



Universität
Zürich^{UZH}

Hauptbibliothek

Impact Factor, h-Index, Zitierhäufigkeit & Co.

Datum: Dienstag, 27. Januar 2015

Ort: Rämistrasse 74, Gebäude RAI (PC-Kursraum RAI-E-131)

Brigitte Schubnell

Leiterin Abteilung Naturwissenschaften

Koordinatorin Informationskompetenz



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 - populäre bibliometrische Indikatoren:
h-Index und Impact Factor
 - Autorenidentifikation
4. Anwendungen in Google Scholar und Altmetrics



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Bibliometrie: 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 Beschreibung und Erklärung der Prozesse schriftlicher Mitteilungen und ihrer Rezeption ("Impact"), sowie der Natur und der Entwicklung eines Wissenschaftsgebietes, durch Zählung und Analyse ihrer verschiedenen Aspekte. Der Begriff wurde 1969 von Alan Pritchard erstmals verwendet. Die Abgrenzung gegenüber Szientometrie und Informetrie ist fließend, die einzelnen Begriffe stellen jeweils verschiedene Aspekte in den Vordergrund.“

(Universitätsbibliothek Wien, Team Bibliometrie, <http://bibliometrie.univie.ac.at/glossar/>)



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 Kooperationsmöglichkeiten zu identifizieren und Forschungsnetzwerke aufzuzeigen
- ...und kann Bibliotheken als Grundlage für die Erwerbung von Monografien, Zeitschriften und Datenbanken dienen



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Bibliometrische Datenquellen



Lizenzierte Datenbanken an der UZH



Thomson Reuters

- Web of Science (WoS) Core Collection
- Journal Citation Reports (JCR)
- Essential Science Indicators (ESI)

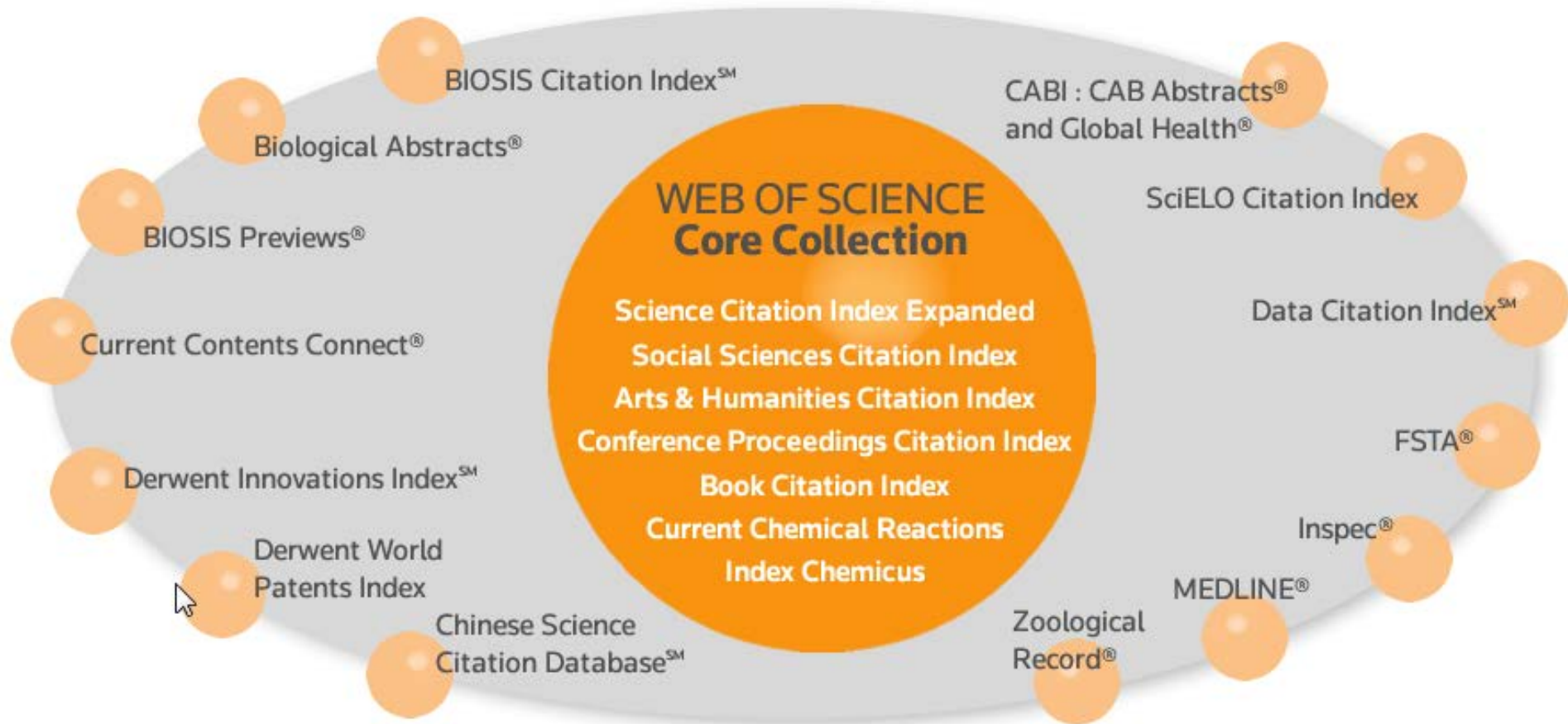


Elsevier

- Scopus
mit Journal Analyzer (Compare journals)



WEB OF SCIENCE™





Web of Science Core Collection

- **Science Citation Index Expanded (1900-)**
Naturwissenschaften, Medizin, Ingenieurwissenschaften (> 8'300 ZS)
- **Social Sciences Citation Index (1900-)**
Gesellschafts- und Sozialwissenschaften (> 4'500 ZS der Sozialwissenschaften sowie 3'500 führende wissenschaftliche und technische ZS)
- **Arts & Humanities Citation Index (1975-)**
Geisteswissenschaften und Kunst (2'300 ZS der Geisteswissenschaften und Kunst sowie ausgewählte relevante Artikel aus 6'000 wissenschaftlichen und sozialwissenschaftlichen ZS)
- **Conference Proceedings Citation Index (1990-)**
Tagungsberichte aus allen Disziplinen
- **Book Citation Index (2005-)**
> als 50'000 Bücher aus allen Disziplinen; jährlicher Zuwachs ca. 10'000 Bücher
- **Index Chemicus (1993-)** mit ca. 2.6 Mio. Verbindungen
- **Current Chemical Reactions (1985-)** mit ca. 1 Mio. Reaktionen & [INPI](#)-Archiv (1840-1985)



WoS Core Collection

- **Interdisziplinarität (> 55 Mio. Datensätze)**
Ausgewertet werden Zeitschriften und Konferenzberichte, seit 2005 auch Bücher; wöchentliche Updates
- **Zitierungen**
 - Indexiert werden:
 - bibliographischen Angaben
 - englischsprachige Abstracts (ab 1991 bis heute)
 - alle in den Artikeln zitierten Referenzen
 - alle Autoren sind erfasst (nicht nur die/der erste)
 - ➔ Wie oft und von wem wurde ein bestimmter Artikel bzw. ein/e Autor/in zitiert?
- Abfragesprache ist - wie bei den meisten Fachdatenbanken – **Englisch** (Titel der Artikel werden ins Englische übersetzt)



WoS Core Collection: Auswahlkriterien für Zeitschriften

- **Pünktliches** und regelmässiges Erscheinen der Zeitschriftenhefte
- **Internationale** Redaktionskonventionen
- **Englischer** Volltext – oder zumindest englische Bibliographie
- **Peer Review**
- Redaktionelle Inhalte
- Internationale Vielfalt der Autoren, Redakteure und der Mitglieder des Herausgeberbeirats
(insbesondere bei Zeitschriften, die sich an eine internationale Zielgruppe wenden; bei regionalen Zeitschriften gelten ähnliche Kriterien)
- Zitationsanalysen (darf z.B. nicht zu viele Selbstzitate enthalten)



Journal Citation Reports (JCR) (jährliche Herausgabe)

Datenbanken:

- 2013 JCR Science Edition: > 8'400 Zeitschriften
- 2013 JCR Social Sciences Edition: > 3'000 Zeitschriften

Informationen:

- Bibliographische Basisangaben (Verlag, Kurztitel, Sprache, ISSN)
- Fachliche Zuordnung (Science 176 / Social Sciences 56 Kategorien)
- Journal Impact Factor (JIF)
- 5-Year Impact Factor
- Eigenfactor
- Anzahl Zitationen, Anzahl Eigenzitationen
- Anzahl veröffentlichter Artikel pro Jahr
- etc.



Example: oil spill* mediterranean

+ Add Another Field | Reset

All Databases

Web of Science™ Core Collection

BIOSIS Citation IndexSM

BIOSIS Previews®

Current Contents Connect®

Data Citation IndexSM

Derwent Innovations IndexSM

KCI-Korean Journal Database

MEDLINE®

... the new Web of Science! View a brief tutorial.

Click here for tips to improve your search.

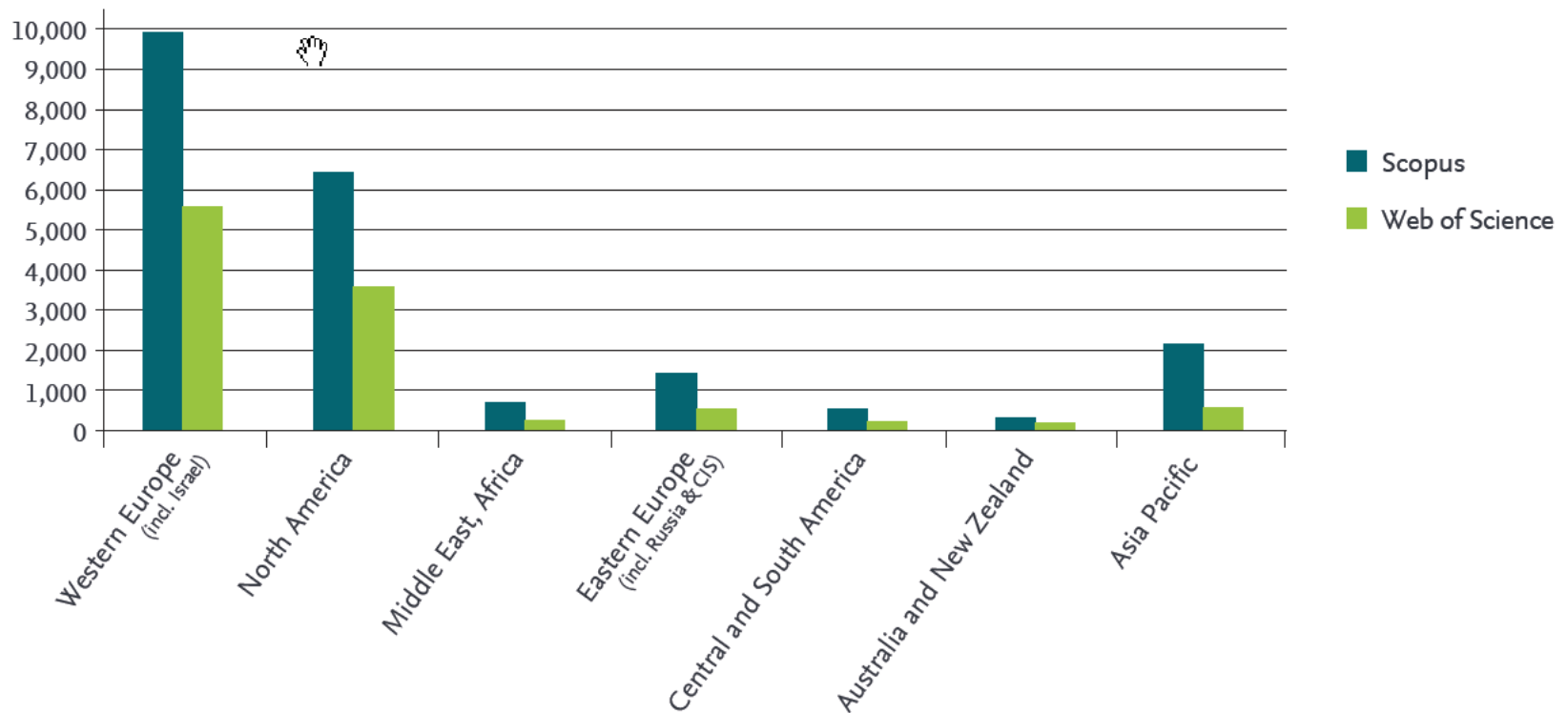


Scopus – multidisziplinäre Zitationsdatenbank

- > 20'000 Zeitschriften
 - > 365 Handelsblätter, > 420 Buchserien, ca. 50'000 Bücher
 - 6.5 Mio. Conference Papers aus Proceedings und Journals
 - 24 Mio. Patente
 - > **55 Mio. Datensätze**
- **ab 1996**, ca. 40% der Inhalte gehen weiter zurück (bis 1823)
- Tägliche Aktualisierung (ca. 3 Mio. Zuwachs pro Jahr)
- Weltweit, stärkere **europäische** und **asiatische** Ausrichtung als WoS
- besser geeignet für Publikationen jüngerer Wissenschaftler (breitere Abdeckung ab 1996)? Unterschiede nach Fachgebiet?
- bibliometrische Analyse-Tools
 - für Zeitschriften: Journal Analyzer [Comopare Journals]



Anzahl Titel in Scopus vs. WoS (Feb. 2014)

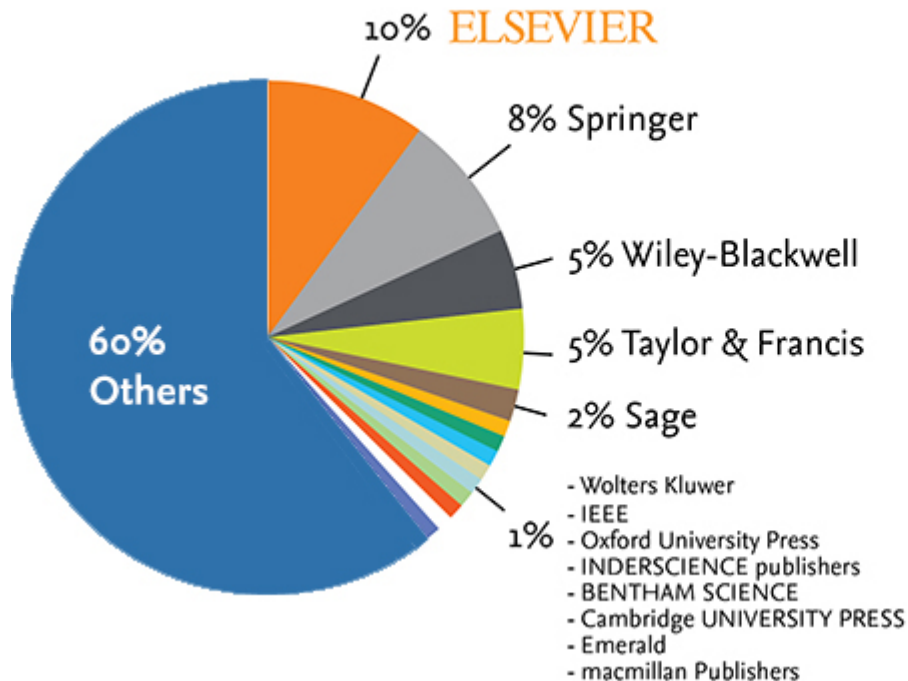


Grafik aus dem «Scopus Content Coverage Guide» von Elsevier (Juli 2014)

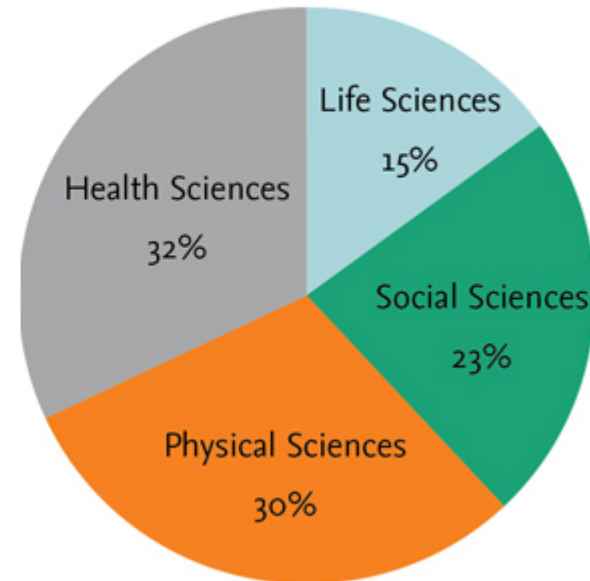
http://www.elsevier.com/_data/assets/pdf_file/0019/148402/SC_Content-Coverage-Guide_July-2014.PDF

Verteilung nach Verlagen und Fachgebieten

Publishers indexed in Scopus



Subject coverage in Scopus



Grafik aus der Scopus-Produktebeschreibung auf der Elsevier Website:
<http://www.elsevier.com/online-tools/scopus/content-overview>



Search | Alerts | My list | **Main Page Header** | My Scopus

Document search | Author search | Affiliation search | Advanced search

Browse Sources | **Compare journals**

Search for... *Eg., "heart attack" AND stress*

Article Title, Abstract, Keywords



+ Add search field

Limit to:

Date Range (inclusive)

Published to

Added to Scopus in the last days

Document Type

Subject Areas

Life Sciences (> 4,300 titles.)

Health Sciences (> 6,800 titles. 100% Medline coverage)

Physical Sciences (> 7,200 titles.)

Social Sciences & Humanities (> 5,300 titles.)

Resources

Follow @Scopus on Twitter for updates, news and more

Access Scopus videos

Learn about alerts and registration



Alternative Analysetools

- **Google Scholar**
Anzahl Zitationen, (h-Index)
<http://scholar.google.com/>
- **SCImago Journal & Country Rank (SJR)**
SJR; basierend auf den Daten von Scopus
<http://www.scimagojr.com/>
- **eigenfactor.org**
Eigenfactor Score; basierend auf den Daten von Web of Science
Zitationen von hochzitierten Journals erhalten mehr Gewicht
<http://www.eigenfactor.org/>



Instrumente im Vergleich

	Artikel	Autor	Zeitschrift
WoS Core Collection	X	X	
JCR			X
Scopus	X	X	X
Google Scholar	X	X	
eigenfactor.org			X
SCImago			X



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Analysen mithilfe von Zitationsdatenbanken



Ergebnisse einer thematischen Suche analysieren

Mithilfe der Funktion **Analyze (search) results** können in WoS Core Collection und Scopus Fragen folgender Art beantwortet werden:

- 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?
- Welche Fachgebiete, Organisationen etc. wurden die letzten Jahre vom SNF (**Funding Agency**) am meisten unterstützt?
(WoS Core Collection)



Beispiel einer komplexen Suchanfrage

Suchanfrage zum 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-scienc* or collaboration-network* or web\$metr* or h-index or hirsch-index or hirsch-type or patent-citat*

Web of Science

TS = Topic

Scopus

TITLE-ABS-KEY = Title, Abstract, Keywords



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LIVE



Search

Web of Science™ Core Collection

My Tools

Search History

Marked List

Welcome to the new Web of Science! View a brief tutorial.

Basic Search

1: Suchbegriffe eingeben

bibliometr* or scientometr* or informetr* or citation-impact* or citation*-analy* c

Topic

Search

[Click here for tips to improve your search.](#)

+ Add Another Field

TIMESPAN

All years

From 1900 to 2014

2: Publikationszeitraum eingrenzen (wenn nötig)

MORE SETTINGS

Web of Science Core Collection: Citation Indexes

- Science Citation Index Expanded (SCI-EXPANDED) --1900-present
- Social Sciences Citation Index (SSCI) --1900-present
- Arts & Humanities Citation Index (A&HCI) --1975-present
- Conference Proceedings Citation Index- Science (CPCI-S) --1990-present
- Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1990-present
- Book Citation Index- Science (BKCI-S) --2005-present
- Book Citation Index- Social Sciences & Humanities (BKCI-SSH) --2005-present

3: Datenbanken auswählen (wenn nötig)

Web of Science Core Collection: Chemical Indexes

- Current Chemical Reactions (CCR-EXPANDED) --1985-present
(Includes Institut National de la Propriete Industrielle structure data back to 1840)
- Index Chemicus (IC) --1993-present



[Back to Search](#)

[My Tools](#)

[Search History](#)

[Marked List](#)

Results: 9,650

(from Web of Science Core Collection)

You searched for:

TOPIC: (bibliometr* or scientometr* or informetr* or citation ...[More](#)

[Create Alert](#)

Refine Results

Search within results for...



Web of Science Categories

- INFORMATION SCIENCE LIBRARY SCIENCE (3,370)
- COMPUTER SCIENCE INTERDISCIPLINARY APPLICATIONS (1,481)
- COMPUTER SCIENCE INFORMATION SYSTEMS (965)
- MANAGEMENT (616)
- MULTIDISCIPLINARY SCIENCES (379)

[more options / values...](#)

[Refine](#)

Document Types

- ARTICLE (8,007)
- EDITORIAL MATERIAL (695)
- REVIEW (538)
- PROCEEDINGS PAPER (352)
- LETTER (220)

Sort by: **Publication Date -- newest to oldest**

Page 1 of 965

Select Page



[Save to EndNote onli...](#)

[Add to Marked List](#)

[Analyze Results](#)
[Create Citation Report](#)

1. **TOWARD A FEMINIST ANALYSIS OF "IMPACT" SONDRA HALE'S SCHOLARSHIP AND ACTIVISM IN AND BEYOND THE UNIVERSITY**

By: Fabos, Anita; Haddad, Emily
JOURNAL OF MIDDLE EAST WOMENS STUDIES Volume: 10 Issue: 1 Special Issue: SI Pages: 53-81 Published: WIN 2014



[View Abstract](#)

Times Cited: 0
(from Web of Science Core Collection)

2. **Recent advances in bibliometric indexes and the PaperRank problem**

By: Amodio, Pierluigi; Brugnano, Luigi
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS Volume: 267 Pages: 182-194 Published: SEP 2014



[View Abstract](#)

Times Cited: 0
(from Web of Science Core Collection)

3. **Production, consumption and research on solar energy: The Spanish and German case**

By: Sanz-Casado, Elias; Luisa Lascurain-Sanchez, Maria; Eleazar Serrano-Lopez, Antonio; et al.
RENEWABLE ENERGY Volume: 68 Pages: 733-744 Published: AUG 2014



[View Abstract](#)

Times Cited: 0
(from Web of Science Core Collection)

4. **On improvement rates for renewable energy technologies: Solar PV, wind turbines, capacitors, and batteries**

By: Benson, Christopher L.; Magee, Christopher L.
RENEWABLE ENERGY Volume: 68 Pages: 745-751 Published: AUG 2014



[View Abstract](#)

Times Cited: 0
(from Web of Science Core Collection)

5. **Why do economists publish less?**

By: Yuret, Tolga
APPLIED ECONOMICS LETTERS Volume: 21 Issue: 11 Pages: 760-762 Published: JUL 24 2014



[View Abstract](#)

Times Cited: 0
(from Web of Science Core Collection)



WoS Core Collection – Analyze Results

Results Analysis

[<<Back to previous page](#)

9,650 records. TOPIC: (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-scienc* or collaboration-network* or web\$metr* or h-index or hirsch-index or hirsch-type or patent-citat*)

Rank the records by this field:	Set display options:	Sort by:
<ul style="list-style-type: none"> Group Authors Languages Organizations <li style="background-color: #e0e0e0;">Organizations-Enhanced 	Show the top <input type="text" value="25"/> Results. Minimum record count (threshold): <input type="text" value="2"/>	<input checked="" type="radio"/> Record count <input type="radio"/> Selected field

Analyze

Use the checkboxes below to view the records. You can choose to view those selected records, or you can exclude them (and view the others).

<input checked="" type="checkbox"/> View Records <input type="checkbox"/> Exclude Records		Field: Organizations-Enhanced	Record Count	% of 9650	Bar Chart	<input type="button" value="Save Analysis Data to File"/> <input checked="" type="radio"/> Data rows displayed in table <input type="radio"/> All data rows (up to 200,000)
<input type="checkbox"/>		CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS CSIC	228	2.363 %		
<input type="checkbox"/>		KU LEUVEN	189	1.959 %		
<input type="checkbox"/>		UNIVERSITY OF GRANADA	166	1.720 %		
<input type="checkbox"/>		UNIVERSITY OF CALIFORNIA SYSTEM	156	1.617 %		
<input type="checkbox"/>		INDIANA UNIVERSITY	144	1.492 %		
<input type="checkbox"/>		UNIVERSITY OF LONDON	143	1.482 %		
<input type="checkbox"/>		UNIVERSITY OF AMSTERDAM	130	1.347 %		
<input type="checkbox"/>		LEIDEN UNIVERSITY	129	1.337 %		
<input type="checkbox"/>		INDIANA UNIVERSITY BLOOMINGTON	120	1.244 %		
<input type="checkbox"/>		HUNGARIAN ACADEMY OF SCIENCES	117	1.212 %		
<input type="checkbox"/>		INDIANA UNIVERSITY SYSTEM	116	1.202 %		
<input type="checkbox"/>		UNIVERSITY OF ANTWERP	116	1.202 %		
<input type="checkbox"/>		UNIVERSITY OF TORONTO	106	1.098 %		
<input type="checkbox"/>		HARVARD UNIVERSITY	100	1.036 %		
<input type="checkbox"/>		MAX PLANCK SOCIETY	95	0.984 %		
<input type="checkbox"/>		HASSELT UNIVERSITY	93	0.964 %		



Search Alerts My list My Scopus

Advanced Search wählen, wenn
Suchstring sehr lang ist

Document search | Author search | Affiliation search | **Advanced search**

Search for... *Eg., "heart attack" AND stress* Article Title, Abstract, Keywords

+ Add search field

Suchbegriffe eingeben

Limit to:

Limitierungen auswählen (wenn nötig)

Date Range (inclusive)

Published All years to Present

Added to Scopus in the last 7 days

Document Type

ALL

Subject Areas

Life Sciences (> 4,300 titles.)

Health Sciences (> 6,800 titles. 100% Medline coverage)

Physical Sciences (> 7,200 titles.)

Social Sciences & Humanities (> 5,300 titles.)

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日本語に切り替える

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Document search | Author search | Affiliation search

Advanced search

Browse Sources Compare journals

Search tips Field codes

TITLE-ABS-KEY(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-sci* or collaboration-network* or web\$metr* or h-index or hirsch-index or hirsch-type or patent-citat*) AND PUBYEAR AFT 2010

2.

3.

1. Feldcode durch Doppelklick auswählen
2. Suchstring eingeben
3. Publikationszeitraum eingrenzen (wenn nötig)

Outline query | Clear form | Add Author name / Affiliation



As you type Scopus offers code suggestions. Double click or press "enter" to add to advanced search.

- REFPAGEFIRST
- REFPUBYEAR
- REFSRCTITLE
- REFTITLE
- SEQBANK
- SEQNUMBER
- SRCTITLE
- SRCTYPE
- SUBJAREA
- TITLE
- 1. TITLE-ABS
- TITLE-ABS-KEY**
- TITLE-ABS-KEY-AUTH
- TRADENAME
- VOLUME

Code: TITLE-ABS-KEY
Name: Compound Field

A combined field that searches abstracts, keywords, and article titles.

For Example:

Entering TITLE-ABS-KEY("heart attack") will return documents with "heart attack" in their abstracts, article titles, or keyword fields.

Note:

TITLE-ABS-KEY is the Basic Search default search field.

Advanced search examples:

ALL("heart attack") 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)



Scopus

Scopus | SciVal | Register | Login | Help

Brought to you by
UZH Hauptbibliothek / Zentralbibliothek Zürich

Search Alerts My list My Scopus

TITLE-ABS-KEY (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-scienc* OR collaboration-network* OR web\$metr* OR h-index OR hirsch-index OR hirsch-type OR patent-citat*) AND PUBYEAR > 2010

Edit | Save | Set alert | Set feed



10,758 document results | View secondary documents | View 37 patent results | **Analyze search results** | Sort on: Date Cited by Relevance

Search within results... | Export | Download | View citation overview | View Cited by | More... | Show all abstracts

Refine
Limit to Exclude

Year

- 2015 (101)
- 2014 (2,435)
- 2013 (3,005)
- 2012 (2,730)
- 2011 (2,487)

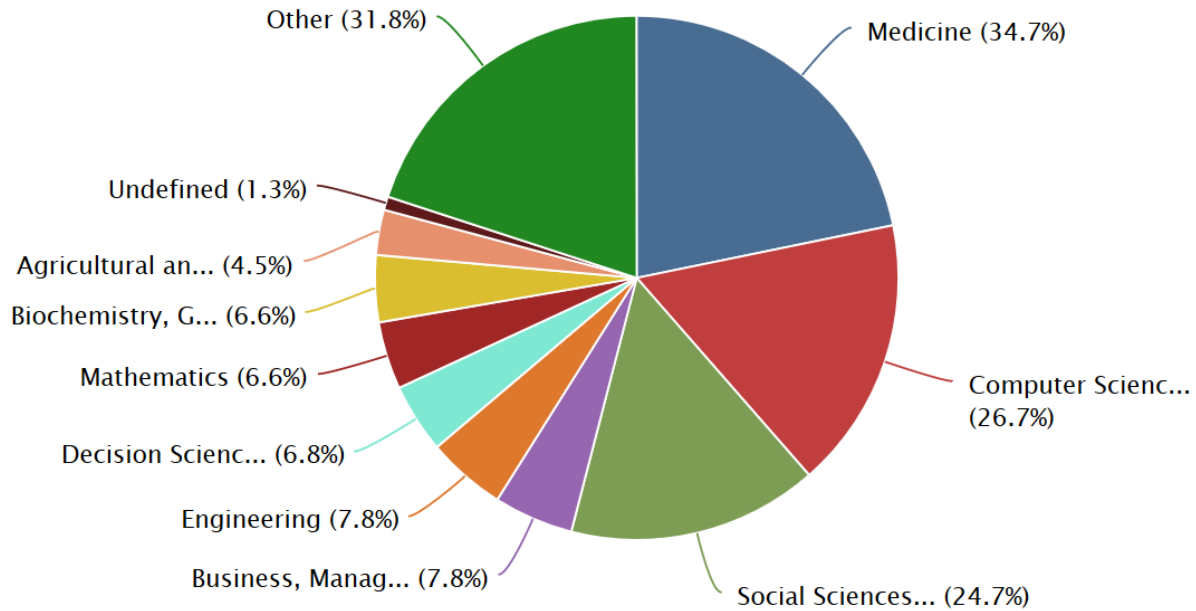
<input type="radio"/>	Mapping teacher education domain: A document co-citation analysis from 1992 to 2012	Özçinar, H.	2015	Teaching and Teacher Education	0
	 View at Publisher				
<input type="radio"/>	National Journals and Centering Institutions: A historiography of an English language teaching journal in Taiwan	Sheridan, C.L.	2015	English for Specific Purposes	0
	 View at Publisher				
<input type="radio"/>	Identification of, and knowledge communication among core safety science journals	Li, J., Hale, A.	2015	Safety Science	0



Search		Alerts		My list		My Scopus	
Year	Source	Author	Affiliation	Country	Document type	Subject area	

Subject Area	Documents
Medicine	4502
Computer Science	3465
Social Sciences	3194
Business, Management and Accou...	1015
Engineering	1010
Decision Sciences	885
Mathematics	861
Biochemistry, Genetics and Molecu...	851
Agricultural and Biological Sciences	578
Psychology	413
Environmental Science	390
Nursing	344
Arts and Humanities	338

Documents by subject area





Aufgabe

1. Wählen Sie ein Thema aus Ihrem Forschungsgebiet.
2. Schränken Sie auf den Zeitraum 2010 bis heute und die Publikationstypen article, review, proceedings paper und letter ein.
3. Ermitteln Sie für Ihr gewähltes Thema Folgendes:
 - die Autoren mit den meisten Veröffentlichungen
 - die Institutionen und Länder, die im Gebiet aktiv sind
 - die Core Journals
4. Nutzen Sie zuerst die Datenbank Web of Science. Nutzen Sie anschliessend für die gleiche Suche und die gleichen Fragestellungen die Datenbank Scopus.
Diskutieren Sie die unterschiedlichen Resultate.



Rank the records by this field:	Set display options:	Sort by:
Organizations-Enhanced Publication Years Research Areas Source Titles	Show the top <input type="text" value="50"/> Results. Minimum record count (threshold): <input type="text" value="2"/>	<input checked="" type="radio"/> Record count <input type="radio"/> Selected field

Analyze

Wie hoch ist der Impact Factor der Journals? => Journal Citation Reports (JCR)

Use the checkboxes below to view the records. You can choose to view those selected records, or you can exclude them (and view the others).

<input type="checkbox"/> View Records <input checked="" type="checkbox"/> Exclude Records		Field: Source Titles	Record Count	% of 7627	Bar Chart	<input type="button" value="Save Analysis Data to File"/> <input checked="" type="radio"/> Data rows displayed in table <input type="radio"/> All data rows (up to 200,000)
<input type="checkbox"/>		SCIENTOMETRICS	995	13.046 %	<div style="width: 13.046%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		JOURNAL OF INFORMETRICS	329	4.314 %	<div style="width: 4.314%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		JOURNAL OF THE AMERICAN SOCIETY FOR INFORMATION SCIENCE AND TECHNOLOGY	237	3.107 %	<div style="width: 3.107%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		PLOS ONE	149	1.954 %	<div style="width: 1.954%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		PROCEEDINGS OF ISSI 2011 THE 13TH CONFERENCE OF THE INTERNATIONAL SOCIETY FOR SCIENTOMETRICS AND INFORMETRICS VOLS 1 AND 2	85	1.114 %	<div style="width: 1.114%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SCIENTOMETRICS AND INFORMETRICS	85	1.114 %	<div style="width: 1.114%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		RESEARCH EVALUATION	81	1.062 %	<div style="width: 1.062%; height: 10px; background-color: #0070C0;"></div>	
<input type="checkbox"/>		RESEARCH POLICY	67	0.878 %	<div style="width: 0.878%; height: 10px; background-color: #0070C0;"></div>	



Journal Impact Factor (JIF)

$$\text{JIF 2013} = \frac{\text{Anz. Zitationen im 2013 der im Journal publizierten Dokumente in 2011 + 2012}}{\text{Anz. "Citable Items" (Articles, Reviews, Proceedings Papers) in 2011 + 2012}}$$

- Ein Impact Factor von 42.351* (JIF 2013 von Nature) bedeutet, dass die in den Jahren 2011 und 2012 in Nature publizierten Artikel im Jahr 2013 durchschnittlich ca. 42 Mal zitiert wurden.

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

→

Rank	JCR Year ▾	MULTIDISCIPLINARY SCIENCES
Cited Journal Data	2013	1/55-Q1
	2012	1/56-Q1



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 für viele Fachgebiete zu kurz
 - ➔ Fachgebiete mit schnellen Zitationsraten bevorzugt (5 Year IF)
- JIF nur in Relation zur Fachkategorie, aber auch innerhalb der Fachkategorie grosse Unterschiede
- Journal-Ranking ohne Selbstzitationen (JIF without Journal Self Cites)
- Zeitschriftenauswahl in WoS Core Collection



"Verbesserungen"

- **Five-Year Impact Factor**
 - JIF mit 5-Jahres-Fenster
- **Journal Impact Factor without Journal Self Cites**
 - Ohne Selbstzitationen (Selbstzitationen sind normal, sollten aber von der Verlagen nicht verwendet werden, um den JIF zu erhöhen)
- **Eigenfactor Score**
 - Ohne Journal-Selbstzitation, 5-Jahres-Fenster
 - Eigenzitate einer Zeitschrift werden nicht gezählt
 - Zu beachten: Eigenfactor gibt Zitationen, die von hochzitierten Journals stammen, mehr Gewicht
 - Summe der Eigenfactor Scores über alle Zeitschriften beträgt 100 %



Scopus – Journal Analyzer

- **SJR (SCImago Journal Rank)**
 - Zu beachten: Gibt wie Eigenfactor den Zitationen, die von hochzitierten Journals stammen, mehr Gewicht
 - Inspiriert vom Google PageRank Algorithmus
 - 2-Jahres-Zitationsfenster
- **SNIP (Source Normalized Impact per Paper in Scopus)**
 - Werte sind über Fachgebiete vergleichbar
 - Berücksichtigt Zitationspotential in einem Feld (Häufigkeit und Schnelligkeit der Zitationen, Abdeckungsgrad des Felds durch die Scopus-Datenbank)
 - 4-Jahres-Zitationsfenster



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Web of Science

Zentrales Portal der bibliographischen bzw. bibliometrischen Produkte von Thomson Reuters.

The screenshot displays the Web of Science homepage. At the top, there is a navigation bar with links for 'InCites', 'Journal Citation Reports', 'Essential Science Indicators', and 'EndNote'. Below this, the 'WEB OF SCIENCE' logo and the Thomson Reuters logo are visible. A search bar is present with the text 'Web of Science™ Core Collection' and a dropdown arrow. A red arrow points to this dropdown menu, which is open, showing a list of databases: 'All Databases', 'Web of Science™ Core Collection', 'BIOSIS Citation Index', 'BIOSIS Previews', 'Current Contents Connect', 'Data Citation Index', 'Derwent Innovations Index', 'MEDLINE', 'SciELO Citation Index', and 'Zoological Record'. A mouse cursor is hovering over the 'Web of Science™ Core Collection' option, and a tooltip 'Search Web of Science Core Collection' is visible. Below the search bar, there is a 'Basic Search' section with a search input field containing the text 'climat* chang* (plant* OR vegetation*) switzerland'. To the right of the search bar is a 'Search' button. Below the search bar, there is a 'TIMESPAN' section with radio buttons for 'All years' and 'From 1900 to 2014'. At the bottom left, there is a 'MORE SETTINGS' link. The page also features a welcome message: 'Welcome to the new Web of Science! View a brief tutorial.' and a link for tips: 'Click here for tips to improve your search.'



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Help

English

1.

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THOMSON REUTERS™

Home



2.

Go to Journal Profile

SCIENTOMETRICS



Compare Journals

Journals By Rank

Categories By Rank

Journal Titles Ranked by Impact Factor

Show Visualization +

Compare Selected Journals

Add Journals to New or Existing List

Customize Indicators

Full Journal Title

Total Cites

Journal
Impact

Eigenfactor Score




Master Search

Search Journals



1 - 2 of 2

Full Journal Title ▲	JCR Abbreviated Title	ISSN	eISSN	Edition	JCR Coverage Years
SCIENTOMETRICS	SCIENTOMETRICS	0138-9130	1588-2861	SCIE	1997, 1997, 1998, 1998, 1999, 1999, 2000, 2000, 2001, 2001, 2002, 2002, 2003, 2003, 2004, 2004, 2005, 2005, 2006, 2006, 2007, 2007, 2008, 2008, 2009, 2009, 2010, 2010, 2011, 2011, 2012, 2012, 2013, 2013
SCIENTOMETRICS 	SCIENTOMETRICS	0138-9130	1588-2861	SSCI	1997, 1997, 1998, 1998, 1999, 1999, 2000, 2000, 2001, 2001, 2002, 2002, 2003, 2003, 2004, 2004, 2005, 2005, 2006, 2006, 2007, 2007, 2008, 2008, 2009, 2009, 2010, 2010, 2011, 2011, 2012, 2012, 2013, 2013



SCIENTOMETRICS

ISSN: 0138-9130

SPRINGER

VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS

NETHERLANDS

[Go to Journal Table of Contents](#) [Go to Ulrich's](#)

Titles

ISO: Scientometrics

JCR Abbrev: SCIENTOMETRICS

Categories

INFORMATION SCIENCE &
LIBRARY SCIENCE - SSCI

Languages

ENGLISH

12 Issues/Year;

scrollen

Key Indicators

Year ▼	Total Cites Graph	Journal Impact Factor Graph	Impact Factor Without Journal Self Cites Graph	5 Year Impact Factor Graph	Immediacy Index Graph	Citable Items Graph	Cited Half-Life Graph	Citing Half-Life Graph	Eigenfactor Score Graph	Article Influence Score Graph
2013	5,129	2.274	1.524	2.294	0.329	255	6.5	8.1	0.01144	0.677
2012	4,555	2.133	1.297	2.207	0.449	254	6.5	7.1	0.00931	0.599
2011	4,048	1.966	1.207	2.443	0.378	217	5.9	7.0	0.01008	0.680
2010	3,602	1.905	1.220	2.415	0.173	226	6.4	7.1	0.00785	0.583



Year	Citations	h-index	g-index	Not Avail...	g-index	h-index	g-index	Not Avail...	Not Avail...
2002	769	0.855	0.450	Not Avail...	0.202	84	6.3	8.1	Not Avail...
2001	916	0.676	0.404	Not Avail...	0.165	91	6.6	8.6	Not Avail...
2000	710	0.660	0.278	Not Avail...	0.122	82	6.3	8.5	Not Avail...
1999	622	0.931	0.283	Not Avail...	0.047	128	5.4	7.1	Not Avail...
1998	527	0.710	0.320	Not Avail...	0.238	84	5.1	6.6	Not Avail...
1997	463	0.691	0.407	Not Avail...	0.088	57	6.0	7.9	Not Avail...

Source Data

Rank

Cited Journal Data

Citing Journal Data

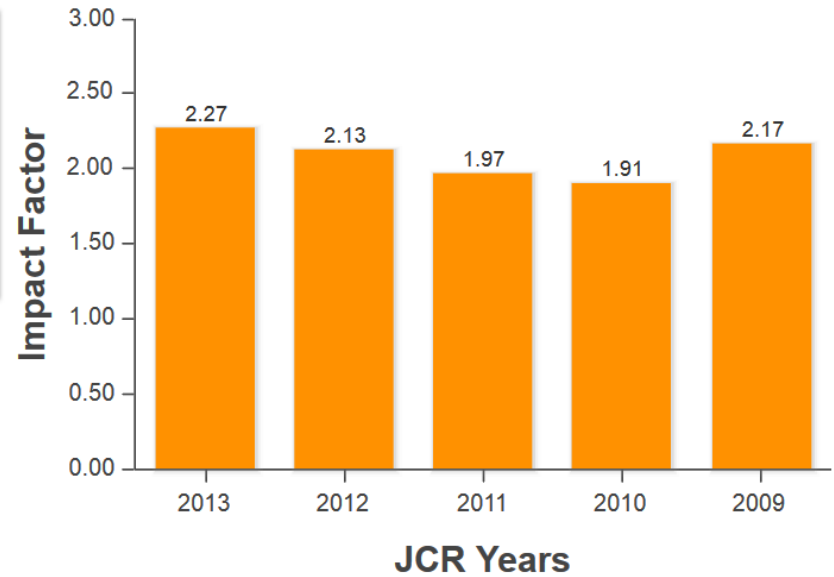
Box Plot

Journal Relationships

JCR Impact Factor

JCR Year	INFORMATION SCIENCE & LIBRARY SCIENCE
2013	8/84-Q1
2012	7/85-Q1
2011	12/83-Q1
2010	14/77-Q1
2009	10/66-Q1

SSCI



[View All Years](#)



2001	916	0.676	0.404	Not Avail...	0.165	91	6.6	8.6	Not Avail...	Not Avail...
2000	710	0.660	0.278	Not Avail...	0.122	82	6.3	8.5	Not Avail...	Not Avail...
1999	622	0.931	0.283	Not Avail...	0.047	128	5.4	7.1	Not Avail...	Not Avail...
1998	527	0.710	0.320	Not Avail...	0.238	84	5.1	6.6	Not Avail...	Not Avail...
1997	463	0.691	0.407	Not Avail...	0.088	57	6.0	7.9	Not Avail...	Not Avail...

Source Data

Rank



Cited Journal Data

Citing Journal Data

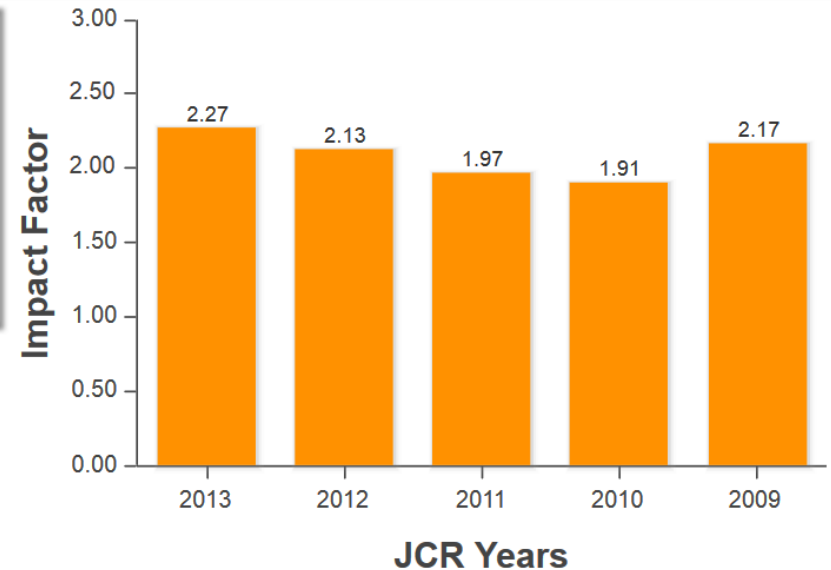
Box Plot

Journal Relationships

JCR Impact Factor

JCR Year	COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS
2013	20/102-Q1
2012	20/100-Q1
2011	23/99-Q1
2010	23/97-Q1
2009	18/95-Q1

SCIE



[View All Years](#)

Zeitschriften können je nach Fachkategorie verschieden gerankt sein



Go to Journal Profile

Master Search



Select Journals

Select Categories

Select JCR Year

2013

Select Edition

SCIE SSCI

Clear

Submit

Journals By Rank

Categories By Rank

All Journal Categories ranked by Number of Journals

Show Visualization +

1 - 25 of 56

Customize Indicators

	Category	Edition	#Journals	Total Cites	Median Impact Factor	Aggregate Impact Factor
15	ETHNIC STUDIES	SSCI	15	8,080	0.667	0.812
16	FAMILY STUDIES	SSCI	39	49,624	1.039	1.257
17	GEOGRAPHY	SSCI	76	79,207	1.059	1.612
18	GERONTOLOGY	SSCI	31	84,749	1.227	2.235
19	HEALTH POLICY & SERVICES	SSCI	70	128,835	1.657	2.106
20	HISTORY	SSCI	72	12,105	0.208	0.276
21	HISTORY & PHILOSOPHY OF SCIENCE	SSCI	42	19,890	0.468	0.770
22	HISTORY OF SOCIAL SCIENCES	SSCI	36	8,586	0.313	0.405
23	HOSPITALITY, LEISURE, SPORT & TOURISM	SSCI	39	39,368	1.049	1.290
24	INDUSTRIAL RELATIONS & LABOR	SSCI	26	18,835	0.736	0.901
25	INFORMATION SCIENCE & LIBRARY SCIENCE	SSCI	84	71,672	0.671	1.414
26	INTERNATIONAL RELATIONS	SSCI	139	41,937	0.676	0.939
27	LAW	SSCI	139	74,282	0.650	0.941
28	LINGUISTICS	SSCI	169	83,419	0.541	0.887



Journals in INFORMATION SCIENCE & LIBRARY SCIENCE

Go to Journal Profile

Master Search

Compare Journals

View Title Changes !

Select Journals

Select Categories

Select JCR Year

2013

Select Edition

SCIE SSCI

Category Schema

Web of Science

Journals By Rank
Categories By Rank

Journal Titles Ranked by Impact Factor
Show Visualization +

Compare Selected Journals
Add Journals to New or Existing List
Customize Indicators

		Full Journal Title	Total Cites	Journal Impact Factor	Eigenfactor Score
<input type="checkbox"/>	1	MIS QUARTERLY	8,705	5.405	0.01037
<input type="checkbox"/>	2	JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION	5,937	3.932	0.01359
<input type="checkbox"/>	3	JOURNAL OF INFORMATION TECHNOLOGY	1,282	3.789	0.00375
<input type="checkbox"/>	4	Journal of Informetrics	1,152	3.580	0.00513
<input type="checkbox"/>	5	JOURNAL OF STRATEGIC INFORMATION SYSTEMS	878	2.571	0.00158
<input type="checkbox"/>	6	Information and Organization	338	2.538	0.00113
<input type="checkbox"/>	7	INFORMATION SYSTEMS RESEARCH	4,393	2.322	0.00711
<input type="checkbox"/>	8	SCIENTOMETRICS	5,129	2.274	0.01144



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- Social Sciences & Humanities (> 5,300 titles.)

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scientometrics **1.**

Journal Title

Limit to: All Subject areas



2.

Show: SJR IPP SNIP ISSN

1 sources found [About Compare journals calculations](#)

Journal	SJR	<input checked="" type="radio"/> Chart <input type="radio"/> Table						
<input checked="" type="checkbox"/> Scientometrics	1.412	SJR	IPP	SNIP	Citations	Documents	% Not cited	% Review

3.

SCImago journal rank by year ?





Chart

Table

SJR

IPP

SNIP

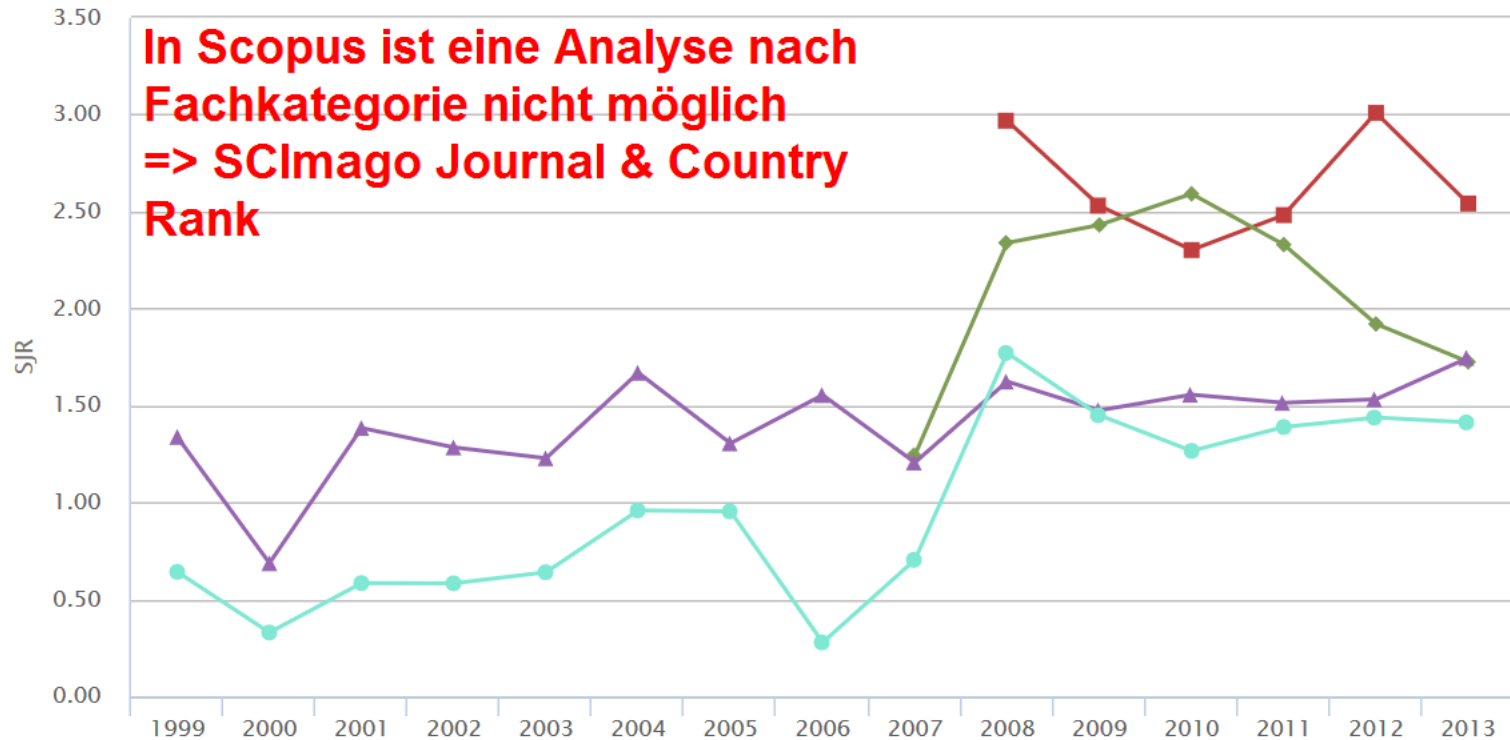
Citations

Documents

% Not cited

% Reviews

SCImago journal rank by year ?



- Journal of Informetrics
- PLoS One
- Journal of the American Society for Information Science and Technology
- Scientometrics

Note: Scopus does not have complete citation information for articles published before 1996.

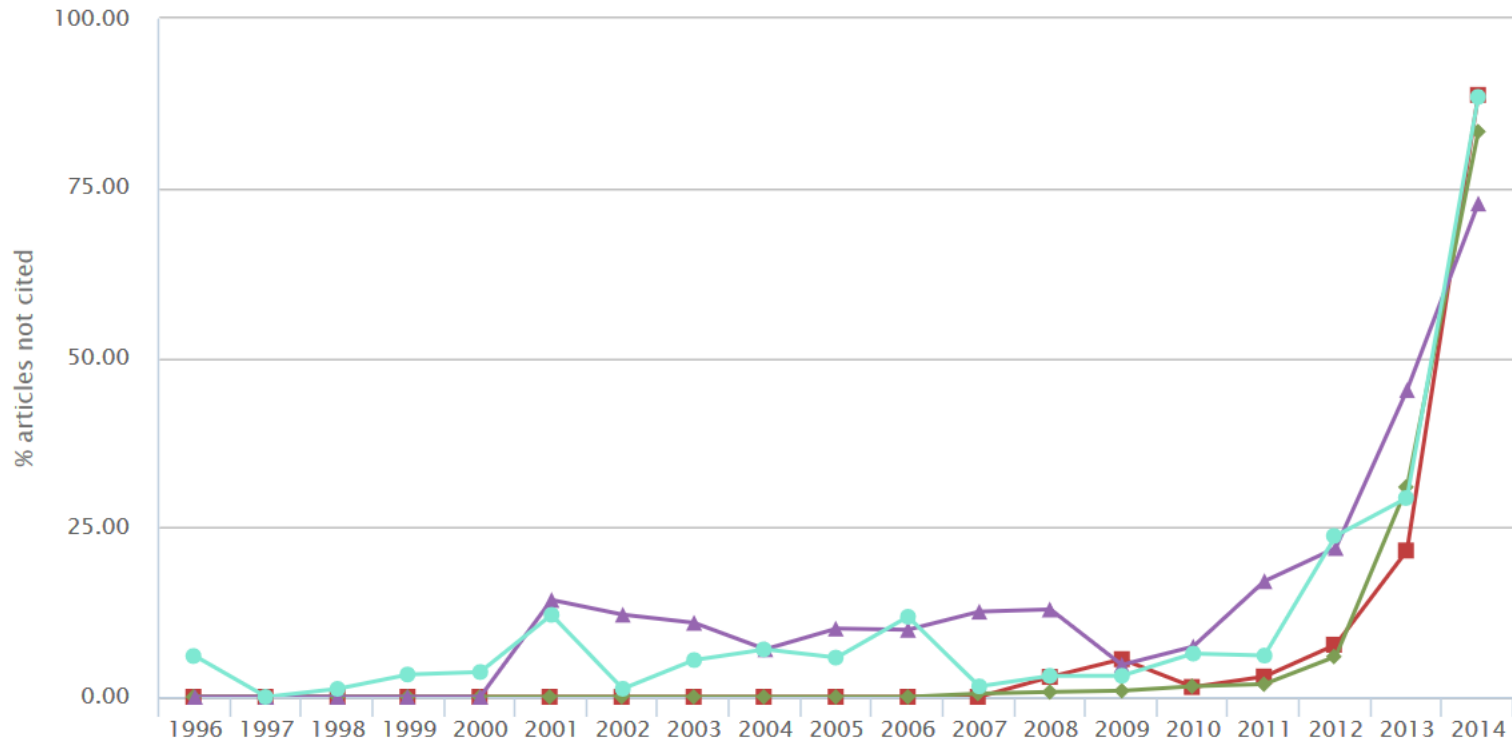
Calculations last updated: 13 Jun 2014



Scopus – Compare Journals

SJR	IPP	SNIP	Citations	Documents	% Not cited	% Reviews
-----	-----	------	-----------	-----------	--------------------	-----------

Percent of published documents not cited by year Exclude journal self citations



- Journal of Informetrics PLoS One
- Journal of the American Society for Information Science and Technology Scientometrics

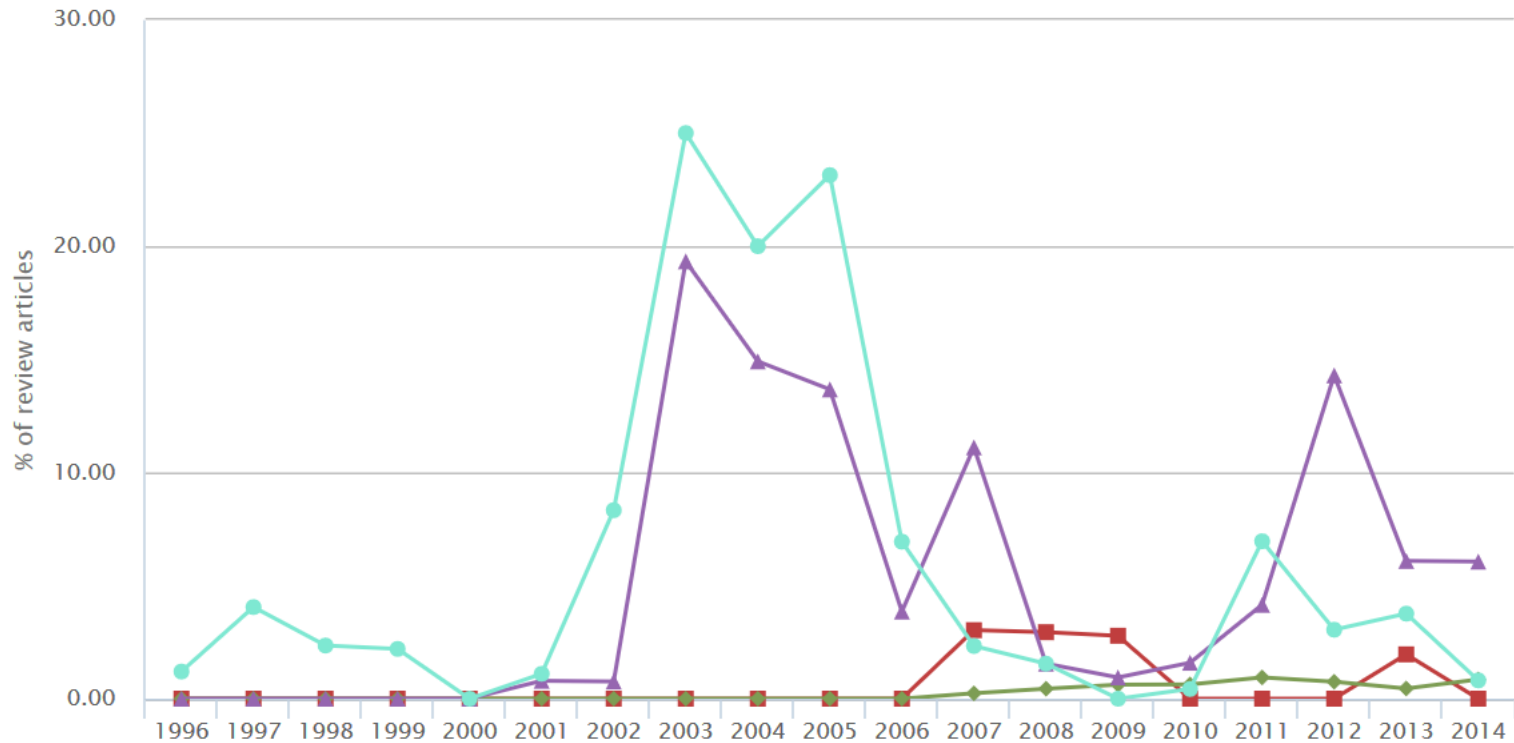
Note: Scopus does not have complete citation information for articles published before 1996.
 Calculations last updated: 02 Dec 2014



Scopus – Compare Journals

SJR	IPP	SNIP	Citations	Documents	% Not cited	% Reviews
-----	-----	------	-----------	-----------	-------------	------------------

Percent of documents that are review articles by year



- Journal of Informetrics
- PLoS One
- Journal of the American Society for Information Science and Technology
- Scientometrics

Note: Scopus does not have complete citation information for articles published before 1996.
Calculations last updated: 02 Dec 2014

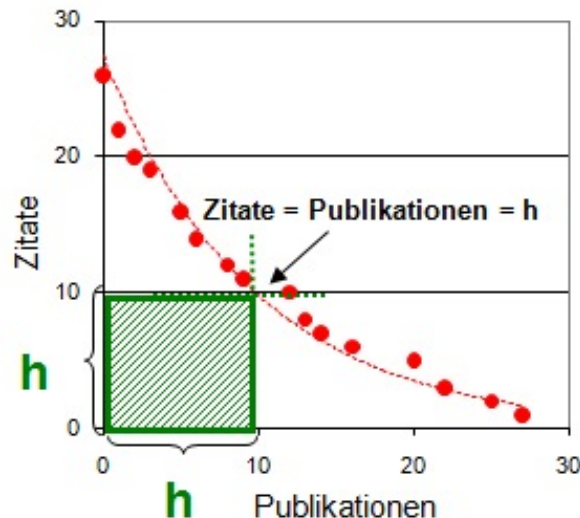


Aufgabe

1. Welche Zeitschrift Ihres Fachgebiets hatte den höchsten JIF 2013?
2. Wie hoch ist dieser?

h-Index (Hirsch-Index)

- Auch Hirschfaktor, Hirsch-Koeffizient oder h-number
- Wurde 2005 vom argentinischen Physiker **Jorge E. Hirsch** zur Bewertung der wissenschaftlicher Leistung eines Autors vorgeschlagen.
- Mass für den Vergleich der **Lebensleistung** von Forschenden



Ein h-Index von beispielsweise 10 bedeutet, dass 10 Publikationen eines Wissenschaftlers mind. 10 Mal zitiert wurden.

Grafik aus dem Blog von Dr. Ulrike Kammann
<http://ukammann.wordpress.com/2009/05/10/der-hirsch-index/>



Vor- und Nachteile des h-Index

Vorteile

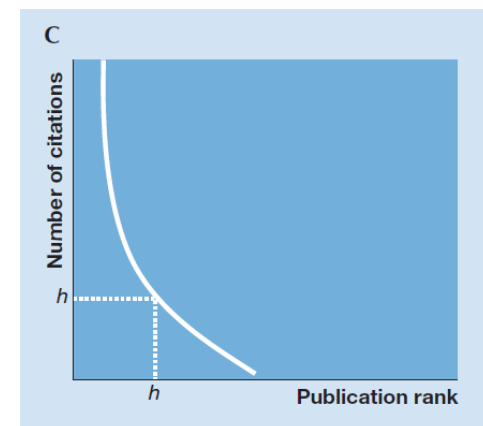
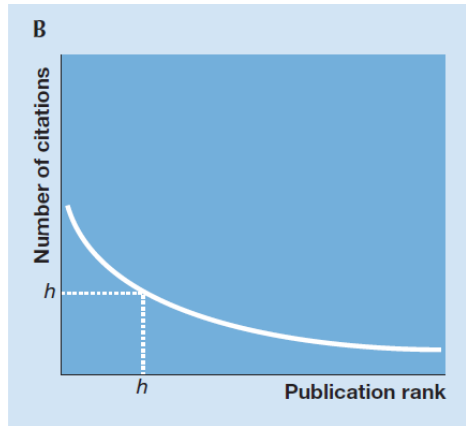
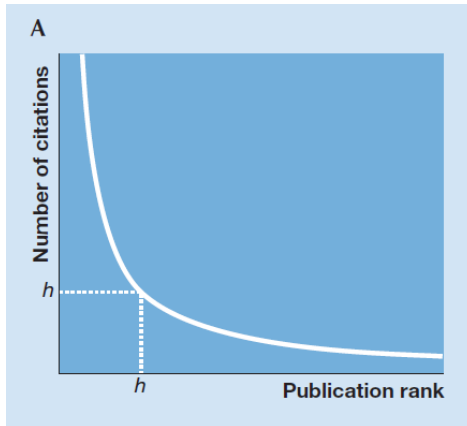
- Robuster Faktor
 - berücksichtigt nur die am häufigsten zitierten Publikationen innerhalb eines Publikationssets
 - reagiert nicht auf extreme 'Ausreisser' (eliminiert „one-hit wonder“)
 - "bestraft" Autoren, die wenig/nicht zitiert werden, aber viel publizieren
- Validität
 - positive Korrelation zwischen Peer-Beurteilung und h-Index und anderen bibliometrischen Indikatoren

Nachteile

- 'bahnbrechende' Arbeiten werden nicht gebührend gewürdigt
- Wird beeinflusst durch die Karrierendauer
 - m-Quotient (Hirsch, 2005):
 $\text{h-Index} / \text{Anz. Jahre seit erster Publ.}$
 - Contemporary h-Index (Sidiropoulos et al., 2007): neue Publ. mehr gewichtet
- Keine "h-Index-Standards"
- Vergleiche nur innerhalb der gleichen Disziplin!
(vom Forschungsfeld abhängig)

h-Graph

- gleicher h-Index hat nicht zwingend die gleiche Bedeutung



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

➔ h-Graph in Scopus hilfreich



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- Basic Search
- Author Search
- Cited Reference Search
- Structure Search
- Advanced Search



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Topic

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All years

From 1900 to 2014

MORE SETTINGS



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Web of Science TM Core Collection

Author Search 

Enter Author Name

Select Research Domain

Select Organization

Last Name / Family Name (Required)


schmid




Initial(s) (Up to 4 allowed)

b



Exact Matches Only 

[+ Add Author Name Variant](#) | [Reset Form](#) |

Select Research Domain 

Finish Search





Current selection(s): schmid b* (1201)

◀ Previous

Select Organization ▶

Finish Search

Select the research domains associated with the author (optional)

Research Domain	Record Count
<input type="checkbox"/> All Research Domains	1201
<input type="checkbox"/> <input checked="" type="checkbox"/> ARTS HUMANITIES	147
<input type="checkbox"/> <input checked="" type="checkbox"/> LIFE SCIENCES BIOMEDICINE	614
<input checked="" type="checkbox"/> AGRICULTURE(7)	<input type="checkbox"/> NEUROSCIENCES NEUROLOGY(31)
<input type="checkbox"/> ALLERGY(3)	<input type="checkbox"/> NURSING(9)
<input type="checkbox"/> ANATOMY MORPHOLOGY(1)	<input type="checkbox"/> NUTRITION DIETETICS(1)
<input type="checkbox"/> ANESTHESIOLOGY(1)	<input type="checkbox"/> OBSTETRICS GYNECOLOGY(11)
<input type="checkbox"/> BIOCHEMISTRY MOLECULAR BIOLOGY(56)	<input type="checkbox"/> ONCOLOGY(43)
<input type="checkbox"/> BIODIVERSITY CONSERVATION(13)	<input type="checkbox"/> ORTHOPEDICS(1)
<input type="checkbox"/> BIOPHYSICS(7)	<input type="checkbox"/> OTORHINOLARYNGOLOGY(1)
<input type="checkbox"/> BIOTECHNOLOGY APPLIED MICROBIOLOGY(5)	<input type="checkbox"/> PALEONTOLOGY(2)
<input type="checkbox"/> CARDIOVASCULAR SYSTEM CARDIOLOGY(6)	<input checked="" type="checkbox"/> PARASITOLOGY(2)
<input type="checkbox"/> CELL BIOLOGY(12)	<input type="checkbox"/> PATHOLOGY(6)
<input type="checkbox"/> DENTISTRY ORAL SURGERY MEDICINE(15)	<input type="checkbox"/> PEDIATRICS(3)
<input type="checkbox"/> DEVELOPMENTAL BIOLOGY(26)	<input type="checkbox"/> PHARMACOLOGY PHARMACY(42)
<input type="checkbox"/> ENDOCRINOLOGY METABOLISM(8)	<input type="checkbox"/> PHYSIOLOGY(6)
<input checked="" type="checkbox"/> ENTOMOLOGY(1)	<input checked="" type="checkbox"/> PLANT SCIENCES(63)
<input checked="" type="checkbox"/> ENVIRONMENTAL SCIENCES ECOLOGY(202)	<input type="checkbox"/> PSYCHIATRY(13)
<input checked="" type="checkbox"/> EVOLUTIONARY BIOLOGY(22)	<input type="checkbox"/> PUBLIC ENVIRONMENTAL OCCUPATIONAL HEALTH(7)
<input type="checkbox"/> FOOD SCIENCE TECHNOLOGY(5)	<input type="checkbox"/> RADIOLOGY NUCLEAR MEDICINE MEDICAL IMAGING(14)
<input checked="" type="checkbox"/> FORESTRY(4)	<input type="checkbox"/> REHABILITATION(1)
<input type="checkbox"/> GASTROENTEROLOGY HEPATOLOGY(11)	<input type="checkbox"/> REPRODUCTIVE BIOLOGY(3)



Author Search Results: 327 Records **69 Record Sets**

You searched for: AU=(schmid b*) AND (SU==(MICROSCOPY OR SPECTROSCOPY OR SCIENCE TECHNOLOGY OTHER TOPICS OR VIROLOGY OR PLANT SCIENCES OR ENVIRONMENTAL SCIENCES ECOLOGY OR MYCOLOGY OR PARASITOLOGY OR EVOLUTIONARY BIOLOGY OR ENTOMOLOGY OR MICROBIOLOGY OR AGRICULTURE OR FORESTRY OR SCIENCE TECHNOLOGY OTHER TOPICS) OR WC=(Multidisciplinary Sciences)) ...[More](#)

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<input type="button" value="View Records"/> <input type="button" value="Add to ResearcherID - I wrote these"/> <input type="button" value="Clear All"/>				
	Author Names	Last Known Organization	Research Areas	Publication Years
1. <input checked="" type="checkbox"/>	SCHMID B Also published as: SCHMID BERNHARD Researcher ID: C-8625-2009 View profile at ResearcherID.com	University of Zurich	ENVIRONMENTAL SCIENCES ECOLOGY (171) PLANT SCIENCES (57) SCIENCE TECHNOLOGY OTHER TOPICS (26) GENETICS HEREDITY (18) EVOLUTIONARY BIOLOGY (17)	1981 - 2013
Records: 231 <input type="button" value="+"/> A Sampling of Publications by this Author:				
2. <input type="checkbox"/>	SCHMID B Also published as: SCHMID BEAT SCHMID BERNHARD	University of Zurich	METEOROLOGY ATMOSPHERIC SCIENCES (65) ENVIRONMENTAL SCIENCES ECOLOGY (7) OPTICS (6) ENGINEERING (5) GEOLOGY (4)	1995 - 2014
Records: 81 <input type="button" value="+"/> A Sampling of Publications by this Author:				



+ A Sampling of Publications by this Author:

67. <input type="checkbox"/>	SCHMID, B	SANDOZ LTD	SCIENCE and TECHNOLOGY - OTHER TOPICS (1)	1984
<p>Records: 1</p> <p>+ A Sampling of Publications by this Author:</p>				
68. <input type="checkbox"/>	SCHMID, B	SANDOZ LTD	SCIENCE and TECHNOLOGY - OTHER TOPICS (1)	1983
<p>Records: 1</p> <p>+ A Sampling of Publications by this Author:</p>				
69. <input type="checkbox"/>	Schmid, B	Undetermined	SCIENCE and TECHNOLOGY - OTHER TOPICS (1)	1913
<p>Records: 1</p> <p>- A Sampling of Publications by this Author:</p> <p>Title: Cinematics and school By: Schmid, B Source: NATURWISSENSCHAFTEN Volume: 1 Pages: 145-146 Published: 1913</p>				
<p>Author Names Last Known Organization ⓘ Research Areas Publication Years</p> <p><input type="checkbox"/> All record sets on page → View Records Add to ResearcherID - I wrote these Clear All</p>				



Distinct Author Summary: 245
(in your subscription)

View the articles authored by:
schmid b*

For: **AUTHOR: schmid b* ...More**

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Search within results for...



Web of Science Categories

- ECOLOGY (182)
- PLANT SCIENCES (59)
- MULTIDISCIPLINARY SCIENCES (31)
- GENETICS HEREDITY (18)
- EVOLUTIONARY BIOLOGY (17)

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Refine

Document Types

- ARTICLE (226)
- REVIEW (10)
- PROCEEDINGS PAPER (4)
- EDITORIAL MATERIAL (4)
- LETTER (2)

Sort by: **Publication Date -- newest to oldest**

Page 1 of 25

Select Page



Save to EndNote online

Add to Marked List

1. **Aesthetic quality of agricultural landscape elements in different seasonal stages in Switzerland**

By: Junge, Xenia; Schuepbach, Beatrice; Walter, Thomas; et al.
LANDSCAPE AND URBAN PLANNING Volume: 133 Pages: 67-77 Published: JAN 2015

Check Access Options

View Abstract

Analyze Results
Create Citation Report

Times Cited:
(from Web of Science Core Collection)

2. **Long-term study of root biomass in a biodiversity experiment reveals shifts in diversity effects over time**

By: Ravenek, Janneke M.; Bessler, Holger; Engels, Christof; et al.
OIKOS Volume: 123 Issue: 12 Pages: 1528-1536 Published: DEC 2014

Check Access Options

View Abstract

Times Cited: 1
(from Web of Science Core Collection)

3. **Selection for niche differentiation in plant communities increases biodiversity effects**

By: Zuppinger-Dingley, Debra; Schmid, Bernhard; Petermann, Jana S.; et al.
NATURE Volume: 515 Issue: 7525 Pages: 108-+ Published: NOV 6 2014

Check Access Options

View Abstract

Times Cited: 1
(from Web of Science Core Collection)

4. **Strong contribution of autumn phenology to changes in satellite-derived growing season length estimates across Europe (1982-2011)**

By: Garonna, Irene; De Jong, Rogier; De Wit, Allard J. W.; et al.
GLOBAL CHANGE BIOLOGY Volume: 20 Issue: 11 Pages: 3457-3470 Published: NOV 2014

Check Access Options

View Abstract

Times Cited: 1
(from Web of Science Core Collection)

5. **Different Assembly Processes Drive Shifts in Species and Functional Composition in Experimental Grasslands Varying in Sown Diversity and Community History**

By: Roscher, Christiane; Schumacher, Jens; Gerighausen, Uta; et al.
PLOS ONE Volume: 9 Issue: 7 Article Number: e101928 Published: JUL 16 2014

Times Cited: 0
(from Web of Science Core Collection)



h-Index in WoS Core Collection

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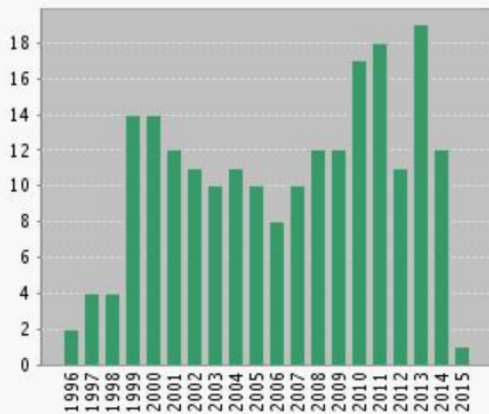
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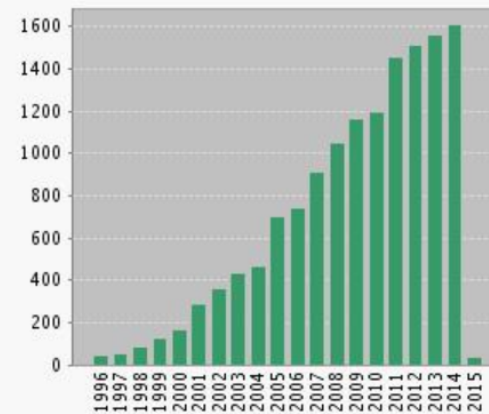
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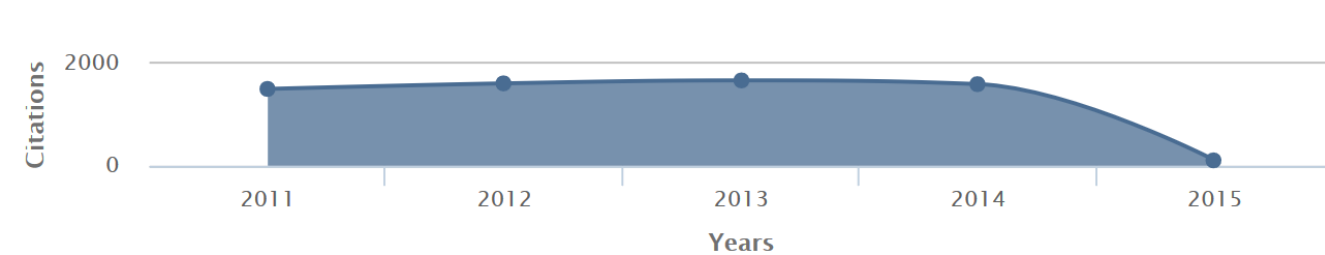
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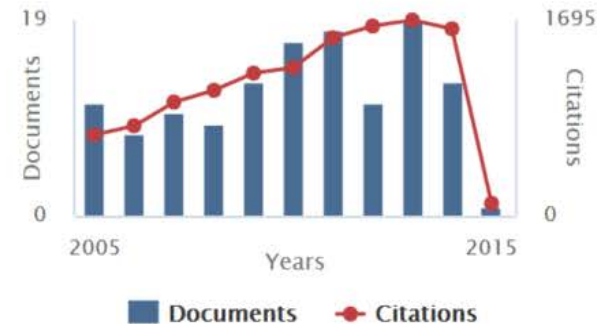
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Author History

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References: 6529

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Original publications

1. Bossdorf, O.^S, Prati, D.^{PI}, Auge, H.^C, **Schmid, B.**^{PI} (2004). Reduced competitive ability in an invasive plant. Ecology Letters 7: 346-353. **4.21**, **4/105** (Ecology 2003); **24**.
2. Dimitrakopoulos, P.G.^S & **Schmid, B.**^{PI} (2004). Positive biodiversity effects increase linearly with biotope space. Ecology Letters 7: 574-583. **4.21**, **4/105** (Ecology 2003); **15**.
3. Fischer, M.^{PI}, van Kleunen, M.^S, **Schmid, B.**^{PI} (2004). Experimental life-history evolution: selection on growth form and its plasticity in a clonal plant. Journal of Evolutionary Biology 17: 331-341. **3.01**, **15/105** (Ecology 2003); **11**.
4. Hooftman, D.A.P.^S, Billeter, R.C.^S, **Schmid, B.**^{PI}, Diemer, M.^{PI} (2004). Genetic effects of habitat fragmentation on common species of Swiss fen meadows. Conservation Biology 18: 1043-1051. **3.28**, **11/105** (Ecology 2003); **6**.



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Bernhard Schmid

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Effects of biodiversity on ecosystem functioning: a consensus of current knowledge DU Hooper, FS Chapin Iii, JJ Ewel, A Hector, P Inchausti, S Lavorel, ... Ecological monographs 75 (1), 3-35	2848	2005
Biodiversity and ecosystem functioning: current knowledge and future challenges M Loreau, S Naeem, P Inchausti, J Bengtsson, JP Grime, A Hector, ... science 294 (5543), 804-808	2316	2001
Plant diversity and productivity experiments in European grasslands A Hector, B Schmid, C Beierkuhnlein, MC Caldeira, M Diemer, ... Science 286 (5442), 1123-1127	1303	1999
Quantifying the evidence for biodiversity effects on ecosystem functioning and services	938	2006



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Simon L. Zeller , Olena Kalinina, Susanne Brunner, Beat Keller , Bernhard Schmid

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Abstract


Background

The introduction of transgenes into plants may cause unintended phenotypic effects which could have an impact on the plant itself and the environment. Little is published in the scientific literature about the interrelation of environmental factors and possible unintended effects in genetically modified (GM) plants.









Methods and Findings

We studied transgenic bread wheat *Triticum aestivum* lines expressing the wheat *Pm3b* gene against the fungus powdery mildew *Blumeria graminis* f.sp. *tritici*. Four independent offspring pairs, each consisting of a GM line and its corresponding non-GM control line, were grown under different soil nutrient conditions and with and without fungicide treatment in the glasshouse. Furthermore, we performed a field experiment with a similar design to validate our glasshouse results.

The transgene increased the resistance to powdery mildew in all environments. However, GM

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Amsler, C; DeGrand, T; Krusche, B (2010). *Quark model (Revised September 2009)*. Journal of Physics G: Nuclear and Particle Physics, 37(7A):184-192.



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