sind
- Berücksichtigt Zitationspotential in einem Feld (Häufigkeit und Schnelligkeit der Zitationen, Abdeckungsgrad des Felds durch die Scopus-Datenbank)
- 4-Jahres-Zitationsfenster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Alerts
Web of Science
Master Journal List
Publons
InCites Benchmarking & Analytics
Journal Citation Reports ™
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from the world's most trusted global citation database.
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RESEARCHERS
Search
All Databases
Collections: All
All Databases
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BIOSIS Citation Index
BIOSIS Previews
Current Contents Connect
Data Citation Index
Derwent Innovations Index
KCI-Korean Journal Database
MEDLINE®
Russian Science Citation Index
Topic
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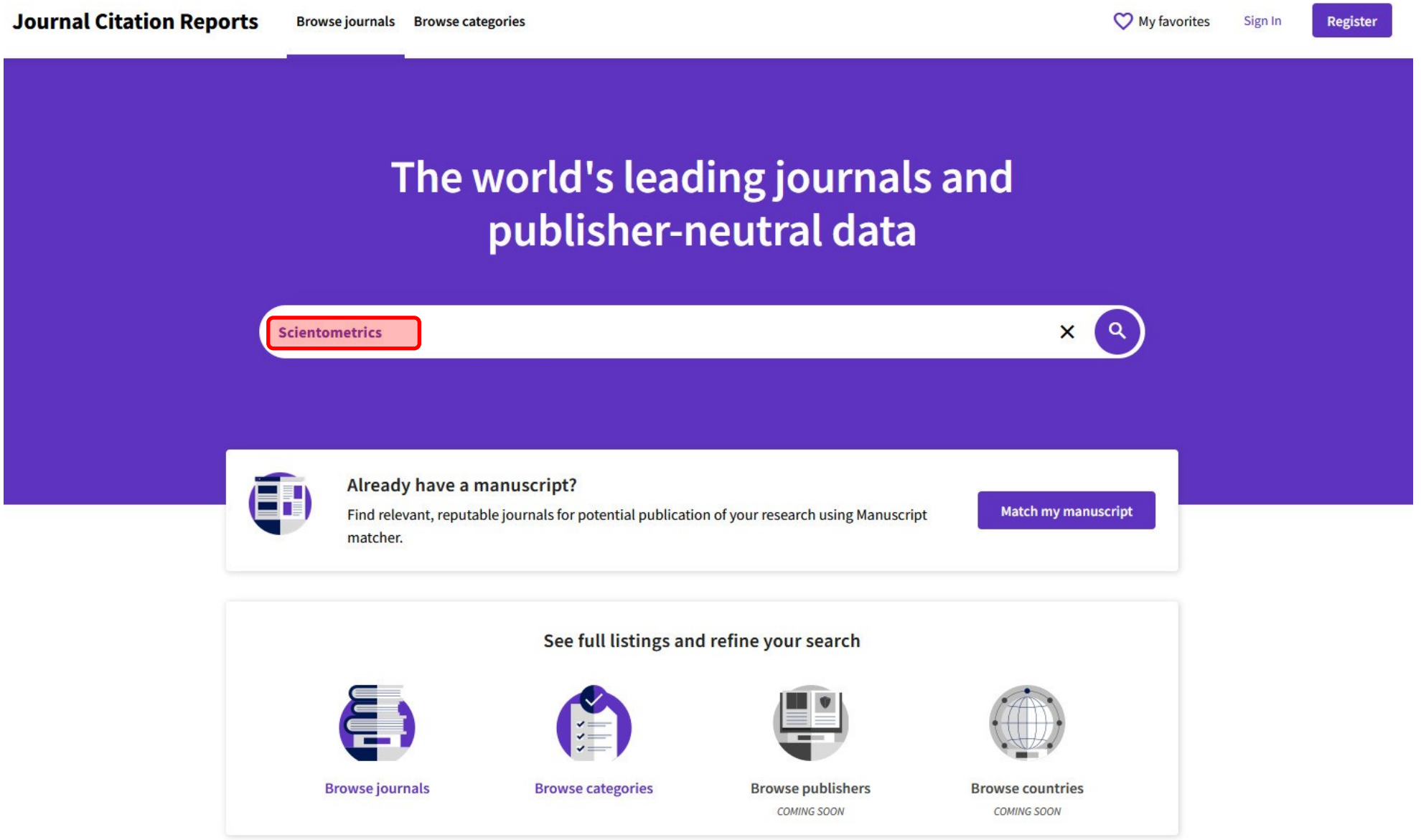
Web of Science Core Collection (1900-present)
Search the world's leading scholarly journals, books, and proceedings in the sciences, social sciences, and arts and humanities and navigate the full citation network.
All cited references for all publications are fully indexed and searchable.
Search across all authors and all author affiliations.
Track citation activity with Citation Alerts.
See citation activity and trends graphically with Citation Report.
Use Analyze Results to identify trends and
Data updated 2022-04-02


Journal Citation Reports
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Browse categories
My favorites
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Register
The world's leading journals and publisher-neutral data
Scientometrics
Already have a manuscript?
Find relevant, reputable journals for potential publication of your research using Manuscript matcher.
Match my manuscript
See full listings and refine your search
Browse journals
Browse categories
Browse publishers
COMING SOON
Browse countries
COMING SOON

JCR Year 2022

Favorite Export

SCIENTOMETRICS

ISSN
0138-9130

EISSN
1588-2861

JCR ABBREVIATION
SCIENTOMETRICS

ISO ABBREVIATION
Scientometrics

Journal information

EDITION
Social Sciences Citation Index (SSCI)
Science Citation Index Expanded (SCIE)

CATEGORY
INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS - SCIE

LANGUAGES
English

REGION
NETHERLANDS

1ST ELECTRONIC JCR YEAR
1997

Publisher information

PUBLISHER
SPRINGER

ADDRESS
VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS

PUBLICATION FREQUENCY
12 issues/year

Journal Impact Factor

The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection. It should be used with careful attention to the many factors that influence citation rates, such as the volume of publication and citations characteristics of the subject area and type of journal. The Journal Impact Factor can complement expert opinion and informed peer review. In the case of academic evaluation for tenure, it is inappropriate to use a journal-level metric as a proxy measure for individual researchers, institutions, or articles. Learn more

2022 JOURNAL IMPACT FACTOR

3.9

View calculation

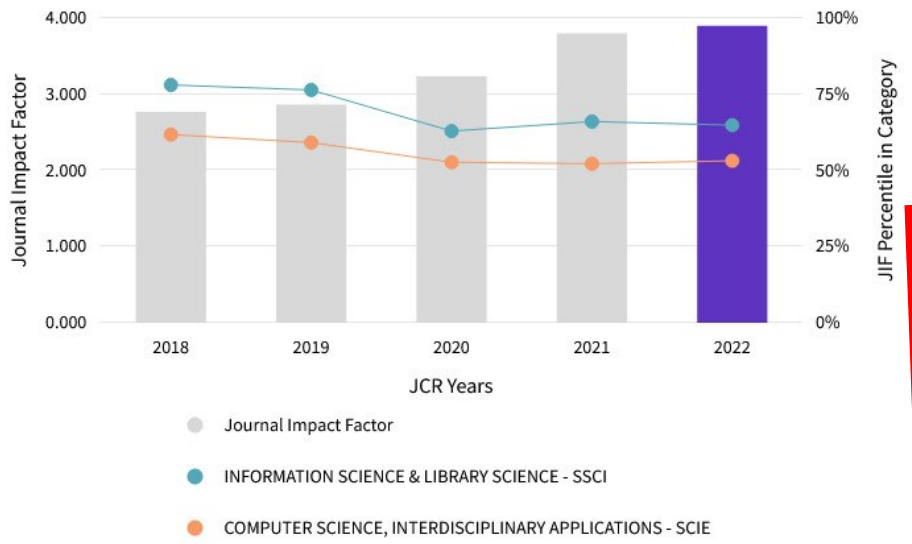
Calculation

Journal Impact Factor ™ is calculated using the following metrics:

$$\frac{\text{Citations in 2022 to items published in 2020 (2,058) + 2021 (1,191)}}{\text{Number of citable items in 2020 (456) + 2021 (375)}} = \frac{3{,}249}{831} = 3.9$$

Journal Impact Factor Trend 2022

Export



View all years

Journal Impact Factor contributing items

Exp

Citable items (831) | Citing Sources (961)

TITLE	CITATION COUNT
The journal coverage of Web of Science, Scopus and Dimensions: A comparative analysis	118
A tale of two databases: the use of Web of Science and Scopus in academic papers	106
Google Scholar, Microsoft Academic, Scopus, Dimensions, Web of Science, and OpenCitations' COCI: a multidisciplinary comparis…	98
Publication patterns' changes due to the COVID-19 pandemic: a longitudinal and short-term scientometric analysis	32
International collaboration during the COVID-19 crisis: autumn 2020 developments	30
Preliminary analysis of COVID-19 academic information patterns: a call for open science in the times of closed borders	29
How scientific research reacts to international public health emergencies: a global analysis of response patterns	27
'Are principals instructional leaders yet?' A science map of the knowledge base on instructional leadership, 1940-2018	24

Citation distribution

The Citation Distribution shows the frequency with which items published in the year or two years prior were cited in the JCR data year (i.e., the component of the calculation of the JIF). The graph has similar functionality as the JIF Trend graph, including hover-over data descriptions for each data point, and an interactive legend where each data element's legend can be used as a toggle. You can view Articles, Reviews, or Non-Citable (other) items to the JIF numerator. Learn more

ARTICLE CITATION MEDIAN

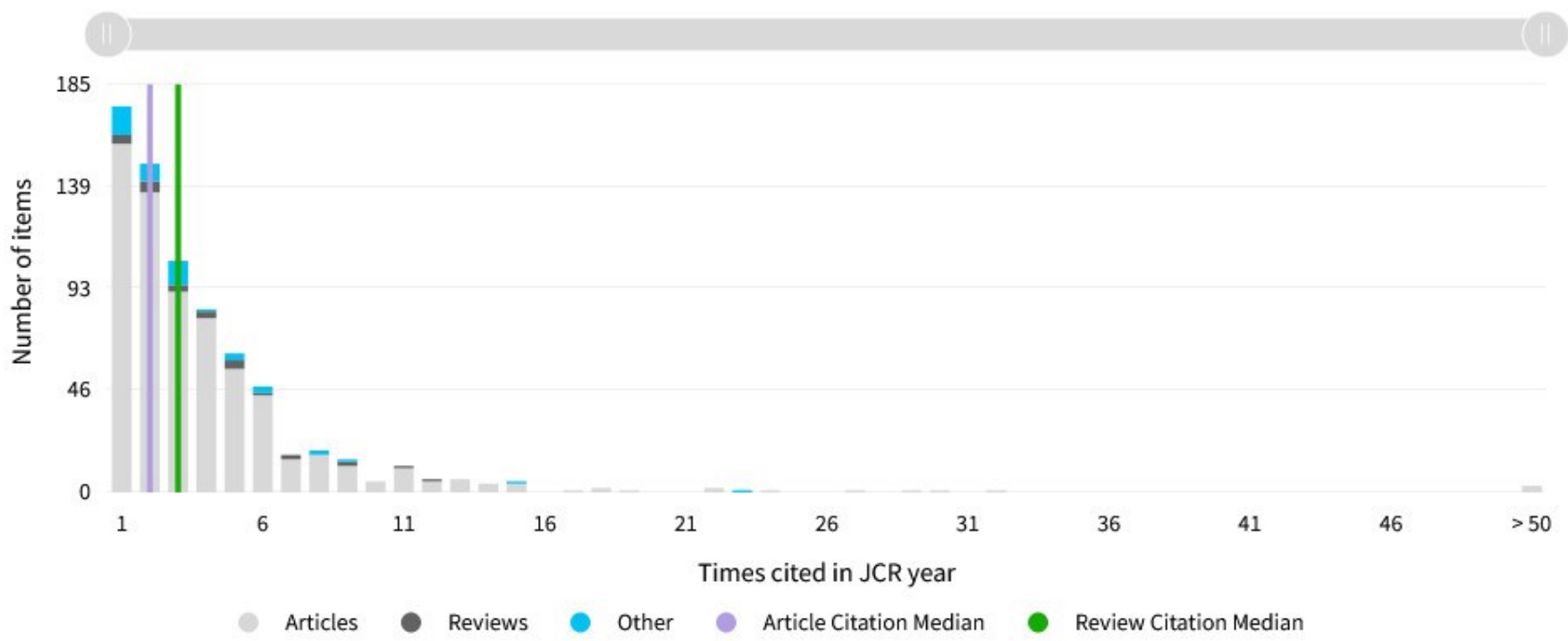
2

REVIEW CITATION MEDIAN

3

UNLINKED CITATIONS

54



TIMES CITED

0

ARTICLES

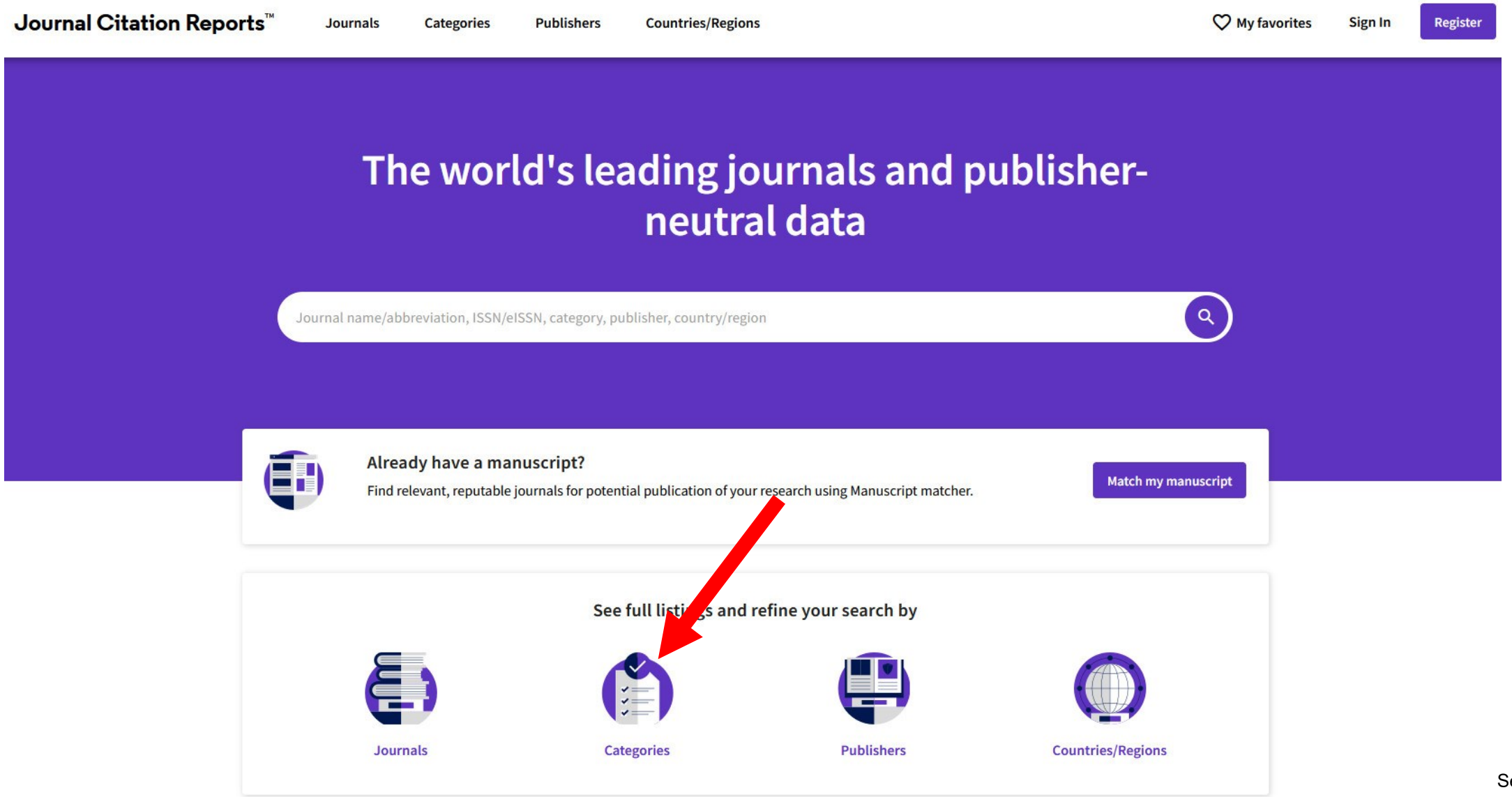
145

REVIEWS

3

OTHER

52


Journal Citation Reports™
Journals
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Register
The world's leading journals and publisher-neutral data
Journal name/abbreviation, ISSN/eISSN, category, publisher, country/region
Already have a manuscript?
Find relevant, reputable journals for potential publication of your research using Manuscript matcher.
Match my manuscript
See full listings and refine your search by
Journals
Categories
Publishers
Countries/Regions

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254 categories

See all 21 Groups

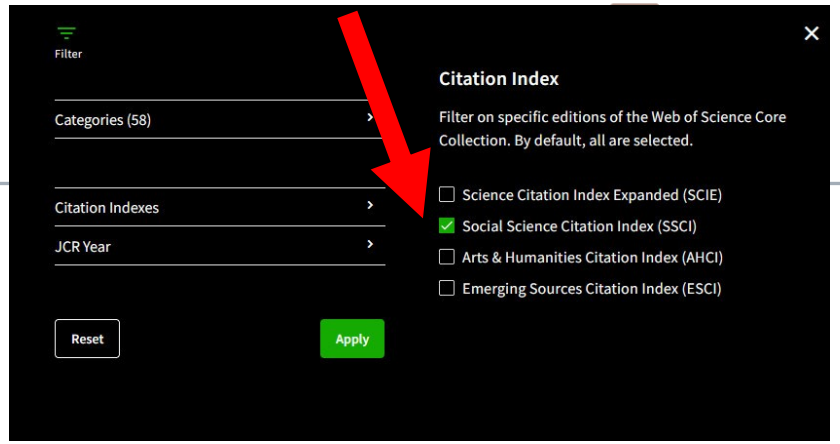
Journal name/abbreviation, ISSN/eISSN, category, publisher, country/region

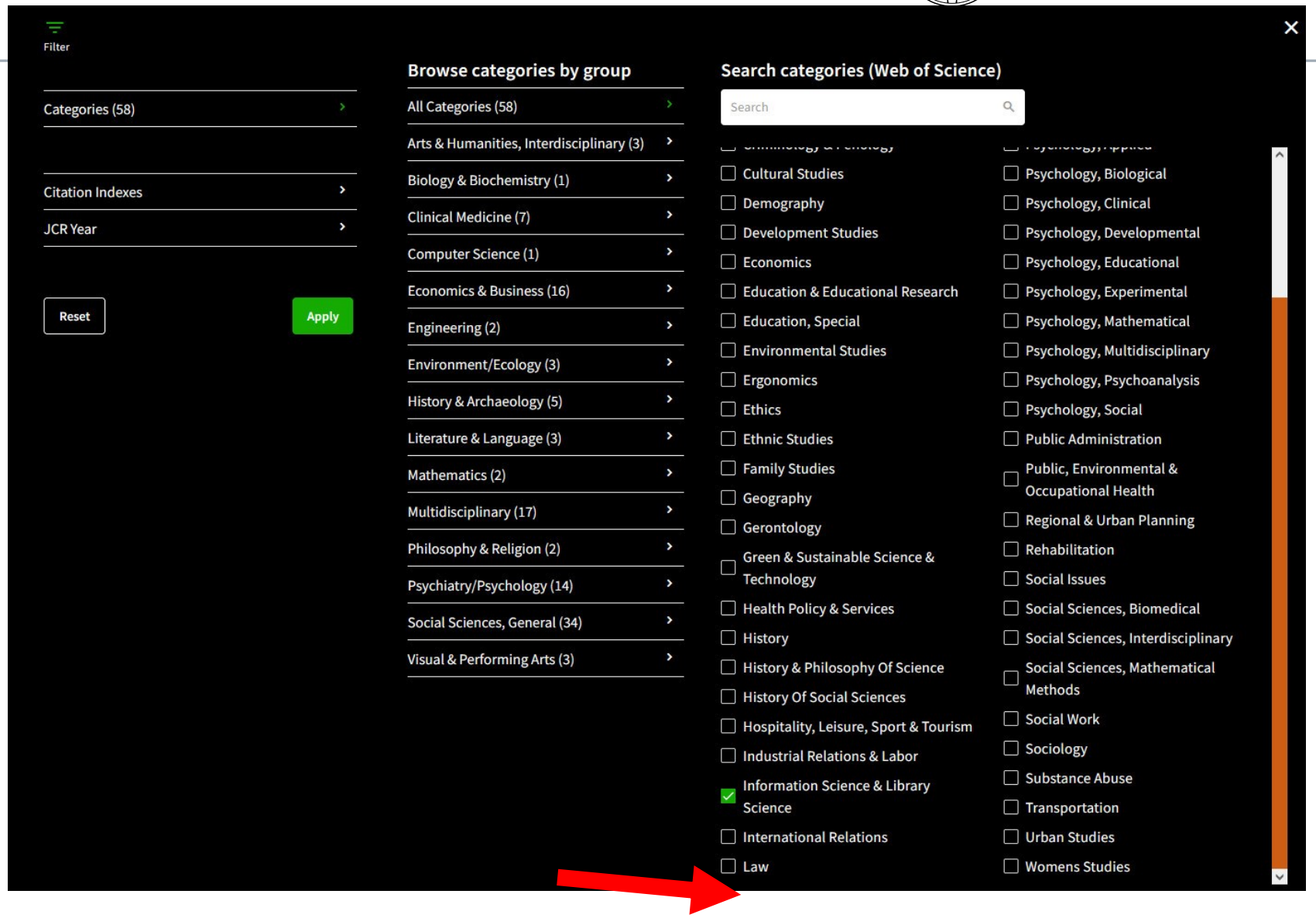
Export

Customize

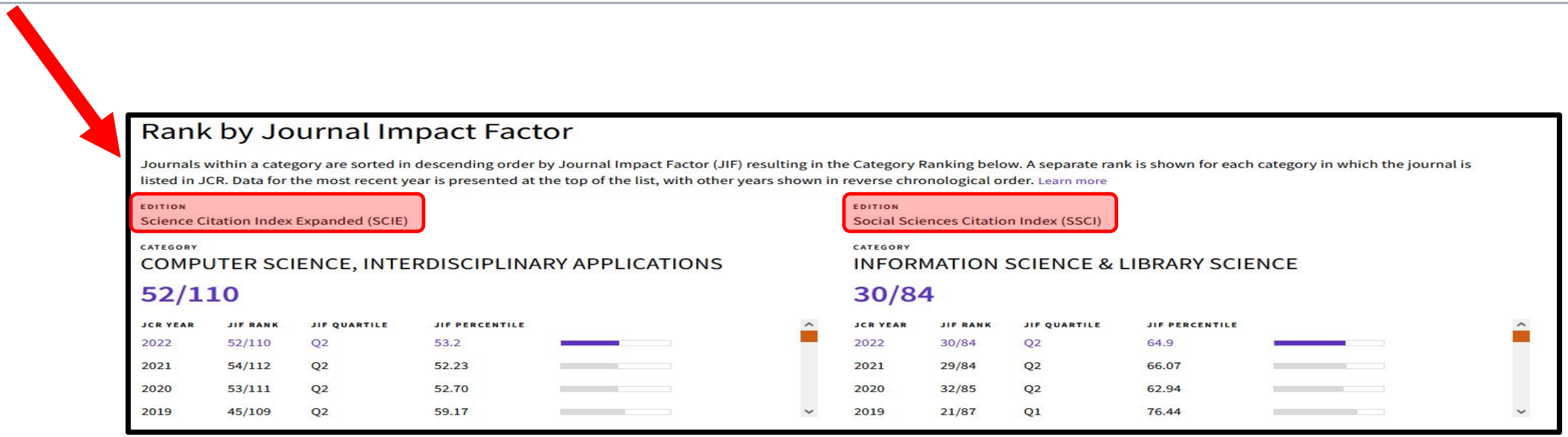
Filter

Category	Group	Edition	# of journals	Citable Items	Total Citations	Median impact factor
EDUCATION & EDUCATIONAL RESEARCH	Multidisciplinary; Social Sciences, General	ESCI	473	18,954	172,796	N/A
ECONOMICS	Economics & Business; Social Sciences, General	SSCI	382	27,847	1,613,324	2.045
MATERIALS SCIENCE, MULTIDISCIPLINARY	Materials Science; Multidisciplinary	SCIE	346	169,440	7,246,761	3.786
MATHEMATICS	Mathematics	SCIE	333	36,491	726,095	0.963
BIOCHEMISTRY & MOLECULAR BIOLOGY	Biology & Biochemistry; Chemistry	SCIE	297	81,562	5,450,719	4.212
HISTORY	History & Archaeology	AHCI	289	7,809	86,543	N/A
PHARMACOLOGY & PHARMACY	Biology & Biochemistry; Chemistry; Clinical Medicine	SCIE	279	59,278	2,577,993	3.580
ENVIRONMENTAL SCIENCES	Biology & Biochemistry; Multidisciplinary	SCIE	279	126,235	4,590,153	3.692


Filter
Categories (58)
Citation Indexes
JCR Year
Reset
Apply
Citation Index
Filter on specific editions of the Web of Science Core Collection. By default, all are selected.
Science Citation Index Expanded (SCIE)
Social Science Citation Index (SSCI)
Arts & Humanities Citation Index (AHCI)
Emerging Sources Citation Index (ESCI)


Filter
Categories (58)
Citation Indexes
JCR Year
Reset
Apply
Browse categories by group
All Categories (58)
Arts & Humanities, Interdisciplinary (3)
Biology & Biochemistry (1)
Clinical Medicine (7)
Computer Science (1)
Economics & Business (16)
Engineering (2)
Environment/Ecology (3)
History & Archaeology (5)
Literature & Language (3)
Mathematics (2)
Multidisciplinary (17)
Philosophy & Religion (2)
Psychiatry/Psychology (14)
Social Sciences, General (34)
Visual & Performing Arts (3)
Search categories (Web of Science)
Search
Cultural Studies
Demography
Development Studies
Economics
Education & Educational Research
Education, Special
Environmental Studies
Ergonomics
Ethics
Ethnic Studies
Family Studies
Geography
Gerontology
Green & Sustainable Science & Technology
Health Policy & Services
History
History & Philosophy Of Science
History Of Social Sciences
Hospitality, Leisure, Sport & Tourism
Industrial Relations & Labor
Information Science & Library Science
International Relations
Law
Psychology, Biological
Psychology, Clinical
Psychology, Developmental
Psychology, Educational
Psychology, Experimental
Psychology, Mathematical
Psychology, Multidisciplinary
Psychology, Psychoanalysis
Psychology, Social
Public Administration
Public, Environmental & Occupational Health
Regional & Urban Planning
Rehabilitation
Social Issues
Social Sciences, Biomedical
Social Sciences, Interdisciplinary
Social Sciences, Mathematical Methods
Social Work
Sociology
Substance Abuse
Transportation
Urban Studies
Womens Studies

Journal name	ISSN	eISSN	Category	Total Citations	2022 JIF	JIF Quartile	2022 JCI	% of OA Gold
Information Technology for Development	0268-1102	1554-0170	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	1,554	4.8	Q2	1.24	15.50 %
Journal of Global Information Management	1062-7375	1533-7995	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	1,414	4.7	Q2	1.20	90.56 %
Information Technology & People	0959-3845	1758-5813	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	3,104	4.4	Q2	1.28	6.48 %
JOURNAL OF HEALTH COMMUNICATION	1081-0730	1087-0415	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	6,850	4.4	Q2	1.21	7.60 %
International Journal of Computer-Supported Collaborative Learning	1556-1607	1556-1615	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	1,166	4.3	Q2	1.85	37.93 %
Profesional de la Informacion	1386-6710	1699-2407	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	2,530	4.2	Q2	1.12	18.40 %
OCIAL SCIENCE COMPUTER VIEW	0894-4393	1552-8286	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	3,645	4.1	Q2	1.41	16.72 %
MIS Q erly Executive	1540-1960	1540-1979	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	1,449	4.1	Q2	1.20	0.00 %
SCIENTOMETRICS	0138-9130	1588-2861	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	20,613	3.9	Q2	0.86	26.71 %
Health Information and Libraries Journal	1471-1834	1471-1842	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	2,032	3.8	Q2	1.01	15.44 %
Journal of Informetrics	1751-1577	1875-5879	INFORMATION SCIENCE & LIBRARY SCIENCE - SSCI	6,482	3.7	Q2	1.01	15.75 %



Rank by Journal Impact Factor

Journals within a category are sorted in descending order by Journal Impact Factor (JIF) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order. Learn more

EDITION
Science Citation Index Expanded (SCIE)

CATEGORY
COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS

52/110

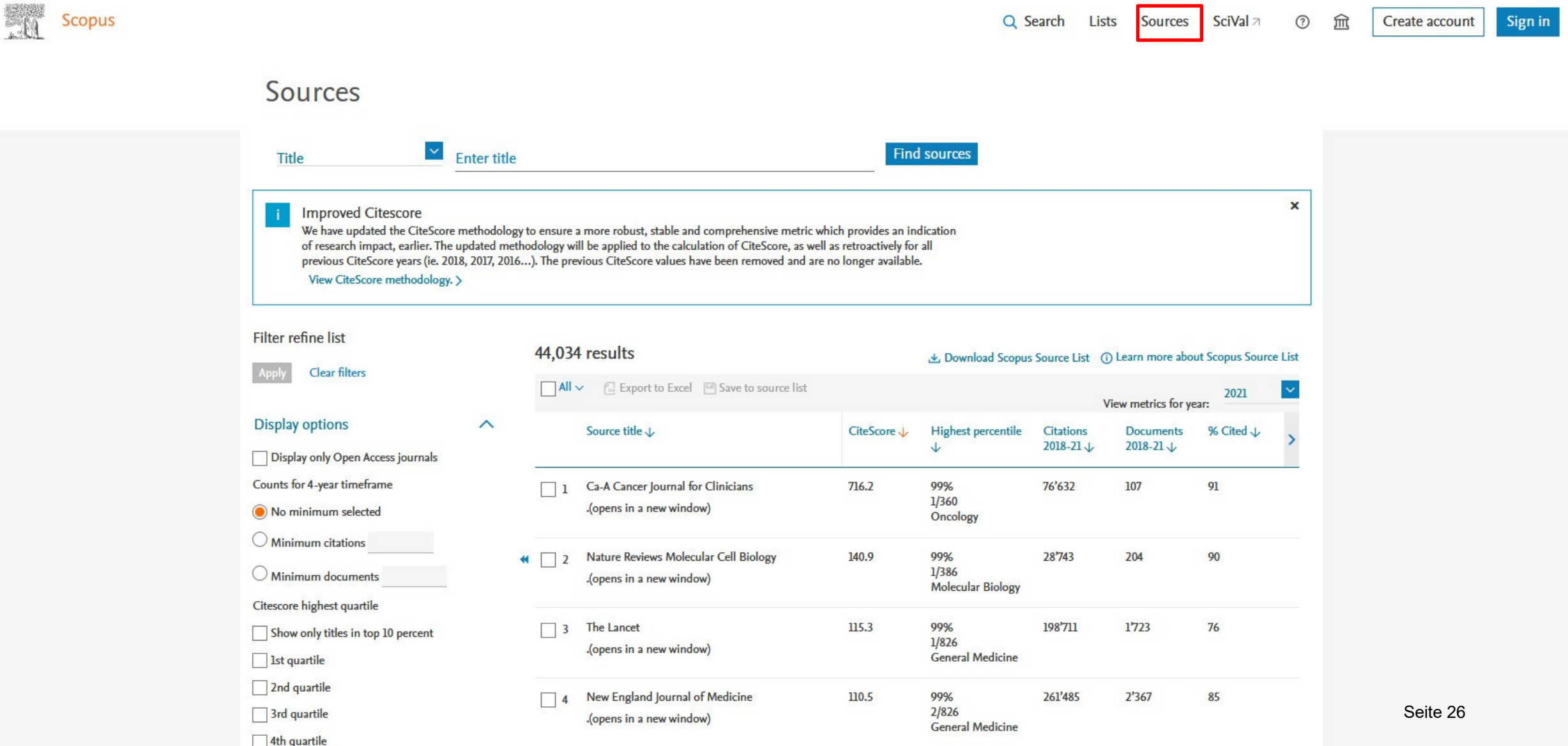
JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
2022	52/110	Q2	53.2
2021	54/112	Q2	52.23
2020	53/111	Q2	52.70
2019	45/109	Q2	59.17

EDITION
Social Sciences Citation Index (SSCI)

CATEGORY
INFORMATION SCIENCE & LIBRARY SCIENCE

30/84

JCR YEAR	JIF RANK	JIF QUARTILE	JIF PERCENTILE
2022	30/84	Q2	64.9
2021	29/84	Q2	66.07
2020	32/85	Q2	62.94
2019	21/87	Q1	76.44


Scopus
Search
Lists
Sources
SciVal
Create account
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Sources
Title
Enter title
Find sources
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
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Display only Open Access journals
Counts for 4-year timeframe
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Minimum citations
Minimum documents
Citescore highest quartile
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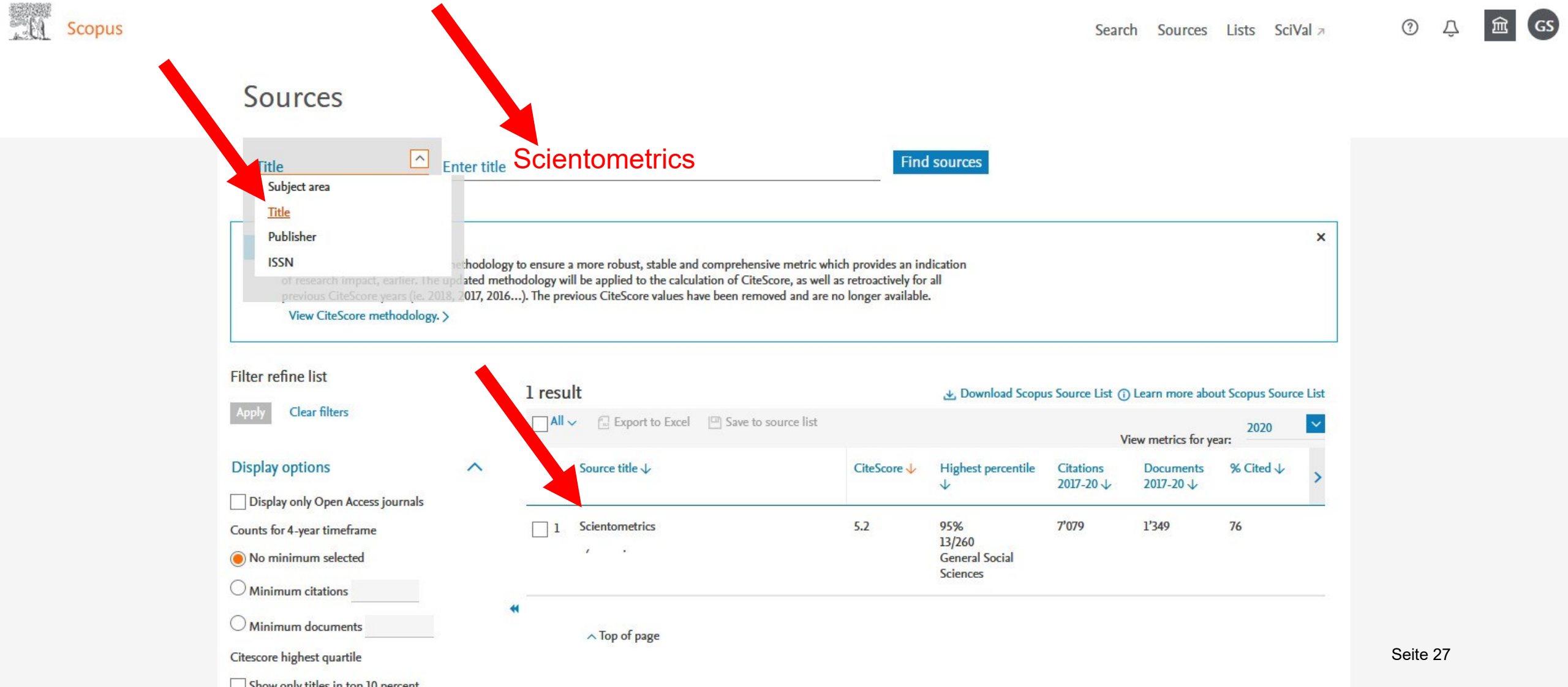
2021
Source title
CiteScore
Highest percentile
Citations 2018-21
Documents 2018-21
% Cited
1 Ca-A Cancer Journal for Clinicians .(opens in a new window) 716.2 99% 1/360 Oncology 76'632 107 91
2 Nature Reviews Molecular Cell Biology .(opens in a new window) 140.9 99% 1/386 Molecular Biology 28'743 204 90
3 The Lancet .(opens in a new window) 115.3 99% 1/826 General Medicine 198'711 1'723 76
4 New England Journal of Medicine .(opens in a new window) 110.5 99% 2/826 General Medicine 261'485 2'367 85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Title
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Scientometrics
Find sources
Subject area
Title
Publisher
ISSN
hodology to ensure a more robust, stable and comprehensive metric which provides an indication
of research impact, earlier. The upd ated 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.
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Display only Open Access journals
Counts for 4-year timeframe
No minimum selected
Minimum citations
Minimum documents
Citescore highest quartile
1 result
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2020
Source title
CiteScore
Highest percentile
Citations 2017-20
Documents 2017-20
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1
Scientometrics
5.2
95%
13/260
General Social Sciences
7'079
1'349
76
Top of page

Source details

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Scientometrics

Scopus coverage years: from 1978 to Present
Publisher: Akademiai Kiado
ISSN: 0138-9130 E-ISSN: 1588-2861
Subject area: Social Sciences: General Social Sciences | Social Sciences: Library and Information Sciences | Computer Science: Computer Science Applications
Source type: Journal

View all documents > | Set document alert | Save to source list .(opens in a new window)

CiteScore 2022
6.0

SJR 2022
1.019

SNIP 2022
1.520

CiteScore | CiteScore rank & trend | Scopus content coverage

Improved CiteScore methodology
CiteScore 2022 counts the citations received in 2019-2022 to articles, reviews, conference papers, book chapters and data papers published in 2019-2022, and divides this by the number of publications published in 2019-2022. Learn more >

CiteScore 2022

6.0 = 8'321 Citations 2019 - 2022 / 1'383 Documents 2019 - 2022

Calculated on 05 May, 2023

CiteScoreTracker 2023

7.2 = 9'926 Citations to date / 1'378 Documents to date

Last updated on 05 April, 2024 - Updated monthly

CiteScore rank 2022

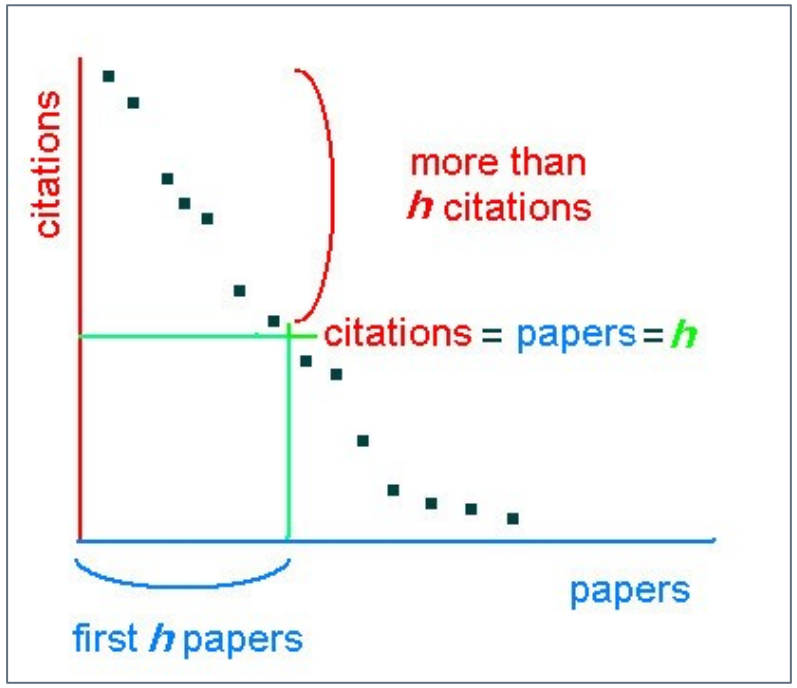
Category	Rank	Percentile
Social Sciences — General Social Sciences	#18/262	93rd
Social Sciences — Library and Information Sciences	#33/266	87th
Computer Science — Computer Science Applications	#207/792	73rd

2. Analysen basierend auf Zitationen

a) Populäre bibliometrische Indikatoren
   - **h-Index**
   - Journal Impact Factor

h-Index (Hirsch-Index)

- Auch Hirsch-Faktor, Hirsch-Koeffizient oder h-Zahl
- Wurde 2005 vom argentinischen Physiker **Jorge E. Hirsch** vorgeschlagen, um die wissenschaftliche Leistung eines Autors zu bewerten.
- Mass zum Vergleich der **Lebenszeitleistung** von Forschern



Ein h-Index von 10 bedeutet zum Beispiel, dass 10 Veröffentlichungen eines Wissenschaftlers mindestens 10 Mal zitiert wurden.

Hirsch JE (2005) An index to quantify an individual's scientific research output. Proceedings of the National Academy of Sciences 102:16569-16572, doi: 10.1073/pnas.0507655102

Ermittlung des h-Indexes am Beispiel von Prof. Christian Berndt in Scopus

Author *h*-index : 15 View *h*-graph

Sort on: Citation count (descending)

Page Remove

	Documents	Citations	<2018	2018	2019	2020	2021	2022	Subtotal	>2022	Total
		Total	492	102	79	113	147	48	489	0	981
1	Geographies of circulation and exchange: Constructions of ma...	2009	96	21	7	13	22	4	67		163
2	Spatial proximity effects and regional equity gaps in the ve...	2005	63	6	10	8	11	4	39		102
3	Geographies of markets: Materials, morals and monsters in mo...	2011	47	12	3	7	13	2	37		84
4	Geographies of Marketization	2012	26	12	4	9	12	3	40		66
5	Performative regional (dis)integration: Transnational market...	2011	29	10	8	8	6	1	33		62
6	Behavioural economics, experimentalism and the marketization...	2015	9	7	11	11	15	7	51		60
7	Venture capital programmes in the UK and Germany: In what se...	2005	47	4	2	1	2		9		56
8	Neoliberal austerity and the marketisation of elderly care	2018	3	3	7	13	12	5	40		43
9	Geographies of circulation and exchange III: The great crisi...	2013	15	6	3	10	6	3	28		43
10	Market, metrics, morals: The Social Impact Bond as an emergi...	2018		1	7	14	16	4	42		42
11	Dis/articulating producers, markets, and regions: New direct...	2013	11	6	8	4	5	2	25		36
12	Assembling market b/orders: Violence, dispossession, and eco...	2013	14	9	2	2	2	2	17		31
13	The rescaling of labour regulation in Germany: From national...	2000	21				1		1		22
14	[Institutions, regulation and geography, Institutionen, regu...	1999	21						0		21
15	Ruhr firms between dynamic change and structural persistence...	1998	18		1				1		19
16	[A market that cares. How transnational care agencies legiti...	2014	1	3	3	3	4		13		14
17	Struggling for the Moral Market: Economic Knowledge, Diverse...	2019				3	6	3	12		12
18	[Cultural geographies of economies, Kulturelle Geographien d...	2005	12						0		12
19	El Paso del Norte... modernization utopias, othering and man...	2003	11		1				1		12
20	[Labour geography: Towards an inter-disciplinary research ag...	2002	9						0		9

15 Veröffentlichungen wurden mindestens 15 Mal zitiert

Quantitative Bewertung von Wissenschaftlern

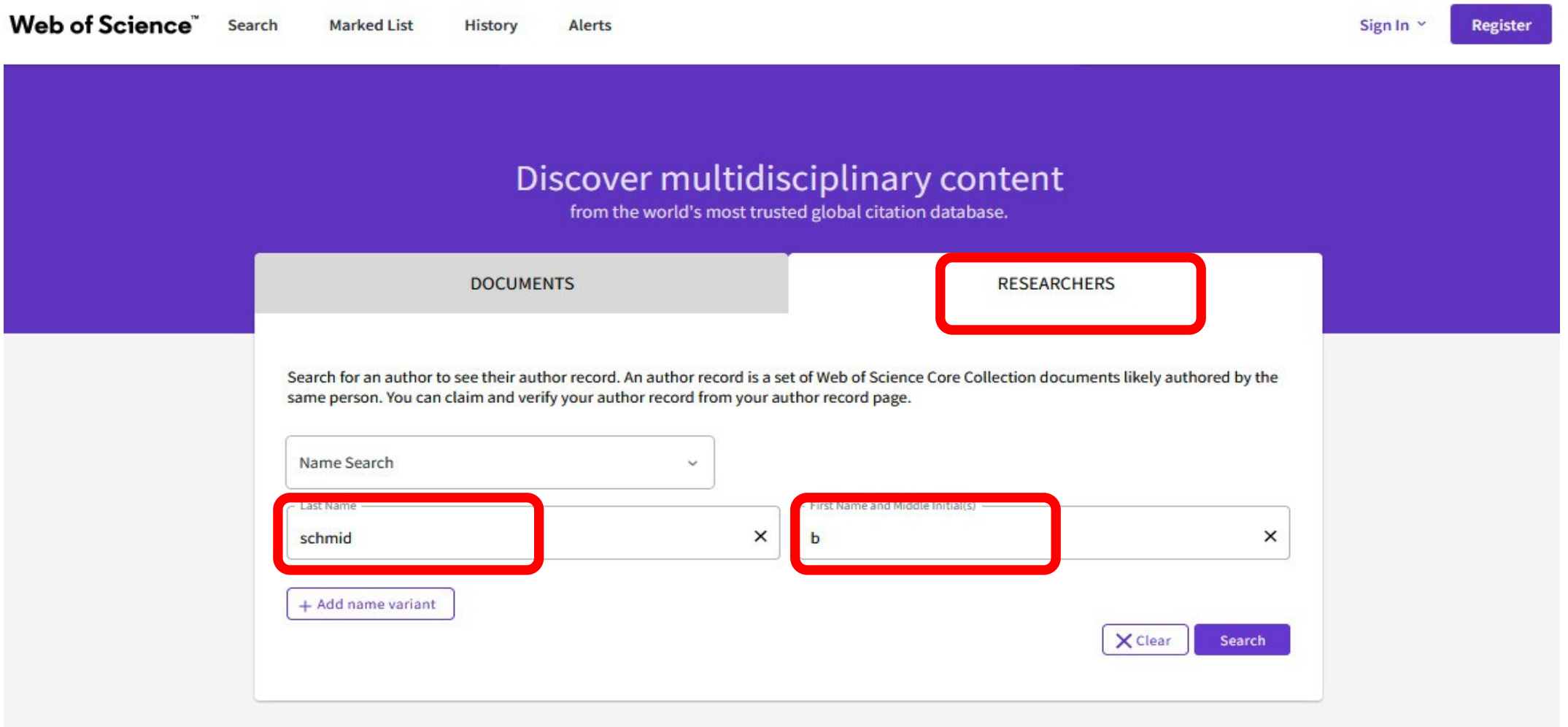
- Anzahl Publikationen
- Wie oft wurde ein Wissenschafter zitiert (mit/ohne Selbstzitationen self citations)
- h-Index

- Web of Science Core Collection
- Scopus
- (Google Scholar)

➔ Author Search!

Autoren Indikatoren in WoS Core Collection

Wähle Researchers!



Autoren Profil

Bernhard Schmid

(Schmid, Bernhard)

Highly Cited Researcher Top peer reviewer

University of Zurich

Web of Science ResearcherID: C-8625-2009

Published names	Schmid, Bernhard Schmid, B SCHMID, B Schmid, B.
Published Organizations	Research Center Julich, Peking University, University of Zurich Show more
Subject Categories BETA	Environmental Sciences & Ecology; Plant Sciences; Science & Technology - Other Topics; Evolutionary Biology; Forestry
Awards	Highly Cited Researcher in the field of Cross-Field - 2019 Highly Cited Researcher in the field of Environment and Ecology - 2017 Show more
Other Identifiers	https://orcid.org/0000-0002-8430-3214

Documents Peer Review

Showing 449 out of 476 publications indexed in Web of Science

Publications indexed in Web of Science (476) Non-indexed publications (22)

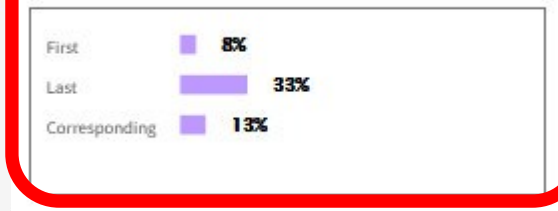
Show me Web of Science Core Collection publication only (449)

Author positions included: All Publications Date: newest first < 1 of 9 >

Plant diversity and community age stabilize ecosystem multifunctionality
Dietrich, Peter ; Ebeling, Anne ; (...); Eisenhauer, Nico
Published 2024 | GLOBAL CHANGE BIOLOGY
0 Times Cited

Impact of the PiperION Anion Exchange Membrane Thickness on the Performance of a CO_2-to-HCOOH Three-Compartment Electrolyzer
Rutjens, Bastian ; von Foerster, Konstantin ; (...); Eichel, Ru"diger-A.
Published 2024 | INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH
0 Times Cited

Author Position



Metrics

Open dashboard

Profile summary

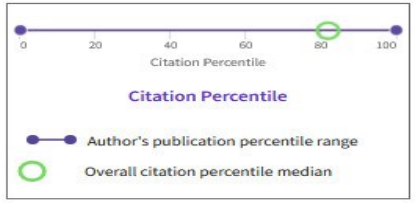
498	Total documents
476	Publications indexed in Web of Science
449	Web of Science Core Collection publications
4	Preprints
0	Dissertations or Theses
22	Non-indexed publications
257	Verified peer reviews
12	Verified editor records

Web of Science Core Collection metrics

97 H-Index	449 Publications
44,012 Sum of Times Cited	27,999 Citing Articles
23 Sum of Times Cited by Patents	23 Citing Patents

View citation report

Author Impact Beamplot Summary



Publications

448
Total

From 1900 to 2024

Citing Articles

27,995 Analyze
Total

27,608 Analyze
Without self-citations

Times Cited

44,006
Total

98.23
Average per item

41,386
Without self-citations

97
H-Index

Zitationsbericht

Times Cited and Publications Over Time

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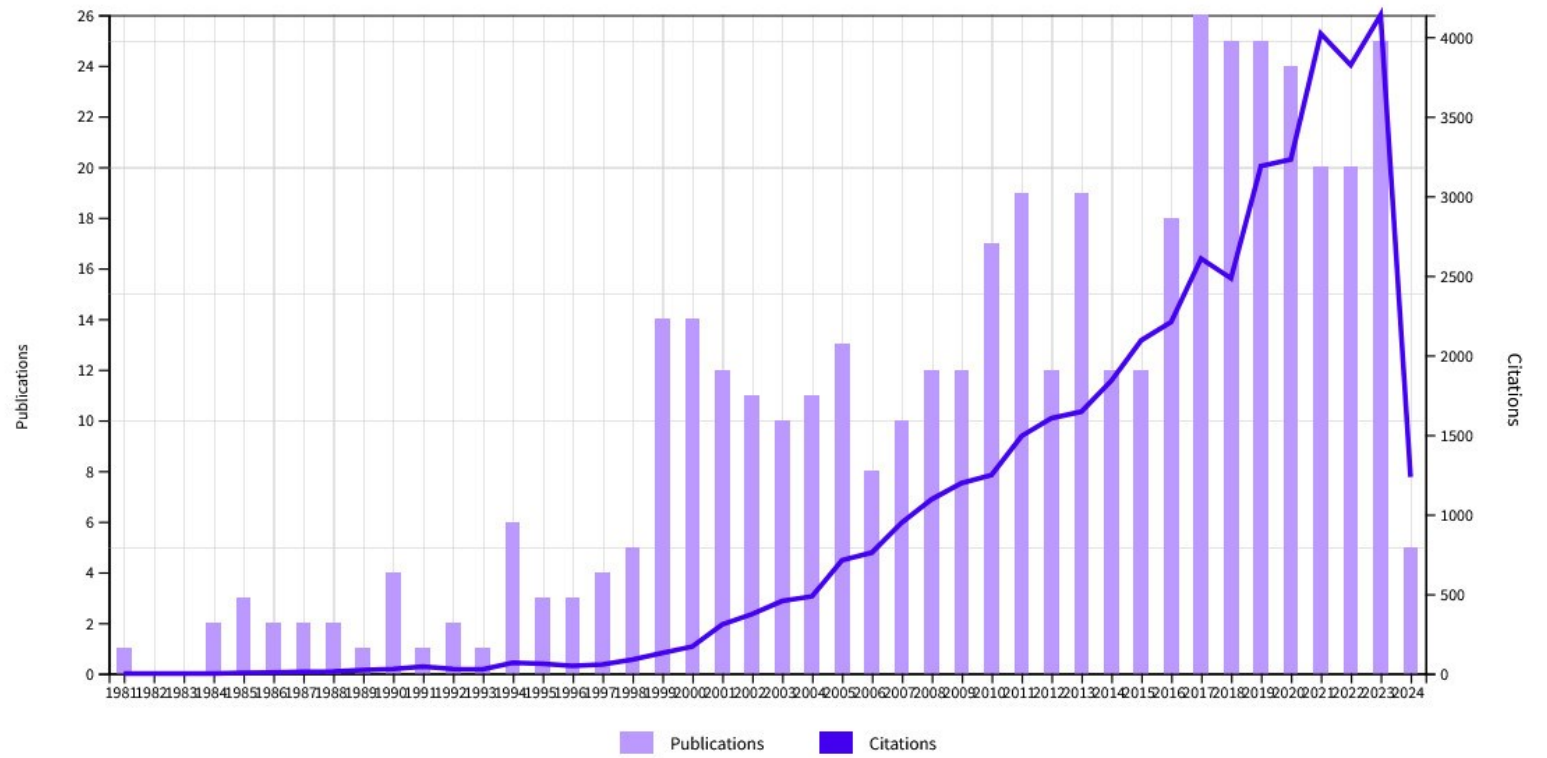
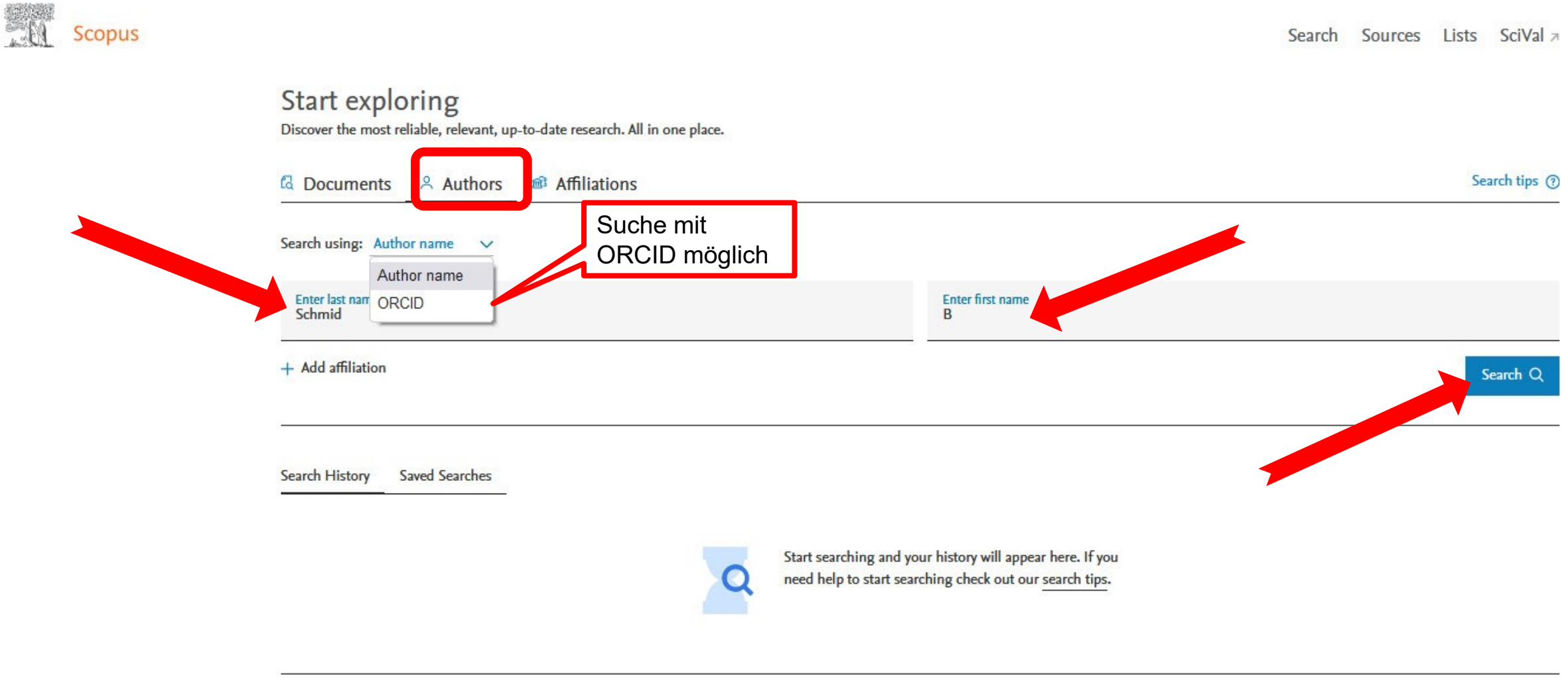
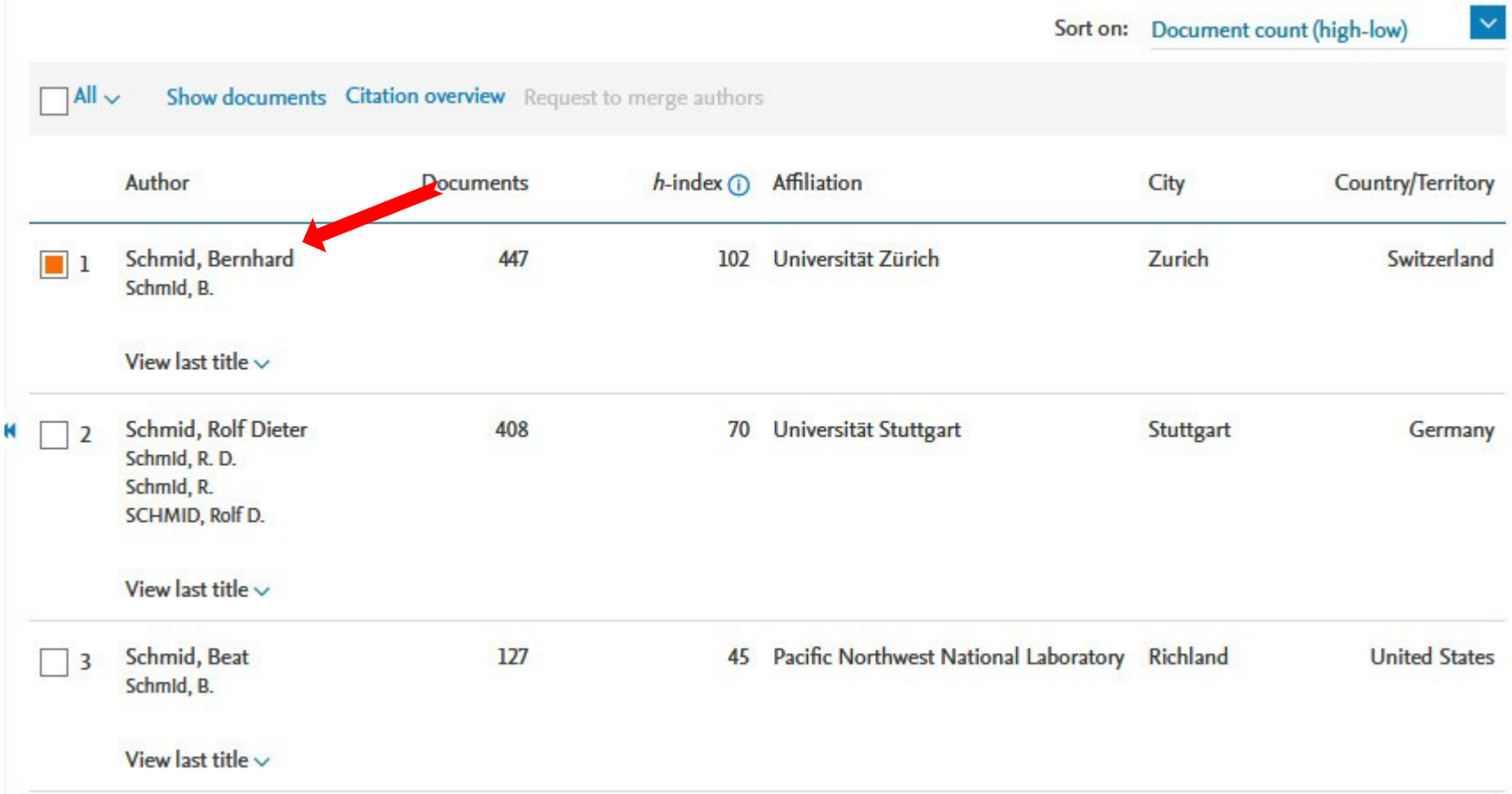


Authors search (Researcher)!



Autoren Profil



Sort on: Document count (high-low)

All | Show documents | Citation overview | Request to merge authors

	Author	Documents	h-index	Affiliation	City	Country/Territory
1	Schmid, Bernhard Schmid, B.	447	102	Universität Zürich	Zurich	Switzerland
	View last title					
2	Schmid, Rolf Dieter Schmid, R. D. Schmid, R. SCHMID, Rolf D.	408	70	Universität Stuttgart	Stuttgart	Germany
	View last title					
3	Schmid, Beat Schmid, B.	127	45	Pacific Northwest National Laboratory	Richland	United States
	View last title					

Autoren Profil

Schmid, Bernhard

Universität Zürich, Zurich, Switzerland 7102653764 https://orcid.org/0000-0002-8430-3214 View more

47,424	447	102	
Citations by *30,681 documents*	Documents	*h*-Index View *h*-graph	View all metrics >

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Document & citation trends

Most contributed Topics 2018–2022

Ecosystem; Plant Communities; Ecosystem Stability
69 documents

Nutrient Resorption (Physiology); Phosphorus; Carbon Nitrogen Ratio
3 documents

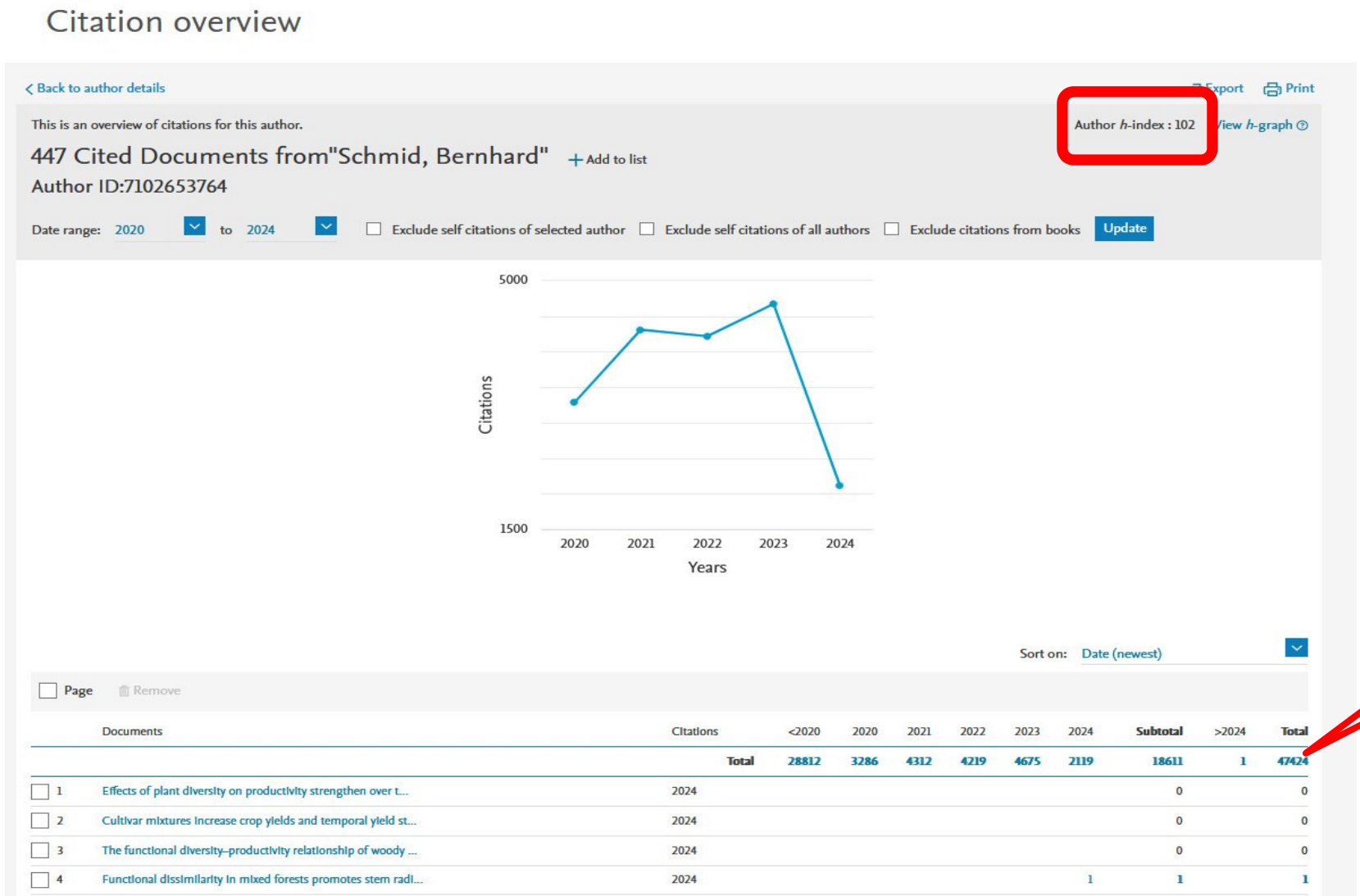
Gradient; Shrubs; Facilitation
3 documents

Analyze author output Citation overview View all Topics

447 Documents Author Metrics (New) Cited by 30,681 documents 32 Preprints 2,213 Co-Authors 32 Topics 2 Awarded Grants (Beta)

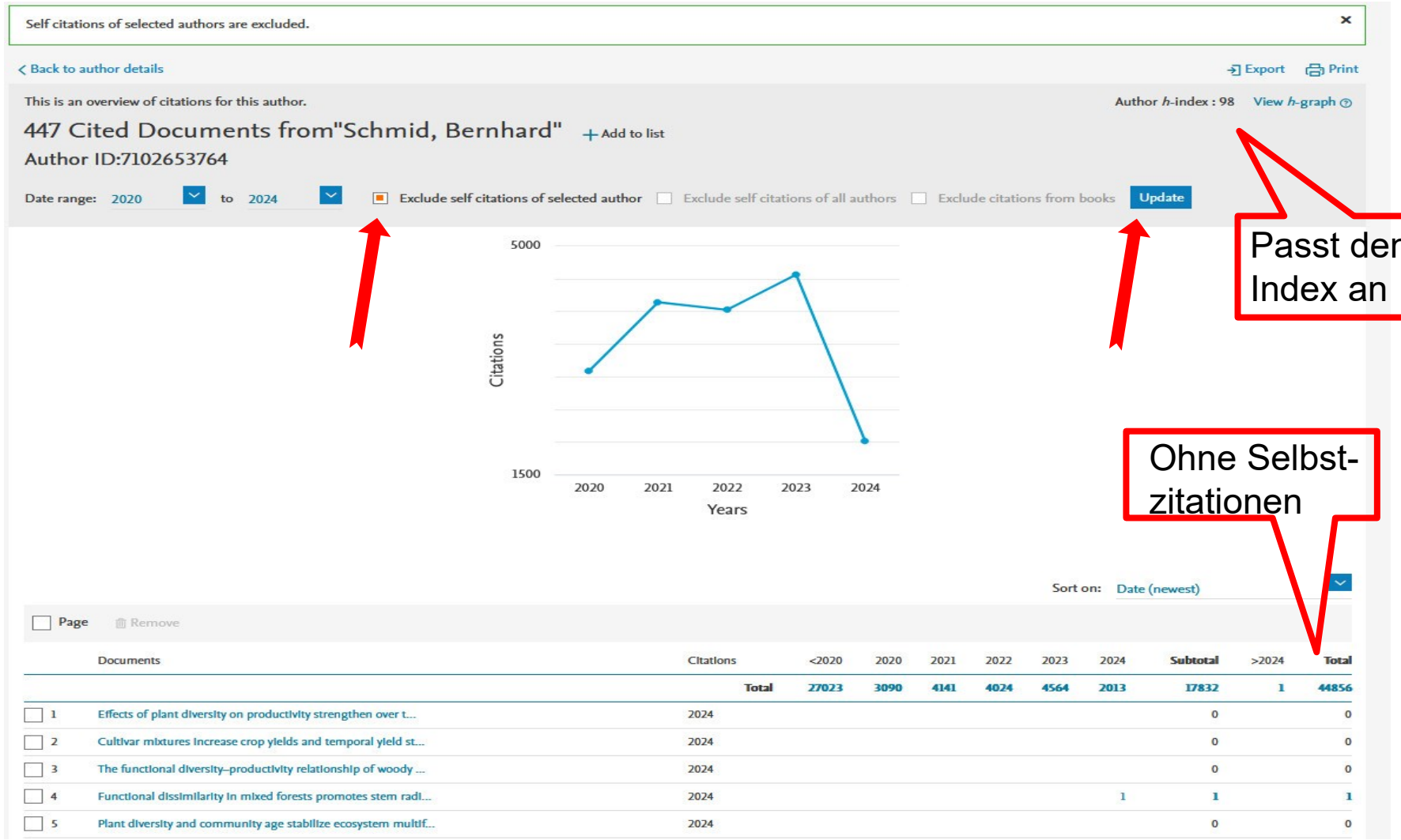
447 documents

h-Index / Anzahl Zitationen



Mit Selbst-zitationen

Anzahl Zitationen (ohne Selbstzitationen)



Vorteile des h-index

- Robuster Faktor
  - berücksichtigt nur die am häufigsten zitierten Publikationen innerhalb einer Publikationsreihe
  - Reagiert nicht auf extreme "Ausreisser" (eliminiert "One-Hit-Wunder")
  - "bestraft" Autoren, die wenig zitiert/nicht zitiert werden, aber viel veröffentlichen
- Gültigkeit
  - Positive Korrelation zwischen Peer Review und h-Index und anderen bibliometrischen Indikatoren

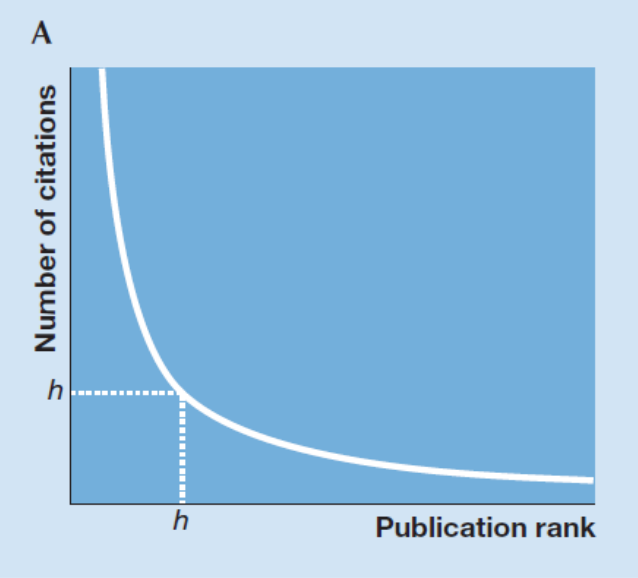
Nachteile des h-index

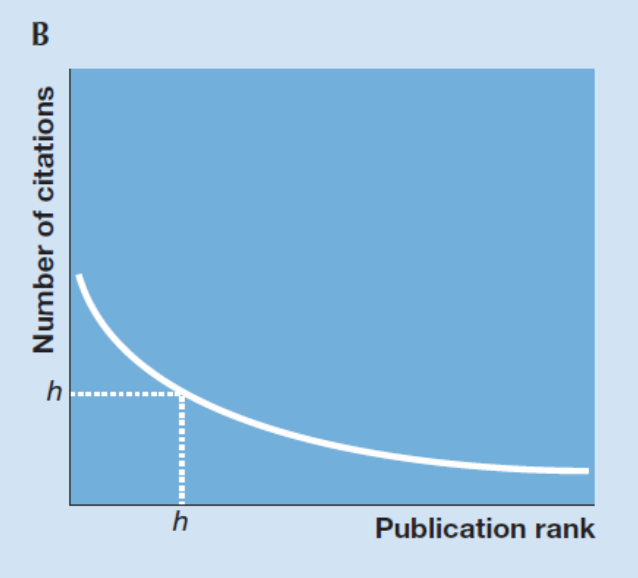
- ‘bahnbrechende' Arbeit wird nicht gebührend gewürdigt
- Beeinflusst durch die Länge der Laufbahn
  - m-Quotient (Hirsch, 2005): h-Index / Anzahl der Jahre seit der ersten Veröffentlichung.
  - Zeitgenössischer h-Index (Sidiropoulos et al., 2007): neu veröffentlicht mehr gewichtet
- Keine "h-index Standards"

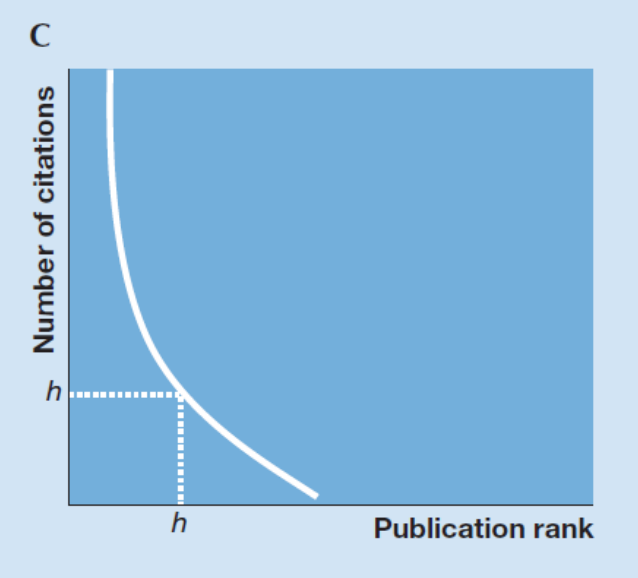
- Vergleiche nur innerhalb der gleichen Disziplin! (je nach Forschungsgebiet)

h-Graph

Gleicher h-Index hat nicht unbedingt die gleiche Bedeutung







Graphiken von Sven Hug, lic. phil., ehemaliger wissenschaflicher Mitarbeiter der Evaluationsstelle UZH

⇨ h-Graph in Scopus nützlich

3. Analysen thematischer Suchen

Ergebnisse einer thematischen Suche analysieren

Fragen:

- Wer sind die wichtigsten Player eines Fachgebiets?
  - Welche Autoren haben auf dem Fachgebiet veröffentlicht?
  - An welchen Institutionen/Organisationen wird zum Thema geforscht?
  - In welchen Ländern wird zum Thema geforscht?
- Welches sind die Core Journals des Fachgebiets?

➔ Beantwortung der Fragen mithilfe von WoS Core Collection und/oder Scopus:
Analyze (search) results

Beispiel einer komplexen Suchanfrage

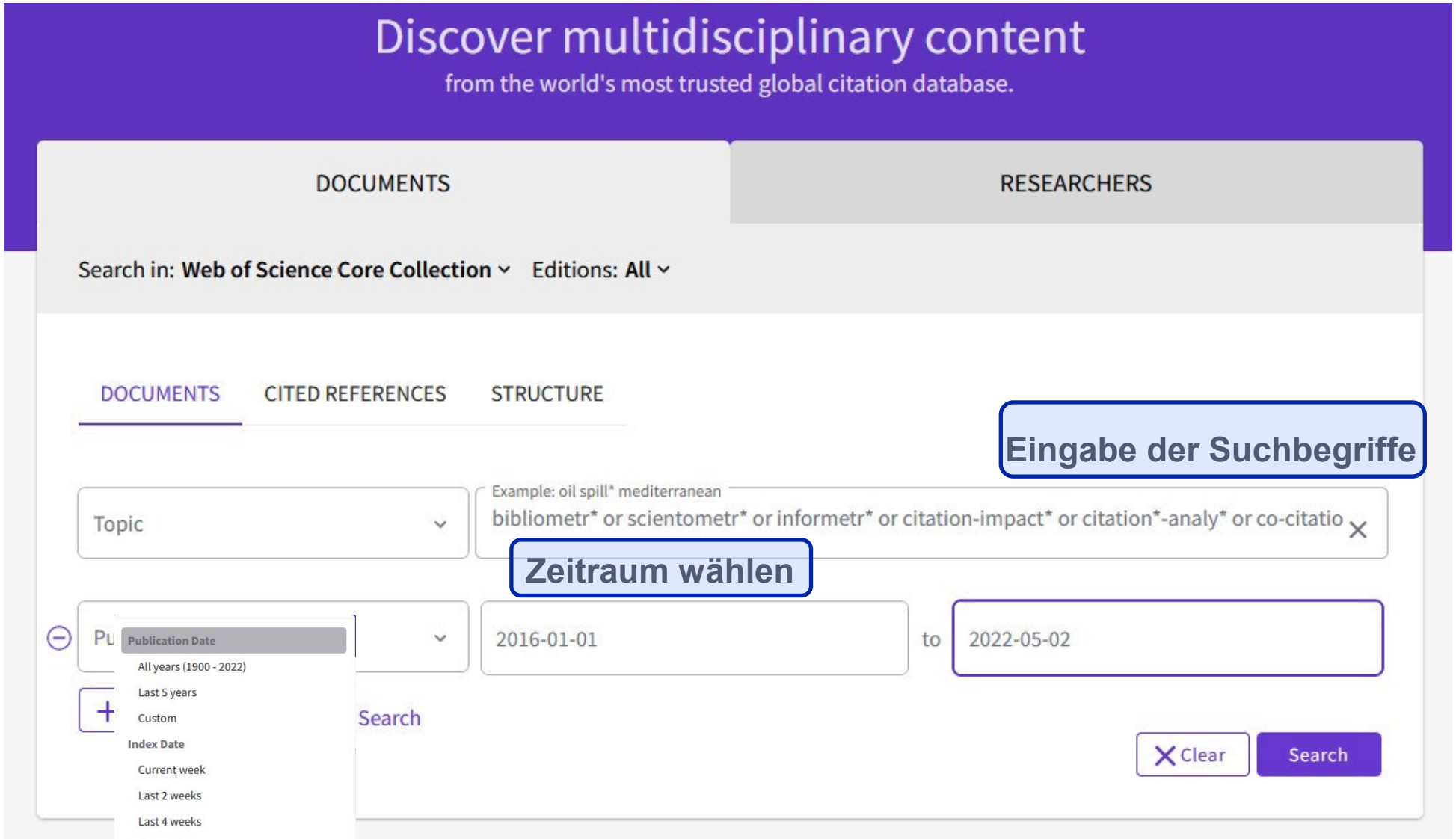
Thema: Zitationsanalyse

bibliometr* or scientometr* or informetr* or citation-impact* or citation*-analy* or co-citation* or cocitation* or crosscitation* or (impact-factor* and journal*) or coauthorship* or co-authorship* or publication-activ* or research-evaluation or research-performance or highly-cited* or mapping-of-scien* or collaboration-network* or web$metr* or h-index or hirsch-index or hirsch-type or patent-citat*
In Scopus durch * zu ersetzen

Expertensuche

Web of Science Core Collection
TS = Topic

Scopus
TITLE-ABS-KEY = Title, Abstract, Keywords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Topic
Example: oil spill* mediterranean
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Zeitraum wählen
Publication Date
2016-01-01
to
2022-05-02
All years (1900 - 2022)
Last 5 years
Custom
Index Date
Current week
Last 2 weeks
Last 4 weeks
Year to date
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26,451 results from Web of Science Core Collection for:

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Publications | You may also like...

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- Associated Data 160

Publication Years

- 2022 1,135
- 2021 6,454
- 2020 5,184
- 2019 4,414
- 2018 3,555

0/26,451 | Add To Marked List | Export | Sort by: Relevance | 1 of 530

1 **Citations analysis of publications**

Misra, DP and Ravindran, V

Mar 2021 | JOURNAL OF THE ROYAL COLLEGE OF PHYSICIANS OF EDINBURGH 51 (1) , pp.11-12

9 References

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Related records

2 **The Methodological Basis of Defining Research Trends and Fronts**

Mazov, NA; Gureev, VN and Glinskikh, VN

Oct 2020 | SCIENTIFIC AND TECHNICAL INFORMATION PROCESSING 47 (4) , pp.221-231

Enriched Cited References

The methodological and technical aspects of identifying research fronts and trends in the development of science are considered. Based on the literature data, a comparison of scientometric methods for finding research fronts was carried out: analysis of publication activity, direct citation analysis, co-citation analysis, bibliographic coupling, and content analysis. The advantages of the combi … Show more

1 Citation

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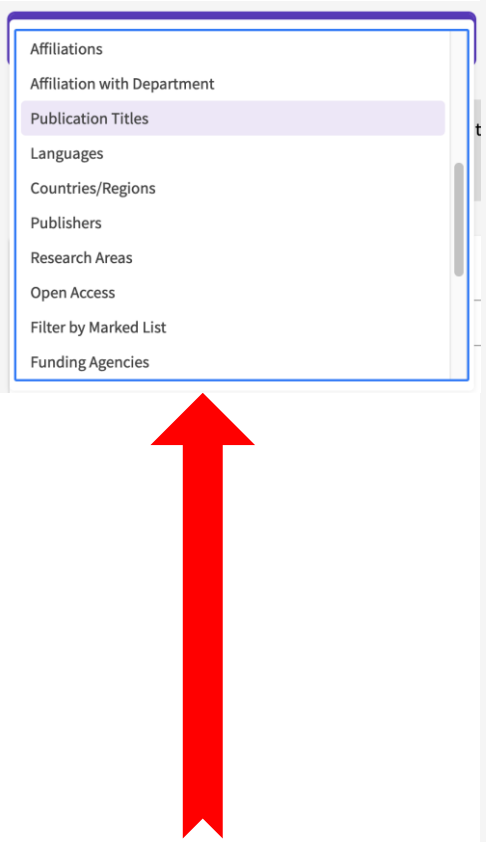

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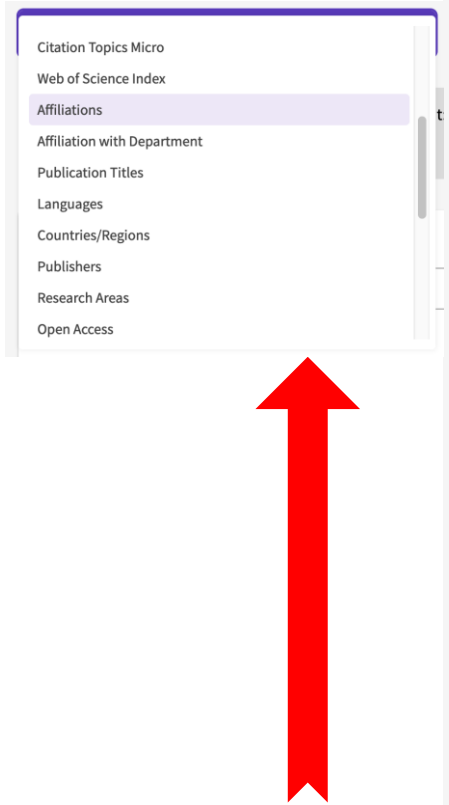

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☐	UNIVERSITY SYSTEM OF GEORGIA	330	0.736%

Analyze Results

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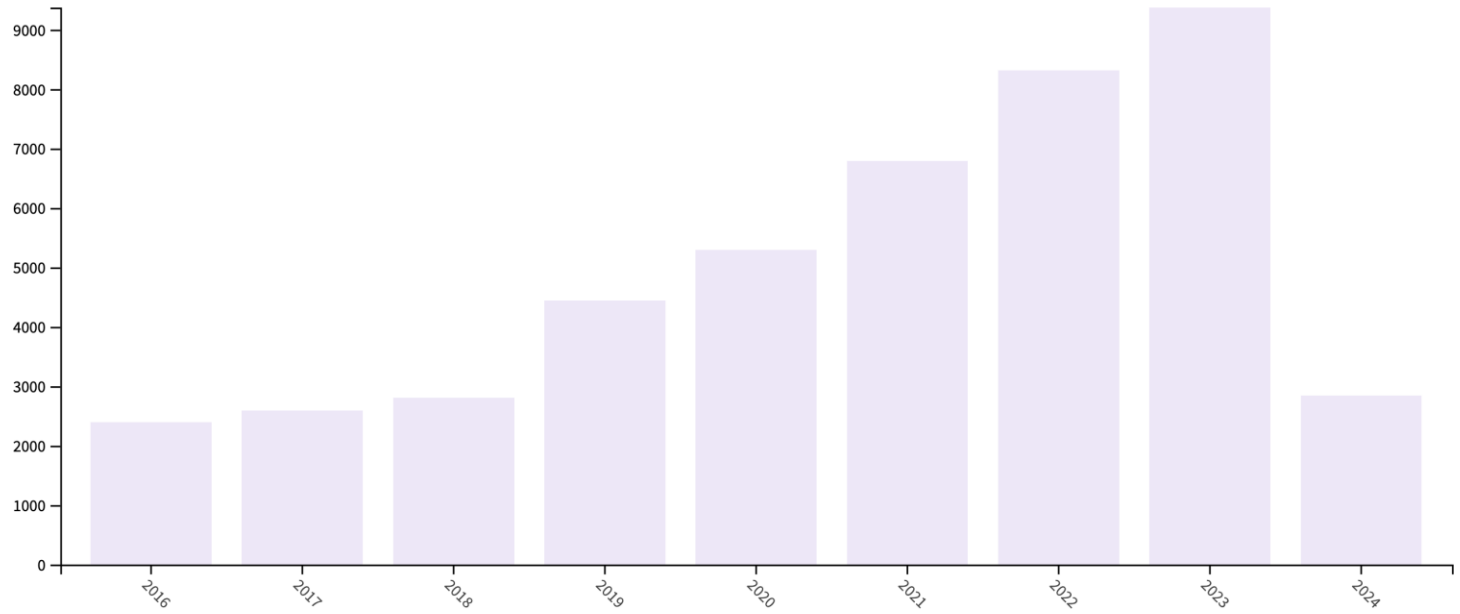

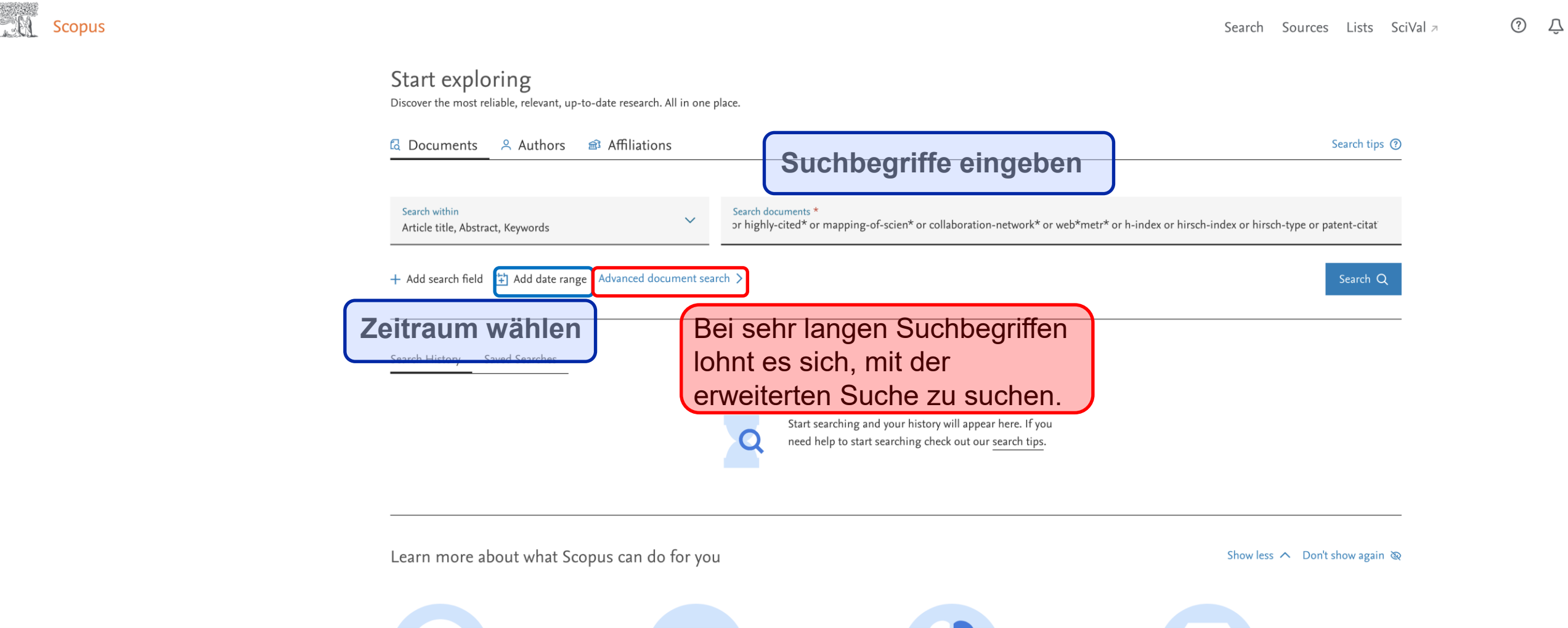
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Outline query Add Author name / Affiliation Clear form Search

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

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Year ↓	Documents ↑
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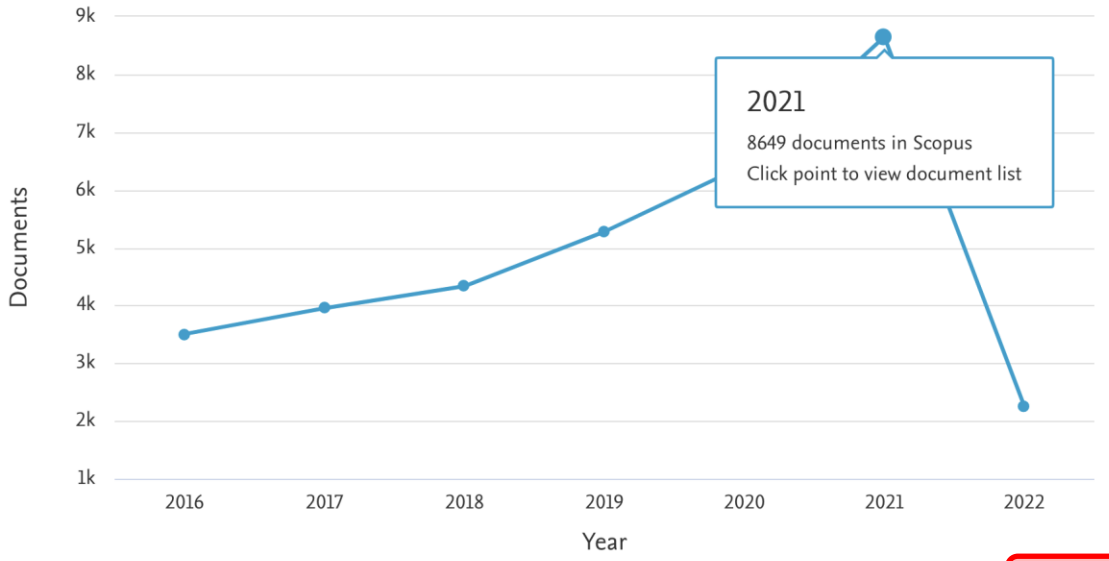
2016	3506

Documents by year



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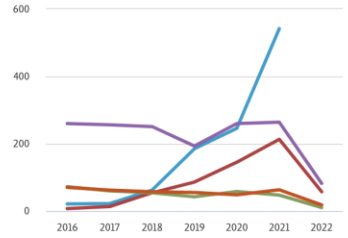
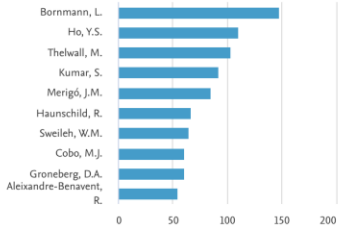
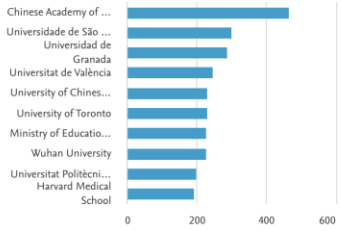


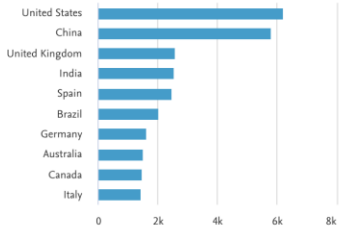
Documents by author



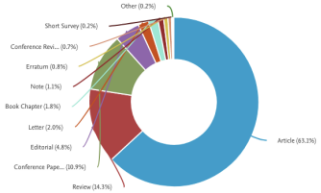
Documents by affiliation



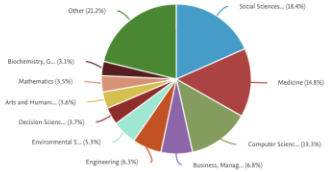
Documents by country/territory



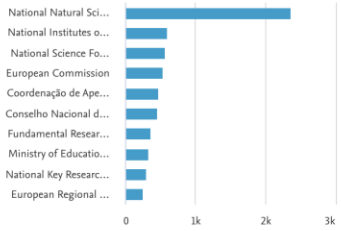
Documents by type



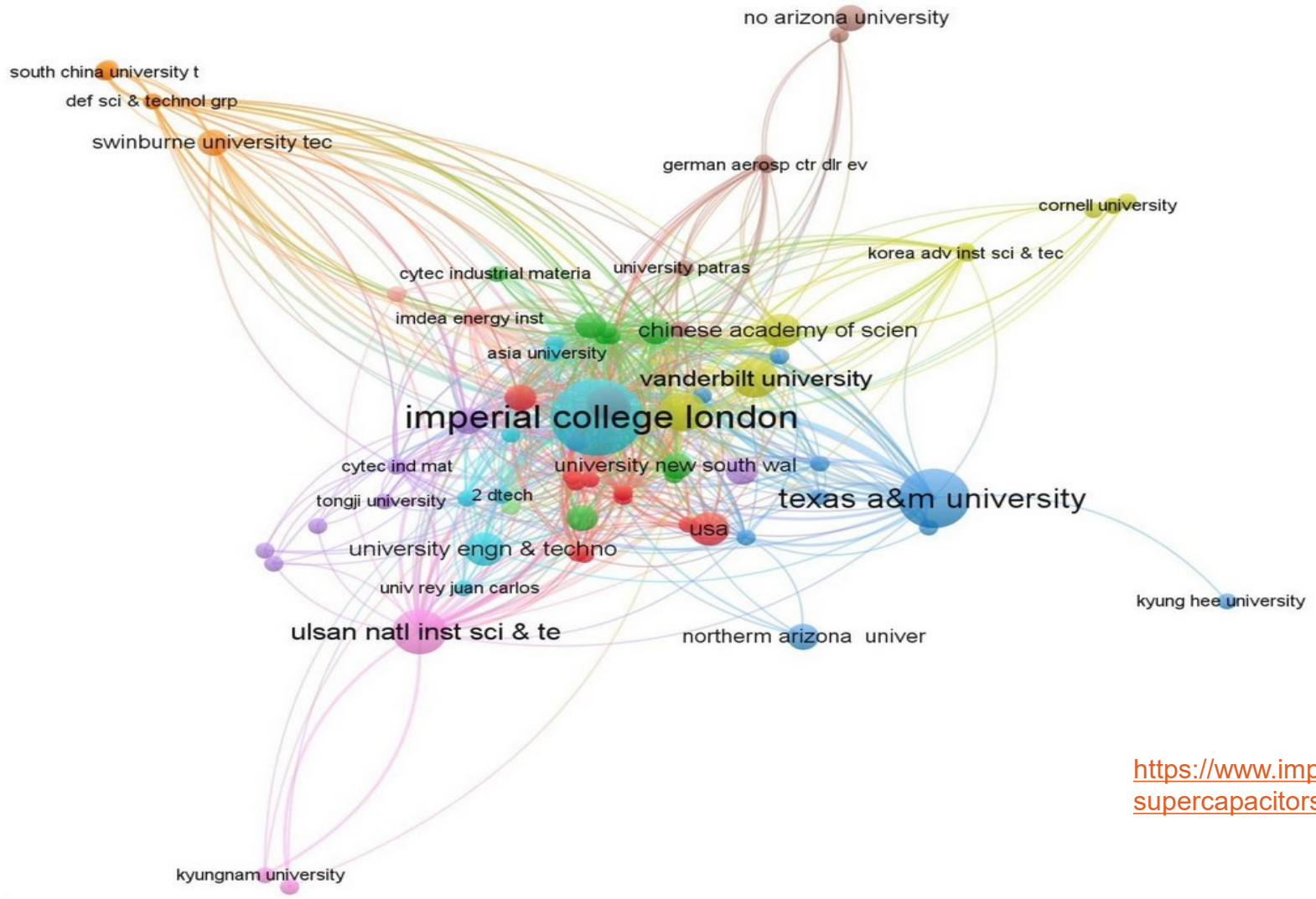
Documents by subject area



Documents by funding sponsor



The image below shows organizational networks for journal articles on structural supercapacitors. The dot size in the networks relate to the number of publications by institute, and their position relates to their frequency of citation by others.



https://www.imperial.ac.uk/structural-power-composites/structural-supercapacitors/international-landscape/

4. Anwendungen in Google Scholar und Altmetrics

Suche nach bibliometrischen Daten mit Google Scholar

My profile (erfordert ein Google-Konto)
Beispiel für ein Profil: Prof. Dr. Michael Schaepman
https://scholar.google.co.uk/citations?hl=de&user=w_DZ9_wAAAAJ&inst=13856427432203950092

Analysetools für Google Scholar :

- Scholarometer (Browser Add-on)
  http://scholarometer.indiana.edu/
- Publish or Perish (Softwareprogramm)
  http://www.harzing.com/resources/publish-or-perish

ACHTUNG: Google Scholar ist keine gepflegte Datenbank!

Michael E. Schaepman

FOLGEN

President and Professor of Remote Sensing, University of Zurich
Bestätigte E-Mail-Adresse bei geo.uzh.ch - Startseite

Earth System Science | Earth Observation | Remote Sensing | Imaging Spectroscopy

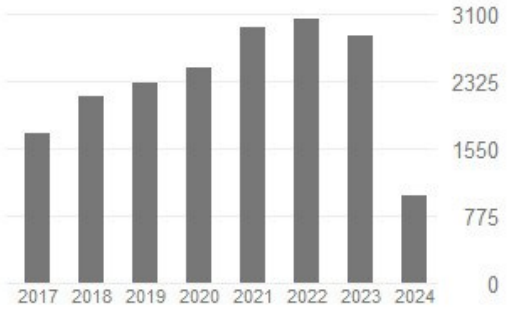
EIGENES PROFIL ERSTELLEN

Metrics

TITEL	ZITIERT VON	JAHR
Reflectance quantities in optical remote sensing—Definitions and case studies G Schaepman-Strub, ME Schaepman, TH Painter, S Dangel, ... Remote sensing of environment 103 (1), 27-42 1'040 | 3 | 731 | 2	1313	2006
Proxy global assessment of land degradation ZG Bai, DL Dent, L Olsson, ME Schaepman Soil use and management 24 (3), 223-234 800 | 12 | 504 | 6	1287	2008
Intercomparison, interpretation, and assessment of spring phenology in North America estimated from remote sensing for 1982–2006 MA White, KM de Beurs, K Didan, DW Inouye, AD Richardson, OP Jensen, ... Global change biology 15 (10), 2335-2359 898 | 20 | 686 | 1	1146	2009
The use of remote sensing in soil and terrain mapping—A review VL Mulder, S De Bruin, ME Schaepman, TR Mayr Geoderma 162 (1-2), 1-19 623 | 2 | 309 | 1	931	2011
Retrieval of foliar information about plant pigment systems from high resolution spectroscopy	745	2009

Zitiert von — ALLE ANZEIGEN

	Alle	Seit 2019
Zitate	27899	14701
h-index	78	61
i10-index	288	192



Öffentlicher Zugriff — ALLE ANZEIGEN

10 Artikel	70 Artikel
nicht verfügbar	verfügbar

Altmetric

Altmetric

? What is this page? | Embed badg

The toxic truth about sugar

Overview of attention for article published in Nature, February 2012

About this Attention Score

In the top 5% of all research outputs scored by Altmetric

MORE...

Mentioned by

- **35** news outlets
- **33** blogs
- **3** policy sources
- **1500** tweeters
- **1** patent
- **51** Facebook pages
- **6** Wikipedia pages
- **20** Google+ users
- **1** LinkedIn user
- **3** Redditors
- **6** video uploaders

Citations

- **515** Dimensions

SUMMARY | News | Blogs | Policy documents | Twitter | Patents | Facebook | Wikipedia | Google+ | LinkedIn

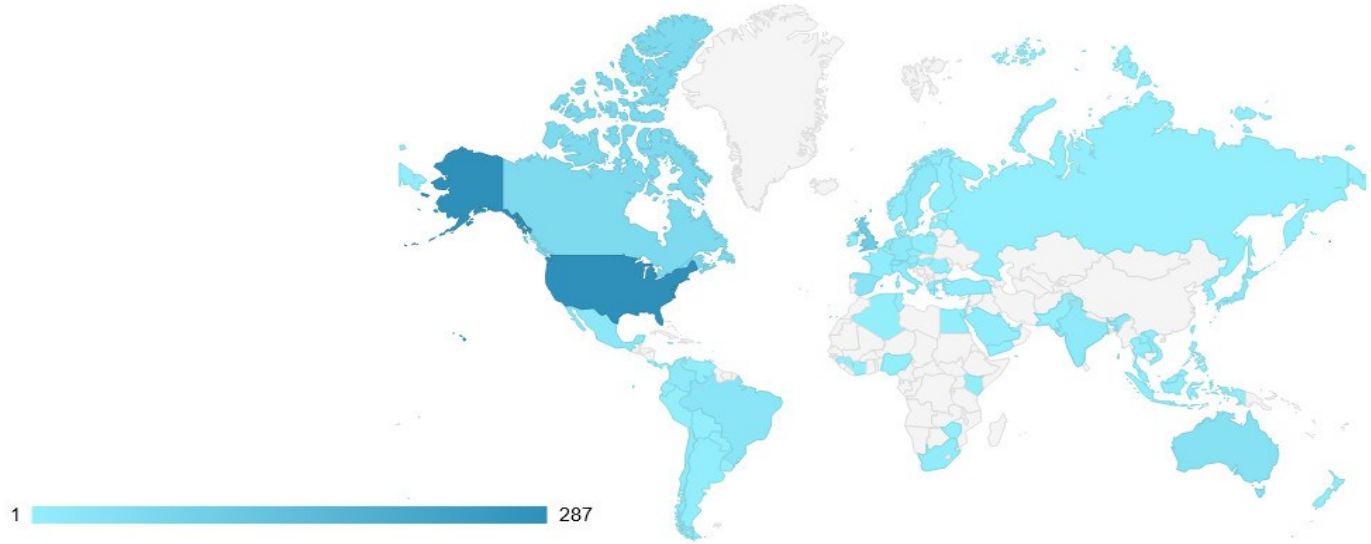
Title	The toxic truth about sugar
Published in	Nature, February 2012
DOI	10.1038/482027a
Pubmed ID	22297952
Authors	Robert H. Lustig, Laura A. Schmidt, Claire D. Brindis

View on publisher site

Alert me about new mentions

TWITTER DEMOGRAPHICS | MENDELEY READERS | ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of **1,500** tweeters who shared this research output. Click here to find out more about how the information was compile



Altmetric

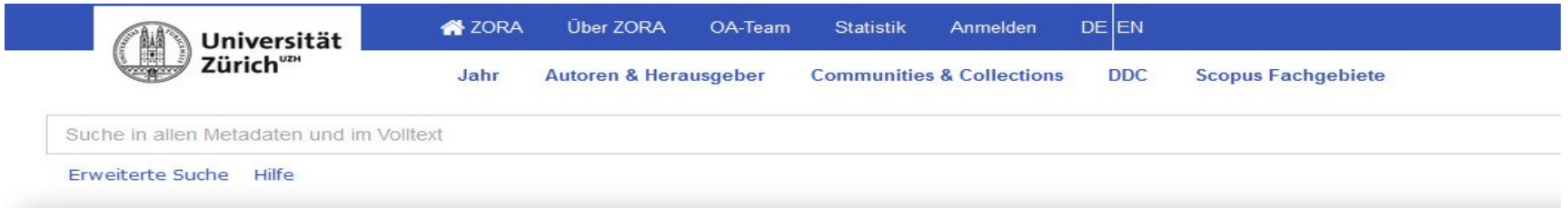
Introduction to the Bookmarklet

Modified on: Fri, 27 Nov, 2020 at 11:56 AM

The Altmetric Bookmarklet is a free browser tool for Chrome, Safari, and Firefox that lets you easily find out how much attention that recent papers have received online.

Click the Bookmarklet's "**Altmetric It!**" button, all of the altmetrics data for that paper will appear on the right side of the page.

Altmetrics in ZORA (Original in Altmetric)



TRY plant trait database – enhanced coverage and open access

Kopieren

Kattge, Jens; Bönisch, Gerhard; Díaz, Sandra; Lavorel, Sandra; Prentice, Iain Colin; Leadley, Paul; Tautenhahn, Susanne; Werner, Gijsbert D A; Aakala, Tuomas; Abedi, Mehdi; Acosta, Alicia T R; Adamidis, George C; Adamson, Kairi; Aiba, Masahiro; Albert, Cécile H; Alcántara, Julio M; Alcázar C, Carolina; Aleixo, Izabela; Ali, Hamada; Amiaud, Bernard; Ammer, Christian; Amoroso, Mariano M; Anand, Madhur; Anderson, Carolyn; Anten, Niels; Antos, Joseph; Apgaua, Deborah Mattos Guimarães; Ashman, Tia-Lynn; Asmara, Degi Harja; Asner, Gregory P; Schmid, Bernhard; et al (2020). *TRY plant trait database – enhanced coverage and open access.* Global Change Biology, 26(1):119-188.

Kurzfassung

Plant traits—the morphological, anatomical, physiological, biochemical and phenological characteristics of plants—determine how plants respond to environmental factors, affect other trophic levels, and influence ecosystem properties and their benefits and detriments to people. Plant trait data thus represent the basis for a vast area of research spanning from evolutionary biology, community and functional ecology, to biodiversity conservation, ecosystem and landscape management, restoration, biogeography and earth system modelling. Since its foundation in 2007, the TRY database of plant traits has grown continuously. It now provides unprecedented data coverage under an open access data policy and is the main plant trait database used by the research community worldwide. Increasingly, the TRY database also supports new frontiers of trait-based plant research, including the identification of data gaps and the subsequent mobilization or measurement of new data. To support this development, in

Mehr dazu...

Zitationen

461 Dimensions.ai Metrics

354 Zitationen in Web of Science®
332 Zitationen in Scopus®
Google Scholar™

Altmetrics

212

Tweeted by **276**
Blogged by **2**
Picked up by **4** news outlets
On **7** Facebook pages

977 readers on Mendeley

View details on Altmetric's website

Downloads

19 Downloads seit Hinterlegung am 30 Jul. 2020
8 Downloads seit 12 Monaten
Detaillierte Angaben

Metriken auf sozialen Plattformen

Michael Schaepman
Prof. Dr. sc. nat. · Chair at University of Zurich
Switzerland

Research Interest Score	9,734
Citations	14,439
h-index	58

Citations over time

Profile | Research (492) | Stats | Follow | Message | More

Stats overview

9,734	167,223	14,439	761
Research Interest Score	Reads ⓘ	Citations	Recommendations

Research Interest Score

We've improved the **Research Interest Score** to better help you understand an author's impact at a glance.

Learn more on our blog

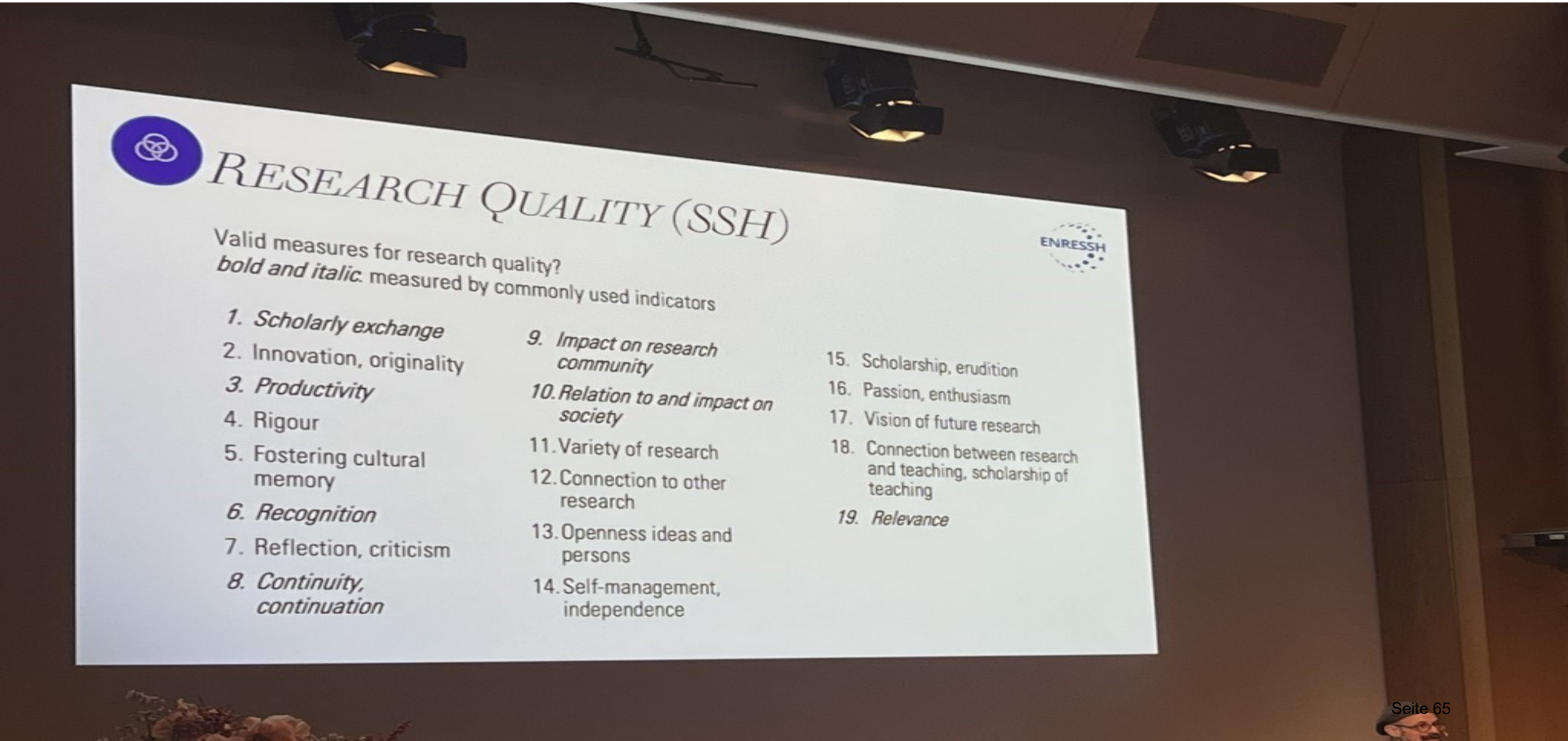
Was können Forschungsindikatoren leisten?

Bibliometrische Daten werden nach wie vor häufig als Entscheidungshilfe für die Verteilung von Budgets oder für die Vergabe von Stellen oder Preisen herangezogen. Die Antragsteller müssen die entsprechenden Daten in der Regel selbst bereitstellen.

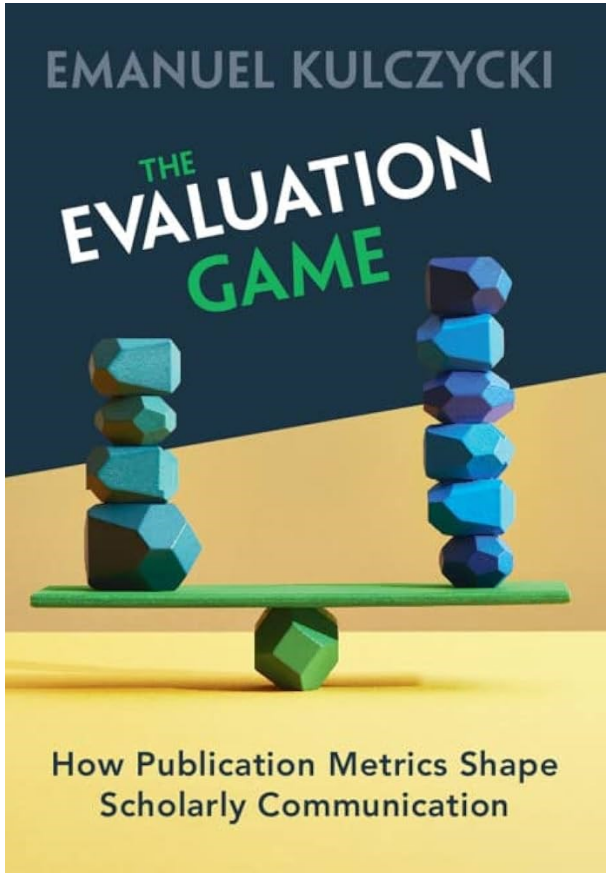
Wer schreibt zum Thema, wer zitiert wen, wer kooperiert mit wem?

- Zitationsbasierte Indikatoren sagen etwas über die Vergangenheit aus.
- Was in der Vergangenheit stimmte, muss nicht für die Zukunft stimmen
- Die Zahlen müssen immer in Bezug zum Fachbereich gesetzt und betrachtet werden!
- Menschen reagieren auf Bedingungen (Indikatoren werden zu Anreizen)
- Perverse Effekte = falsche Indikatoren/Anreize

„Während der Kolonialzeit hatten die Franzosen im vietnamesischen Hanoi mit einer Rattenplage zu kämpfen. Als Anreiz bezahlten sie den Einheimischen für jeden abgelieferten Rattenpelz eine Prämie. Das perverse Resultat davon: Die Leute begannen Ratten zu züchten.“ (Binswanger 2010)


RESEARCH QUALITY (SSH)
ENRESSH
Valid measures for research quality?
bold and italic: measured by commonly used indicators
1. Scholarly exchange
2. Innovation, originality
3. Productivity
4. Rigour
5. Fostering cultural memory
6. Recognition
7. Reflection, criticism
8. Continuity, continuation
9. Impact on research community
10. Relation to and impact on society
11. Variety of research
12. Connection to other research
13. Openness ideas and persons
14. Self-management, independence
15. Scholarship, erudition
16. Passion, enthusiasm
17. Vision of future research
18. Connection between research and teaching, scholarship of teaching
19. Relevance

Further Reading



Kulczycki, E. (2022). *The Evaluation Game How Publication Metrics Shape Scholarly Communication*. Cambridge University Press. https://doi.org/10.1017/9781009351218

Video Recording:
https://video.ethz.ch/events/2023/syos/3c4c3b1d-8655-496e-9fb2-49a37d79c8d1.html

Betschart, Leo: Shenanigans with Impact Factors 1: The curious case of Acta Crystallographica Section A.
https://yearofscientometrics.ethz.ch/shenanigans-with-impact-factors-1-the-curious-case-of-acta-crystallographica-section-a/