



## **Bibliometrische Doppelagenten im Einsatz**

**Services für Forschende und Forschungsmanagement  
an der Universität Wien**

**Forum Bibliometrie, TU München 2016**

Juan Gorraiz

Christian Gumpenberger



## Agenda

1

- Begründung

2

- Historische Entwicklung und organisatorische Verankerung

3

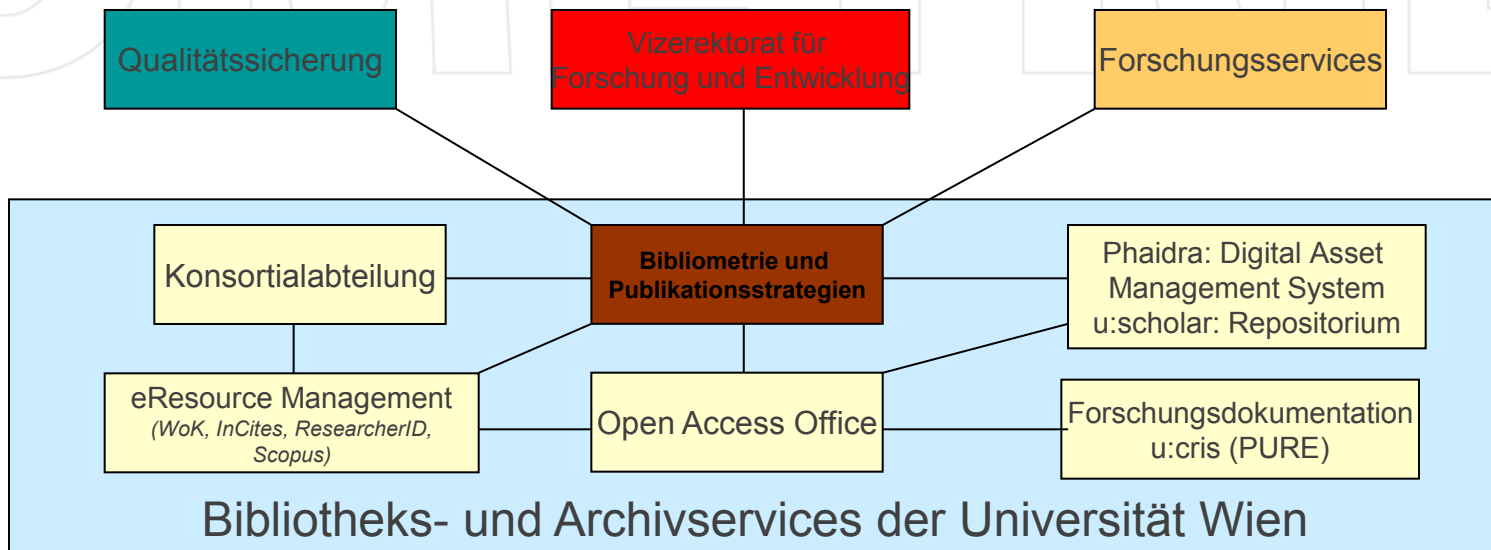
- Aktivitäten



## Von einer bibliometrischen Arbeitsgruppe zur eigenständigen Abteilung

2006 → Etablierung der AG Szientometrie

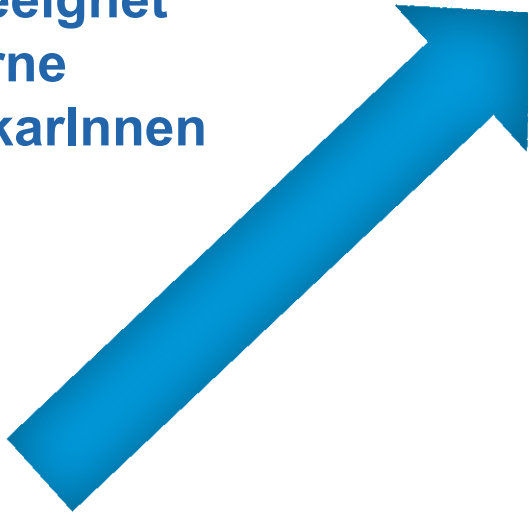
seit 2008 → Abteilung für Bibliometrie und Publikationsstrategien, angesiedelt innerhalb der Bibliotheks- und Archivservices



## New Research Support Services

at Vienna University Library

**Bibliometrie –  
perfekt geeignet  
für moderne  
BibliothekarInnen**



### Bibliometrics

### Bibliometrics E-Theses

- Support for faculty and individual evaluations for Vienna University
- Support for professional appointment procedures for Vienna University
- Expert analyses and evaluations for external institutions
- Organisation of and/or contribution to international bibliometric conferences
- Professional partner for international projects and initiatives
- Workshops, Info-events, publications, talks

### E-Theses

- Documentation of University of Vienna's scientific final papers
- fully automatic transmission from HoPla (the University's automatic plagiarism checking workflow)
- User-friendly search interface: othes.univie.ac.at
- More than 20.000 final papers available, about 80% in full text
- Protection against plagiarism through worldwide publishing in the internet under safeguard of the authors copyrights
- Optional Upload for final papers approved before 2008 (also in scanned PDF)

### u:scholar

- Research output of Vienna University in full text: more than 3.400 articles
- Submitting takes only a few minutes
- Permanent and citable web-address for your document
- Long-term preservation of your document
- Automated indexing in scientific search engines
- Usage statistics for your documents

### Phaidra

- Electronic publishing – rapid – simple, legally protected, and licensed
- Create your own books and collections as well as various presentations and output formats
- Construct Digital Archives – secure and structured – for research data
- Comprehensive metadata in all languages
- Access to the objects can be individually adjusted at any time – and Open Access is always possible

### European Projects

- EOD (E-Books on Demand) @ Culture <http://bibliothek.univie.ac.at/eod> and <http://books2ebooks.eu>
- Tempus, New Library Services of Western Balkan Universities <http://www.westbulnet.com>
- European Libraries [http://www.bibliothek.univie.ac.at/europeana\\_libraries.html](http://www.bibliothek.univie.ac.at/europeana_libraries.html) and <http://www.europeana-libraries.eu>
- OpenAIRE <http://openaire.univie.ac.at> and <http://www.openaire.eu>
- OpenAIREplus <http://openaire.univie.ac.at> and <http://www.openaire.eu>

### u:cris

### u:cris

- Support and trainings for submission of data and reporting
- Quality assurance and validation of metadata
- Support of the internal reporting system for target agreements, Wissensbilanz, faculty reports and reports on internationalization
- Further conceptual and technical development of u:cris
- Close cooperation with uscholar, the Bibliometrics Department and the DA working group
- National and international networking (e.g. euroCRIS)

### Open Access

- Support for all questions regarding Open Access at the University of Vienna by the Open Access Office
- Individual advice and support for researchers
- National and international networking (e.g. OA Network Austria)
- Repository management (uscholar)
- New OA-services (e.g. helpdesk and assistance for Open Journal Systems)
- Awareness, events, workshops, talks

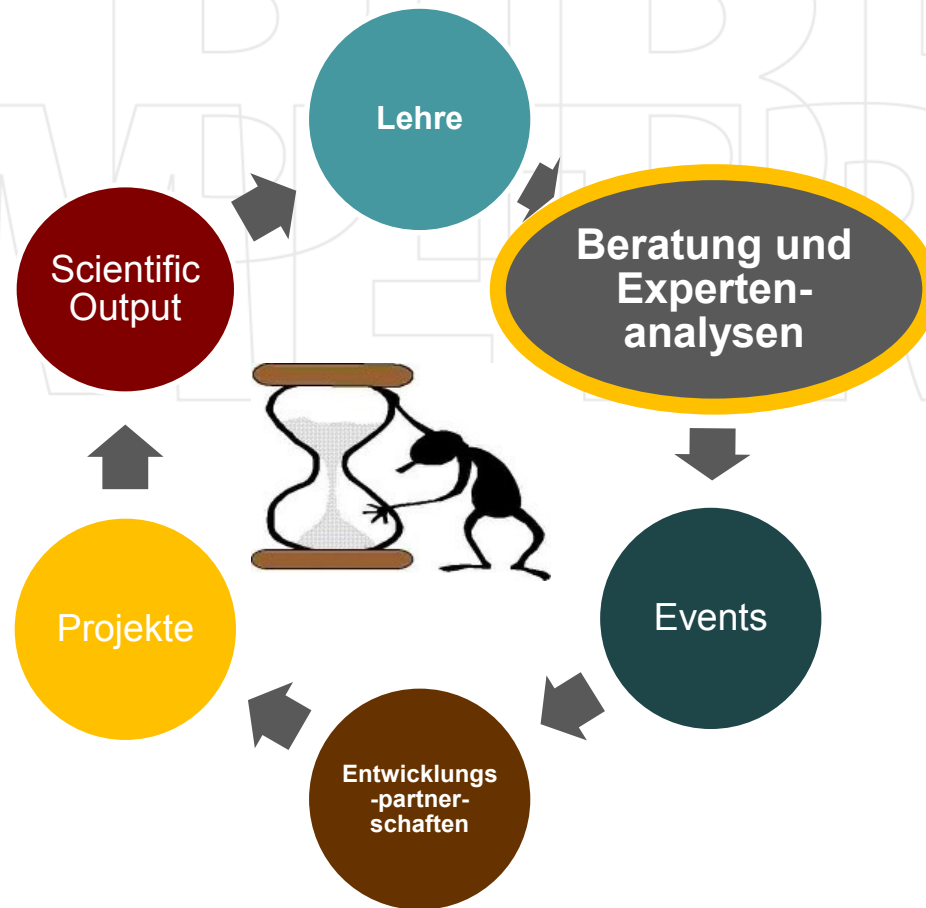
### Open Access

### Phaidra





## Aktivitäten der Bibliometrie Wien





## Beratung und Expertenanalysen



**Unterstützung für  
Forschende der  
Universität Wien  
(Publikations-  
strategien)**



**Expertensuchen  
Expertenanalysen  
Bibliometr. Reports**

- Individualevaluierungen
- Fakultätsbewertungen
- Berufungsverfahren



**Optimierung der  
Forschungsdokumen-  
tation (u:cris) und von  
Open Access  
Aktivitäten**

**Unterstützung von  
strategischen  
Entscheidungen  
in der Bibliothek**



**(Inter-)nationale  
Expertenanalysen,  
z.B. für Forschungs-  
förderer,  
Forschungstiftungen,  
Universitäten**





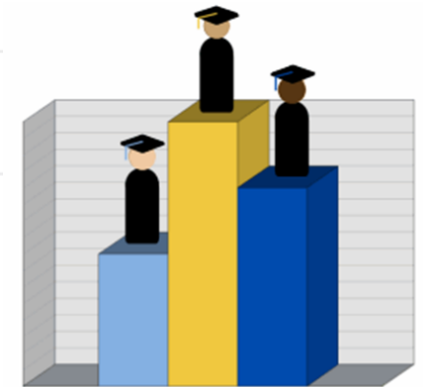
## Custom-tailored services

Bibliometric Services for:

a) scientists & b) administration (Rectorate & Quality Assurance)

In order to:

- foster a positive attitude towards bibliometrics
- support scientists in 'publish or perish' dilemma: planning a scientific career and developing adequate publication strategies (especially for young scientists)
- enhance the visibility: the institutional one (Rankings & Web presence) as well as the individual one (adoption of permanent identifiers, help and assistance in the promotion game)
- prevent administration from bad use of bibliometric practices and incorrect interpretations (support informed peer review)



Website:

<http://bibliometrie.univie.ac.at>





# BENEFITS für Forschende

- Wer sind die “**key players**” (authors, institutions, countries, etc.) im eigenen Feld?
- Welche “**hot topics**,” und „**hot papers**“ gibt es im eigenen Feld (**emergence**)?
- Welche “**citation classics**” gibt es im eigenen Feld (**knowledge basis**)?
- Sind die eigenen Referenzen “**state-of-the-art**”?
- Wie sichtbar sind die eigenen Publikationen? Wie kann deren **Sichtbarkeit** erhöht werden (**publication strategies**)?
- Wie groß ist der **Impact** der eigenen Publikationen (alert services)?
- Wieviele Zitationen sind nötig, um zu den Besten zu gehören (**excellence**)?
- Wer ist ein potenzieller **Kooperationspartner** oder auch Konkurrent?
- Wie verhält sich der eigene Forschungsoutput im Vergleich zu vorigen (**benchmarking**)?
- Wer könnte die eigene Forschung fördern (**funding agencies**)?





## Bibliometrische Reports für einzelne Forschende

- **Individualevaluierung** mancher ProfessorInnen nach fünf Jahren gemäß Arbeitsvertrag
- **Bibliometrischer Report** in Abhängigkeit von Disziplin vom Rektorat beauftragt
  - *Immer **nur komplementär** zur Selbsteinschätzung der Forschenden und mit deren Einverständnis!*
- Nach Fertigstellung und Freigabe durch zu evaluierende Person Überprüfung und Ergänzung durch Qualitätssicherung, danach Weiterleitung an Rektorat und Peers
- **Peers** sollten primär die Zeit auf **qualitative Aspekte** verwenden





"Surely you were aware when you accepted the position, Professor,  
that it was publish or perish."

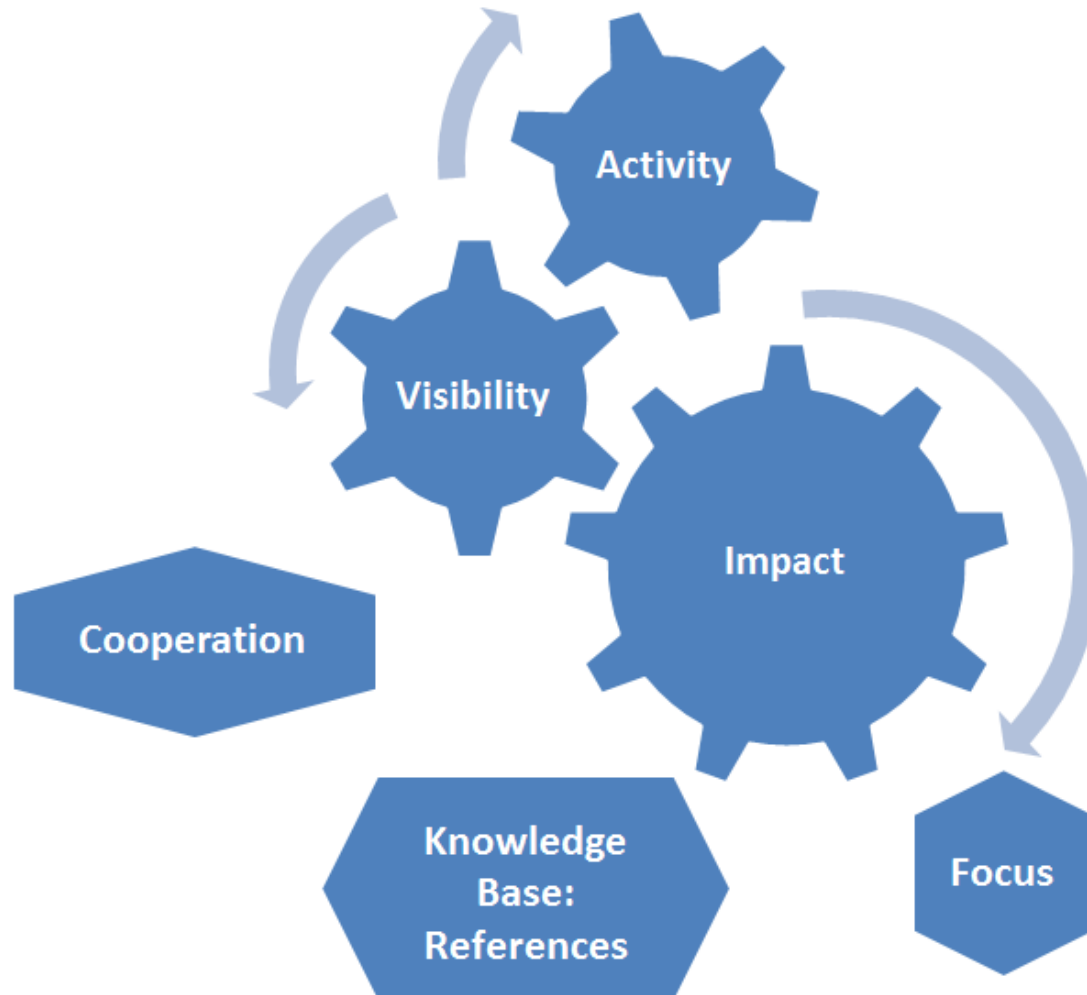


## Bibliometrische Reports für einzelne Forschende - Prozedere

- **Interview** mit zu evaluierendem/r Forschenden
- Bibliometrische Analyse:
  - **Abdeckungsanalyse** gemäß Publikationsliste
  - **Activity / Visibility (IF) / Impact** (Top Percentiles)
  - Analyse der **zitierenden Dokumente**
  - **Kooperationsanalyse** auf verschiedenen Ebenen (Länder, Institutionen, KoautorInnen)
  - **Referenzenanalyse**
- Besprechung mit zu evaluierendem/r Forschenden
- Optionale Analysen
  - “**hot topic delineation**”
  - **Altmetrics** Analyse



## Multidimensionaler Ansatz





## Bibliometric Profiles: measures & indicators

Activity	Visibility (publication strategies)	Impact (Citations)	Focus
# Publications & Trend lines	# indexed in Databases (coverage)	# citations (total, mean, maximum)	maps based on titles & abstracts, descriptors, keywords and identifiers
# Document Types	# & % English	Normalised Citation Score (CNCI, Crown-Indicator)	interdisciplinarity according to Subject Categories
# Authors (Mean, Maximum, # single-authored)	# in Tops Journals (according IF, SJR, SNIP or journal's lists or rankings)	# & % Tops in Percentiles (Top 1%, Top 10%)	
# Author's role (first, last, corresponding)	aggregate & median category impact factor	h-index & variations (g,m); i-indices	
# patents	# Open Access	% self-citations	
# research data sets ?	books ?	analysis of citing documents	



## Bibliometric Profiles: measures & indicators

Cooperation	Other Metrics	Knowledge Base	Self-marketing in Internet
based on <b>Affiliations:</b> intensity (# publs) & impact (# cits, cits/publ, CNCI, % Top10%, %Top 1%)	usage metrics: views & downloads	reference analyses (cited documents)	in repositories
% international collaboration % domestic collaboration % industry collaboration	altmetrics (captures, mentions, social media, etc)	state-of-the-art (PY of cited documents), most cited document types, most cited journals	in Google Scholar, in Wikipedia
network analyses at different levels (scientists, institutions and countries)		benchmarking with other leading scientists in the same research field	in mailing lists, blogs, reference managers and other social media





## Auszug aus einem Report: Abdeckung in Datenquellen

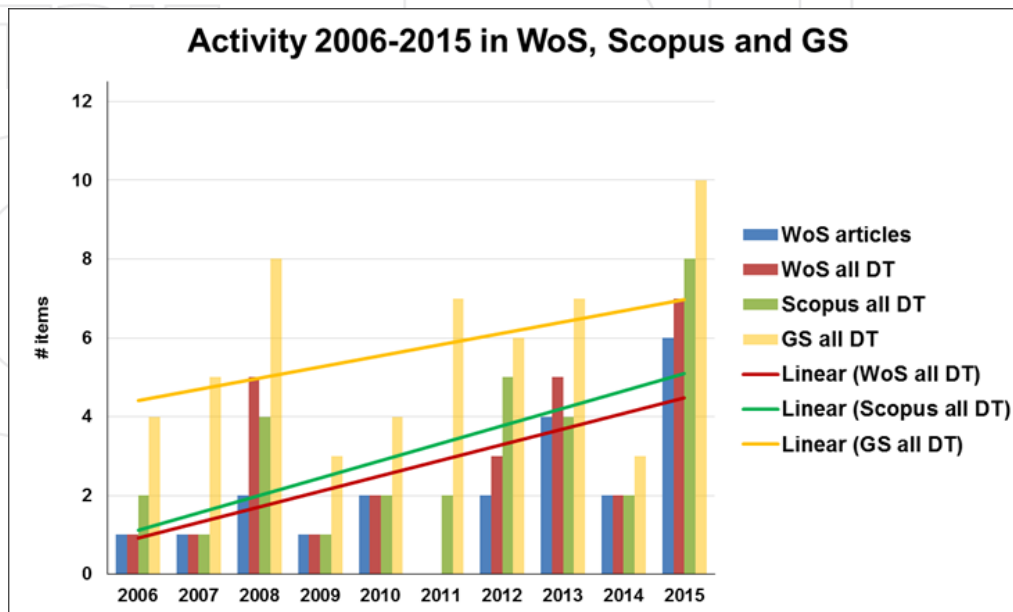
document type	PL	WoS	Wos in PL	% WoS in PL	Scopus	Scopus in PL	% Scopus in PL	GS	GS in PL	% GS in PL
articles in refereed journals	32	22	22	68.75%	26	26	81.25%	31	30	93.75%
book chapters (refereed)	30	0			1	1	3.33%	17	17	56.67%
editions	2	0			1	1	50%	2	2	100%
<i>other</i>	23	5	4	17.39%	3	3	13.04%	7	6	26.09%
all documents	87	27	26	29.89%	31	31	35.63%	57	55	63.22%
all excluding <i>other</i>	64	22	22	34.38%	28	28	43.75%	50	49	76.56%

PY = 2006-2015										
Publication type	List	WoS	In List	% List	Scopus	In List	% List	GS	In List	% List
<b>Articles in refereed Journals</b>	20	13	11	55%	16	15	75%	21	19	95%
<b>Conference Proceedings and Book Chapters</b>	63	35	34	53.97%	49	46	73.02%	64	57	90.48%
<b>Others</b>	41	2	2	4.88%	4	3	7.32%	29	19	46.34%
<b>All documents</b>	124	50	47	37.90%	69	64	51.61%	114	95	76.61%
<b>All excl. Others</b>	83	48	45	54.22%	65	61	73.49%	85	76	91.57%

Degree of coverage informs about the significance of the analysis



## Auszug aus einem Report: Aktivitätsanalyse



# co-authors

The **average number of co-authors** for the overall period 2006-2015 in WoS is 6.6 and has remained constant in both half periods: in 2006-2010 (with a maximum of 36) and in 2011-2015 (with a maximum of 41).

author position	2006-2015	2006-2010	2011-2015	2006-2015	2006-2010	2011-2015
single author	3	3	0	12%	23%	0%
first author	21	9	12	84%	69.23%	100%
last author	0			0%		
corresponding	22	12	10	88%	92.31%	83.33%
neither	1	1	0	4%	7.69%	0%

author's role

Funding information

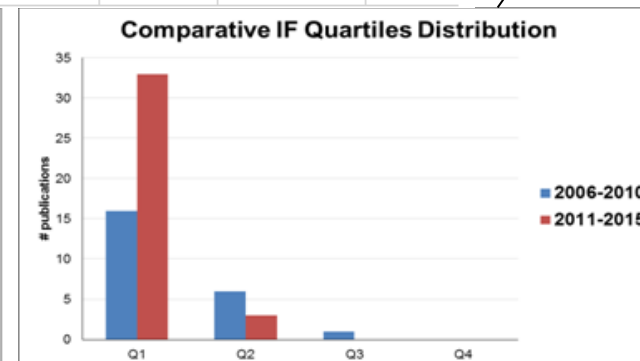
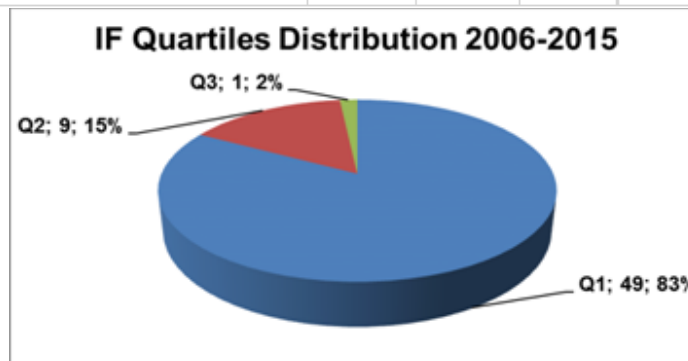
Furthermore, 11 out of 17 records (~65%) indexed in WoS from the second period 2011-2015 do contain data in the field 'Funding Agencies'. Mentioned funding agencies in this field are predominantly different Austrian and German Ministries.

## Auszug aus einem Report: Sichtbarkeitsanalyse

journal title	# items 2006- 2015	# items 2006- 2010	# items 2011- 2015	IF	IF quartile 2015	total # citations	average # citations per publication	CNCI
PALAIOS	6	4	2	1.59	Q2	55	9.17	0.88
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY	6	2	4	2.53	Q1	50	8.33	0.72
BIOGEOSCIENCES	4	0	4	3.70	Q1	39	9.75	2.36
FACIES	3	2	1	1.69	Q2	23	7.67	1.06
JOURNAL OF EXPERIMENTAL MARINE BIOLOGY AND ECOLOGY	3	2	1	1.80	Q2	51	17	1.00
CHEMICAL GEOLOGY	2	0	2	3.48	Q1	15	7.50	1.83
LETHAIA	2	2	0	1.47	Q2	10	5	0.33
MARINE ECOLOGY PROGRESS SERIES	2	1	1	2.36	Q1	38	19	1.97
MARINE BIOLOGY	2	2	0	2.38	Q1	22	11	0.65

Most frequently used  
publication channels:  
comparative analysis

IF quartiles  
distribution:  
timeline





# Auszug aus einem Report: Zitationsanalyse – Teil 1: Main Indicators

all DTs, PY=2010-2014	WoS	Scopus	ADS Total	ADS Refereed
# publications <sup>1</sup>	63	60	115	59
cited publications	50	49	72	53
total citations	582	481	979	874
maximum citations	95	93	111	111
citations/cited document	11.64	9.82	13.60	16.49
h-index <sup>3</sup>	12	11	16	15
i10-index	18	14	28	26
i100-index	0	0	1	1

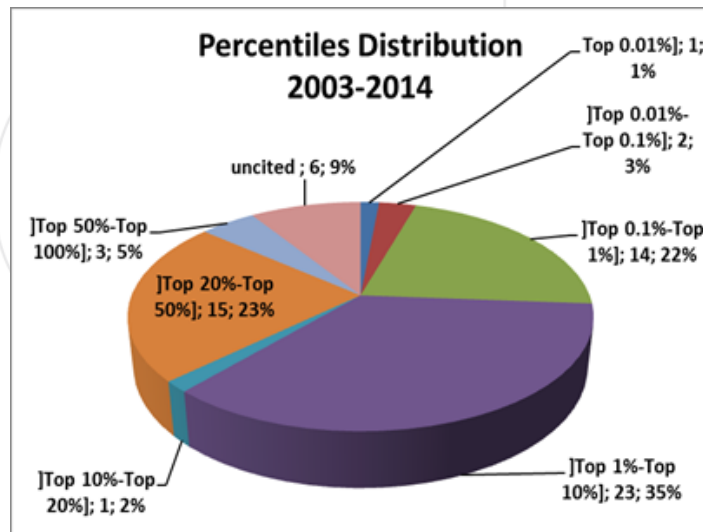
In different data sources

And for different document types

% Self-citations as control data

			proceedings papers	articles in refereed journals	book chapters	editions	other	all DT	h-index	i10
WoS	publications	# total	28	17	2	0	5	52	4	0
		# cited	10	12	1		1	24		
	citations	# total	16	35	1		1	53		
		mean cited	1.60	2.92	1		1	2.21		
		max	4	7	1		1	7		
Scopus	publications	# total	58	21	0	0	6	85		
		# cited	26	16			1	43		
	citations	# total	109	84			1	194		
		mean cited	4.19	5.25			1	4.51		
		max	25	18			1	25		
GS	publications	# total	94	22	5	3	7	131	15	23
		# cited	59	18	2	0	3	82		
	citations	# total	490	181	11		8	690		
		mean cited	8.31	10.06	5.50		3.50	8.41		
		max	49	33	8		6	49		

## Auszug aus einem Report: Zitationsanalyse – Teil 2 - Normalized Citation Counts



publication year	# items in WoS	CICI	CICI expected	% items in top 1%	% items in top 1% expected	% items in top 10%	% items in top 10% expected	% International Collaborations
2006	4	4.95	1	25%	1%	50%	10%	75%
2007	3	2.85	1	0%	1%	33.33%	10%	33.33%
2008	5	2.04	1	0%	1%	20%	10%	40%
2009	4	1.65	1	0%	1%	25%	10%	100%
2010	7	2.19	1	14%	1%	28.57%	10%	85.71%
2011	6	1.19	1	0%	1%	16.67%	10%	83.33%
2012	5	1.39	1	0%	1%	20%	10%	40%
2013	8	4.35	1	25%	1%	37.50%	10%	100%
2014	9	1.56	1	0%	1%	22.22%	10%	88.89%
2015	8	2.19	1	12.50%	1%	25%	10%	50%
2006-2010	23	2.63	1	8.70%	1%	30.43%	10%	70%
2011-2015	36	2.23	1	8.33%	1%	25%	1%	75%
<b>2006-2015</b>	<b>59</b>	<b>2.39</b>	<b>1</b>	<b>8.47%</b>	<b>1%</b>	<b>27.12%</b>	<b>10%</b>	<b>72.88%</b>

The “Category Normalized Citation Impact” provides the citation impact (citations per paper) normalized for subject, year and document type. Citation percentiles were calculated according to the corresponding WoS Core Collection Categories in InCites.

Percentile (or Top) 10% provides the number and percentage of the Top 10% most cited papers in the corresponding category and for the corresponding publication year.

The levels selected for listing by field and year are 1.0% and 10%.

Top 10% is usually considered as a measure for “excellence”.

## Auszug aus einem Report: Citing analysis

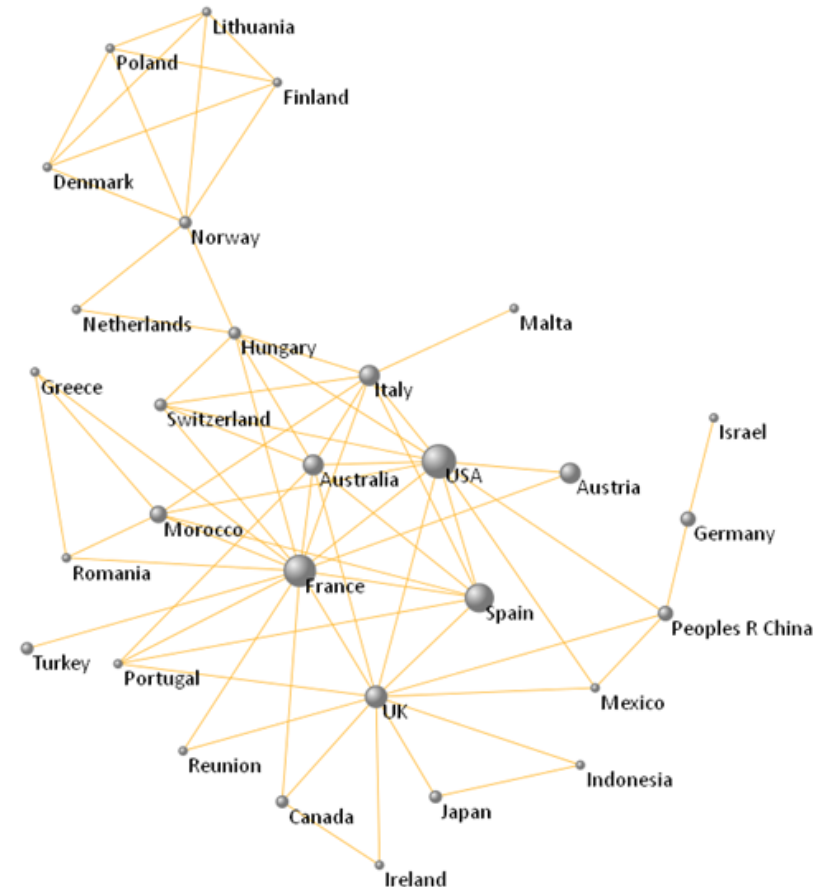
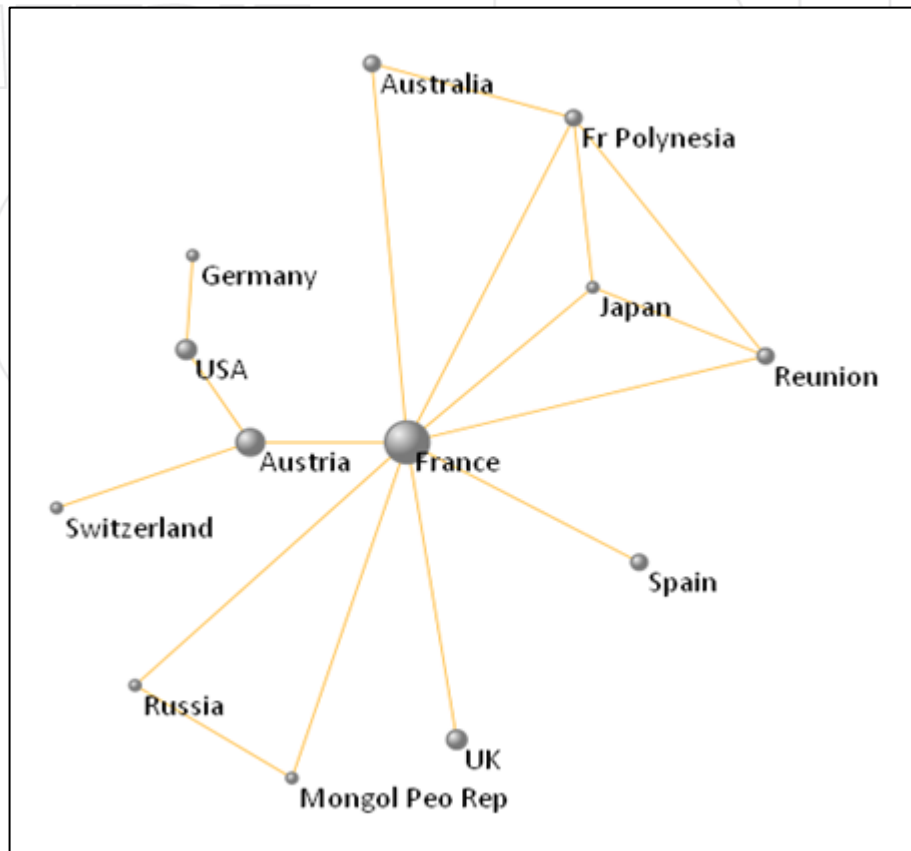
Top citing  
journals,  
institutions &  
countries

Short citation  
analysis of the  
citing documents

Publications indexed in WoS in 2011-2015 (n=36) were cited by a total of 544 documents (by end of June 2016). According to a citation analysis performed via InCites, these citing documents have a high impact too, as their total CNCI score of ~1.8, and percentiles of ~16% in Top 10% and 3.4% in Top 1% corroborate.

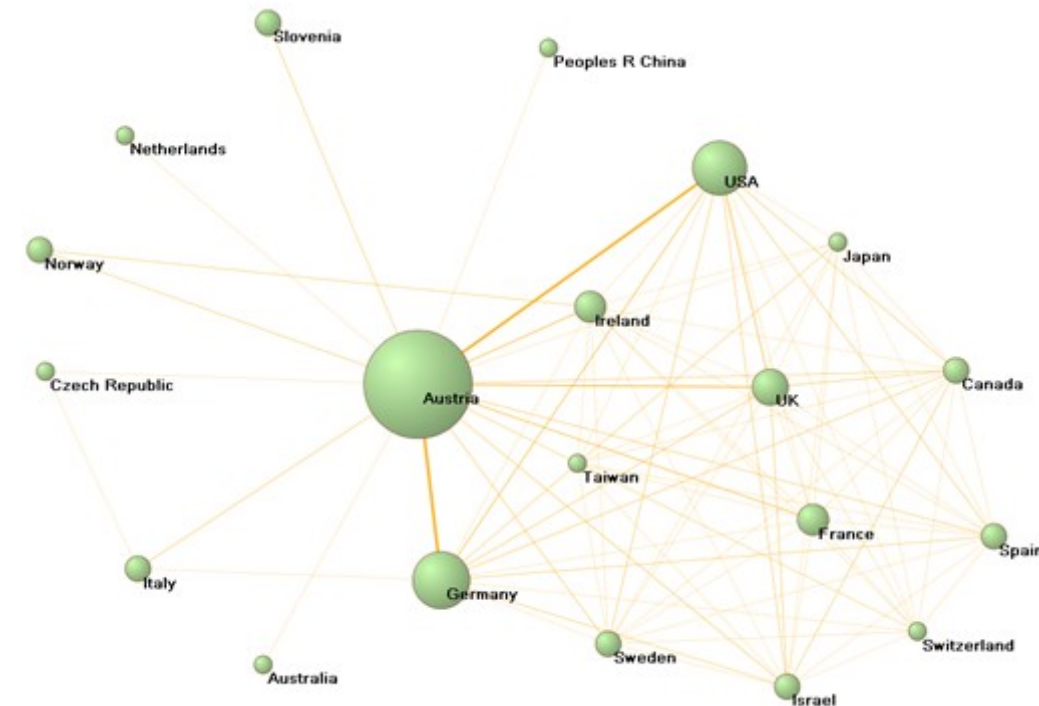
	rank	journal / institution / country	# items	% of 544
top 10 citing journals	1	PLOS ONE	51	9.38%
	2	FRONTIERS IN MICROBIOLOGY	39	7.17%
	3	SCIENTIFIC REPORTS	15	2.76%
	4	APPLIED AND ENVIRONMENTAL MICROBIOLOGY	13	2.39%
	5	FEMS MICROBIOLOGY ECOLOGY	13	2.39%
	6	GENOME BIOLOGY AND EVOLUTION	11	2.02%
	7	ENVIRONMENTAL MICROBIOLOGY	9	1.65%
	8	NATURE COMMUNICATIONS	9	1.65%
	9	BMC GENOMICS	8	1.47%
	10	FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY	8	1.47%
top 10 citing institutions	10	ISME JOURNAL	8	1.47%
	10	PROC. OF THE NAT. ACADEMY OF SCIENCES OF THE USA	8	1.47%
	1	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	32	5.88%
	2	UNIVERSITY OF VIENNA	32	5.88%
	3	UNIVERSITY OF CALIFORNIA SYSTEM	25	4.60%
	4	MAX PLANCK SOCIETY	24	4.41%
	5	UNIVERSITY OF LAUSANNE	22	4.04%
	6	UNIV HOSP CTR	21	3.86%
	7	UNITED STATES DEPARTMENT OF ENERGY DOE	17	3.13%
	8	HELMHOLTZ ASSOCIATION	14	2.57%
9	UNIVERSITY OF CALIFORNIA BERKELEY	13	2.39%	
10	CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS CSIC	12	2.21%	
top 10 citing countries	1	USA	172	31.62%
	2	GERMANY	108	19.85%
	3	FRANCE	51	9.38%
	4	ENGLAND	44	8.09%
	5	SWITZERLAND	42	7.72%
	6	AUSTRIA	40	7.35%
	7	CANADA	29	5.33%
	8	SWEDEN	27	4.96%
	9	PEOPLES R CHINA	25	4.60%
	10	AUSTRALIA	23	4.23%
	rank	journal / institution / country	# items	% of 544

## Auszug aus einem Report: Cooperation vs Impact – (country level)



Is impact broader than pure collaboration?

## Auszug aus einem Report: Kooperationsanalysen - 1. Country level



Top collaborating countries

Country	# items in WoS	% of all items	times cited	CNCI	% items in Top 1%	% items in Top 10%
GERMANY	21	35.59%	1431	4	23.81	42.86
USA	13	22.03%	300	2.65	15.38	38.46
UNITED KINGDOM	6	10.17%	199	3.25	16.67	50
ENGLAND	6	10.17%	199	3.25	16.67	50
FRANCE	4	6.78%	518	6.02	50	50
NETHERLANDS	3	5.08%	457	5.06	33.33	33.33
IRELAND	3	5.08%	85	4.19	33.33	66.67

Map informs about network and type of collaboration (bilateral, etc.)



## Auszug aus einem Report: Kooperationsanalysen - 2. Institution level & 3. Author level

### Top collaborating institutions

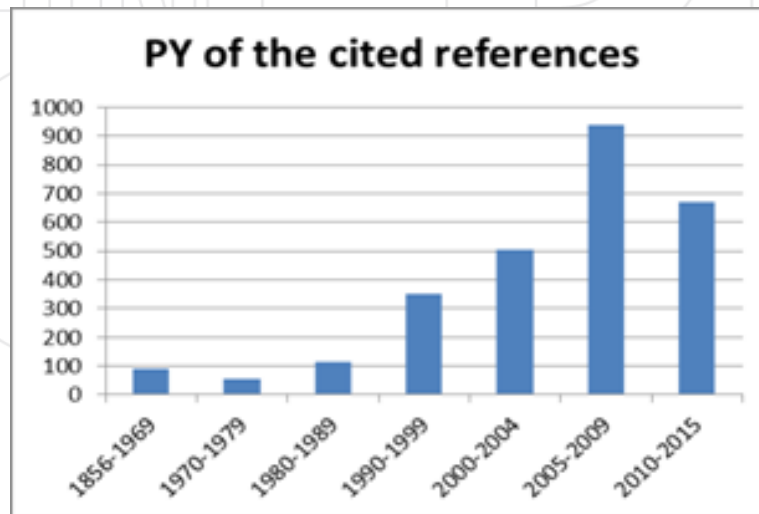
institution	location	# items in WoS	% of all items 2006-2015	times cited	CNCI	% items in Top 10%	% items in Top 1%
Russian Academy of Sciences	RUSSIA	17	15.74%	509	3.11	35.29%	5.88%
University of Bodenkultur Wien	AUSTRIA	16	14.81%	455	3.1	50%	12.50%
University of Bergen	NORWAY	10	9.26%	141	2.71	40%	0%
University of South Bohemia Ceske Budejovice	CZECH REPUBLIC	10	9.26%	69	3.37	30%	10%
University of Hannover	GERMANY	10	9.26%	59	2.65	30%	0%
Swedish University of Agricultural Sciences	SWEDEN	8	7.41%	297	2.65	50%	0%
Swiss Federal Institute of Technology Zurich	SWITZERLAND	7	6.48%	258	3.29	71.43%	14.29%
Chinese Academy of Sciences	CHINA	7	6.48%	122	1.45	0%	0%
International Institute for Applied Systems Analysis	AUSTRIA	7	6.48%	110	2.97	28.57%	14.29%
Helmholtz Association	GERMANY	6	5.56%	347	4.64	33.33%	16.67%
Austrian Research Center	AUSTRIA	6	5.56%	299	3.63	83.33%	0%
University of Innsbruck	AUSTRIA	6	5.56%	162	3.12	50%	16.67%
University of Gothenburg	SWEDEN	6	5.56%	38	1.83	0%	0%

### Summary author network

Scientist collaborated with a total of 102 authors in the period 2006-2015.

The **most collaborative author**, XXX (47 co-publications), contributes with ~71% to the overall publication output 2006-2015, followed by YYY and ZZZ with 9 and 8 co-co-publications respectively. Only these three co-authors were involved with more than 10% of the total number of publications. About half of the co-authors were only part of a single publication.

## Auszug aus einem Report: Referenzenanalysen



State-of-the-art of the references:  
comparison with cited half-life in the  
research field

Summary: Approximately 40% of the cited references (n=~1800) are non-journal contributions (monographs, book chapters, etc.).

JOURNAL TITLE ABBREVIATION	# cited references	# citations	IF Quartile 2015
J Bacteriol	109	186	Q2
Nucleic Acids Res	99	155	Q1
P Natl Acad Sci Usa	74	110	Q1
Appl Environ Microb	55	101	Q1
<i>Infect Immun</i>	70	90	Q1
Plos One	43	72	Q1
<i>Bioinformatics</i>	37	67	Q1
Mol Biol Evol	41	67	Q1
Science	39	66	Q1
Mol Microbiol	35	55	Q2
Environ Microbiol	24	47	Q1
Nature	34	43	Q1
Annu Rev Microbiol	11	40	Q1
<i>Int J Syst Evol Micr</i>	17	32	Q3

Most cited sources



Most cited by the scientist

# Auszug aus einem Report: Referenzenanalysen

BIBLIOMETRIE

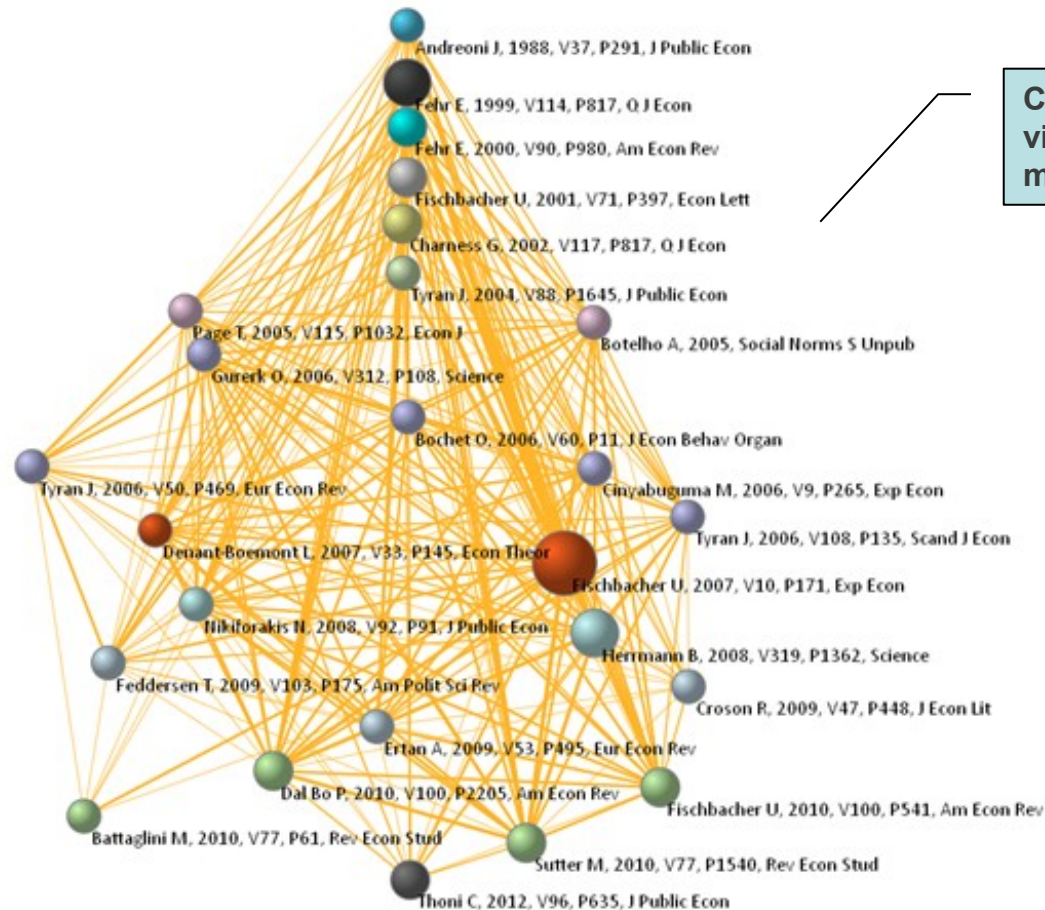
Cited references	# citations
Kippenberg T, 2008, SCIENCE	18
O'Connell A, 2010, NATURE	17
Marshall W, 2003, PHYS REV LETT	16
Chan J, 2011, NATURE	15
Thompson J, 2008, NATURE	14
Teufel J, 2011, NATURE	14
Marquardt F, 2007, PHYS REV LETT	12
Marquardt F, 2009, PHYSICS	12
Gigan S, 2006, NATURE	11
Wilson-Rae I, 2007, PHYS REV LETT	10
Groblacher S, 2009, NATURE	10
Groblacher S, 2009, NAT PHYS	10
Romero-Isart O, 2010, NEW J PHYS	10
Aspelmeyer M, 2010, J OPT SOC AM B	9
Romero-Isart O, PHYS REV LETT	9
Genes C, 2008, PHYS REV A	9
Arcizet O, 2006, NATURE	9
Vitali D, 2007, PHYS REV LETT	8
Bose S, 1997, PHYS REV A	8
Verhagen E, 2012, NATURE	8
Teufel J, 2011, NATURE	8
Chang D, 2010, P NATL ACAD SCI USA	8
Regal C, 2008, NAT PHYS	7
Barker P, 2010, PHYS REV A	7
Romero-Isart O, 2011, PHYS REV A	7
Cole G, 2008, APPL PHYS LETT	7

Authors	Year	Source title	in Scopus Cited by
Born M., Wolf E.	1980	Principles of Optics	20212
Jackson J.D.	1975	Classical Electrodynamics	16965
Nielsen M.A., Chuang I.L.	2000	Quantum computation and quantum information	13299
Palik E.D.	1985	Handbook of Optical Constants of Solids	12183
Bohren C.F.		Absorption and scattering of light by small particles	11601
Landau L.D., Lifshitz E.M.	1980	Statistical Physics	5986
Bennett C.H. et al	1993	Physical Review Letters	5977
Goldstein H.	1980	Classical Mechanics	5940
Landau L.D., Lifshitz E.M.	1986	Theory of Elasticity	5608
Einstein A. et al	1935	Physical Review	5076

Most cited in the data source



## Auszug aus einem Report: Referenzenanalyse



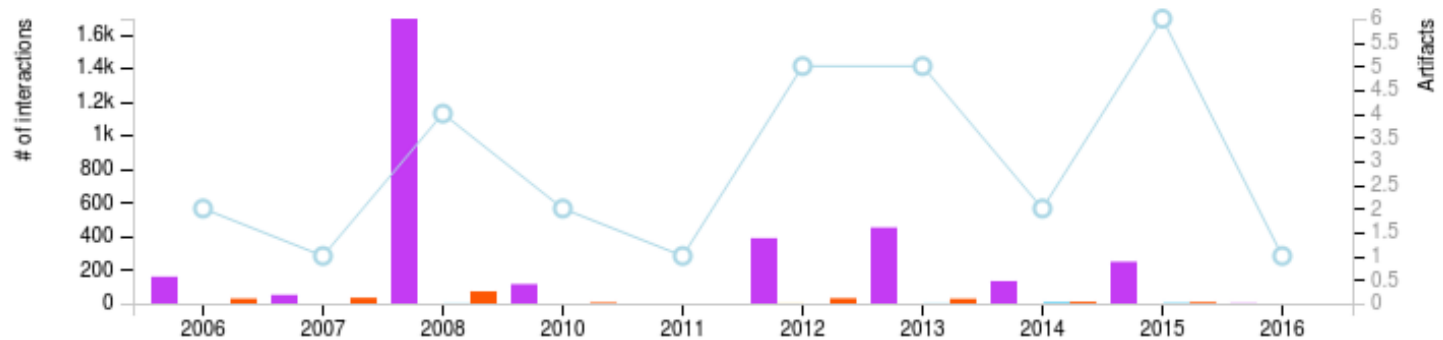






# Neue Metriken: Auszug – Teil 1

Metrics by publication year

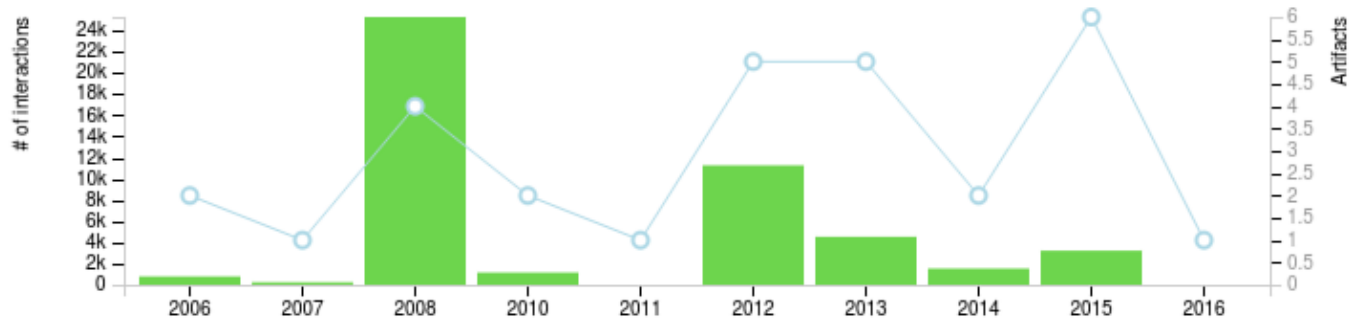


	Captures	Mentions	Social Media	Citations	Artifacts
2006	159	-	-	29	2
2007	51	-	-	34	1
2008	1691	-	1	72	4
2010	115	-	-	6	2
2011	-	-	-	-	1
2012	388	1	-	31	5
2013	451	-	1	28	5
2014	133	-	6	10	2
2015	248	-	3	8	6
2016	2	-	-	-	1



## Neue Metriken: Auszug – Teil 2

Usage by publication year



	Usage	Artifacts
2006	785	2
2007	237	1
2008	25276	4
2010	1155	2
2011	-	1
2012	11274	5
2013	4532	5
2014	1534	2
2015	3222	6
2016	-	1





## Neue Metriken: Vergleiche (PlumX)

Physics



Life Sciences



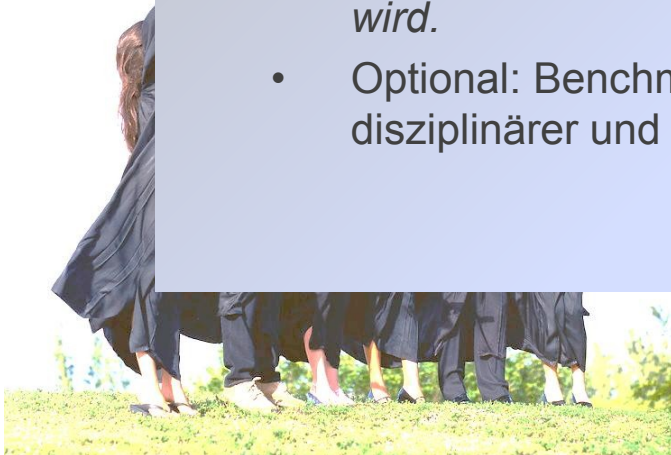
Social Sciences





## Bibliometrische Reports für Fakultäten

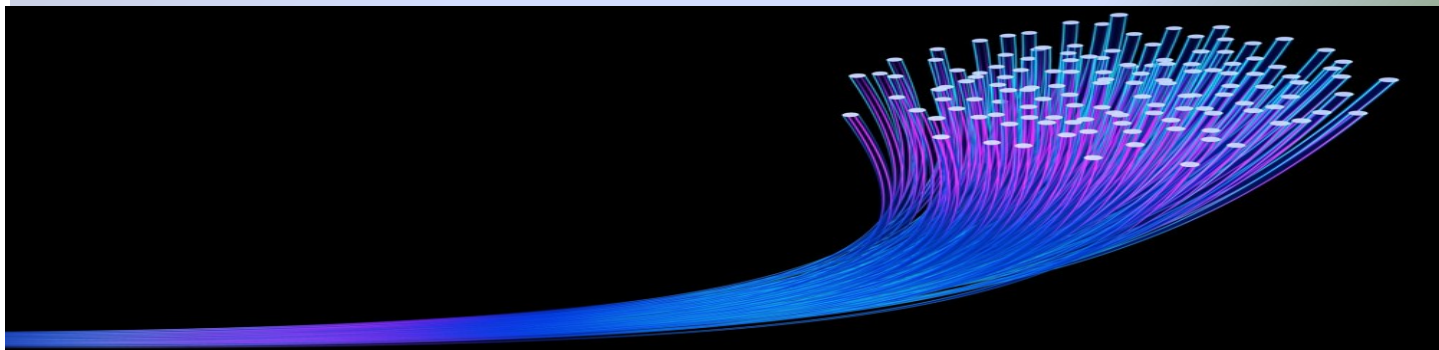
- Regelmäßige Evaluierung des Publikationsoutputs von Fakultäten und Forschungszentren (ca. alle vier Jahre)
- Leistungsvereinbarungen zwischen Rektorat und Fakultät dienen als Basis
- Bibliometrische *Reports sind NICHT als Ergebnis der Evaluierung anzusehen, sondern als Diskussionspapier, das zuerst dem Dekan und dann in revidierter und annotierter Version dem Rektorat und den Peers zur Verfügung gestellt wird.*
- Optional: Benchmarking via InCites (allerdings nur auf disziplinärer und nicht auf organisatorischer Ebene)





## Bibliometrische Unterstützung von Berufungsverfahren

- **Service für Fakultätsadministration** in Zusammenarbeit mit der Qualitätssicherung → bibliometrische Analyse der BewerberInnen
- Kritische Diskussion mit Berufungskommission im Vorfeld (Kriterien, Standards, Indikatoren, herangezogene Datenbasis )
- **Präferenz von einfachen** im Gegensatz zu komplexen **Indikatoren** (basic vs. composite indicators)
- “Top counts approach” garantiert die **Multidimensionalität** der Analysen und erlaubt **Flexibilität** hinsichtlich unterschiedlicher Publikationsstrategien und - kulturen





# Auszug aus einem Report: Top Counts

Activity 2006-2015														Visibility 2006-2015							Impact A/R/PP/BC - 2006-2015										% Self-Citations 2006-2015	% International Collaboration 2006-2015	Top 5 counts last 10 years	Top 5 Additional data-Counts All years			
1st PY in WoS	# PY in WoS total	Document Type										Mean # Co-AU per P	# Co-AU total 2006-2015	% First OR Last OR Corresp. AU	Impact Factor			Quartiles				Citations			h-Index	m-index	CNCI	# Top 10%	% Top 10%	# Top 1%					% Top 1%		
		Total	A	R	PP	BC	EM	MA	O	A/R/PP/BC	A/R/PP/BC per PY				Sum	per P	Max	Q1	Q2	Q3	Q4	% Q1	Sum	per P												Max	
2007	9	18	17	0	0	0	0	1	0	17	1.89	7.61	94	83%	55.67	3.27	9.67	12	4	1	0	70.59%	149	8.76	30	8	0.89	1.17	3	17.65%	0	0%	18.79%	64.71%	0	0	
2007	9	17	13	0	1	0	0	2	1	14	1.56	5.06	49	71%	52.05	4	9.67	12	0	1	0	92.31%	192	13.71	72	6	0.67	1.65	3	21.43%	0	0%	10.42%	71.43%	1	0	
2014	2	5	0	0	5	0	0	0	0	5	2.50	2.40	n.a.	100%	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	5	1	3	1	0.50	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1990	26	60	46	2	1	1	3	5	2	50	5	6.16	243	41.67%	147.20	3.07	8.24	39	12	1	6	67.24%	825	16.50	92	17	1.70	1.57	10	20%	2	4%	8.85%	78%	12	8	
2010	6	10	9	0	0	1	0	0	0	10	1.67	8.60	58	50%	22.58	2.51	2.56	0	9	0	0	0%	91	9.10	20	6	1	1.05	0	0%	0	0%	14.10%	89%	0	0	
2003	13	35	22	2	1	0	0	10	0	25	2.50	3.72	64	60%	77.28	3.22	6.72	22	6	2	1	70.97%	255	10.20	45	9	0.90	1.81	3	12%	1	4%	28.24%	84%	2	0	
1998	18	33	26	1	2	0	2	1	1	29	2.90	5.10	71	45.45%	94.01	3.62	9.67	23	5	2	0	76.67%	350	12.07	41	12	1.20	1.22	3	10.34%	0	0%	24.86%	79.31%	0	1	
2000	16	30	14	0	12	2	0	2	0	28	2.80	5.57	104	16.67%	30.57	2.18	3.38	7	4	4	1	43.75%	212	7.57	59	7	0.70	2.96	6	21.43%	0	0%	9.91%	28.57%	1	1	
1996	20	30	24	0	0	0	0	2	0	28	2.80	3.50	55	93.33%	100.77	3.60	11.47	24	0	3	3	80%	467	16.68	92	10	1	1.72	6	21.43%	0	0%	18.84%	85.71%	2	4	
2007	9	32	27	1	0	0	4	0	0	28	3.11	4.63	102	65.63%	66.48	2.46	7.89	11	10	3	3	41%	238	8.50	32	11	1.22	1.11	2	7.14%	0	0%	21.01%	39.29%	0	0	
1997	19	2	2	0	0	0	0	0	0	2	0.20	2	n.a.	0%	5.79	2.90	2.90	0	2	0	0	0%	34	17	19	2	0.20	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2008	8	10	9	1	0	0	0	0	0	10	1.25	6	36	30%	34.65	3.47	4.57	8	2	0	0	80%	156	15.60	37	6	0.75	2.04	2	20%	0	0%	8.97%	100%	1	0	
2005	11	43	30	4	4	4	0	0	1	42	4.20	2.64	81	74.42%	104.06	3.06	8.24	29	2	4	0	82.86%	493	11.74	57	13	1.30	1.26	5	11.90%	0	0%	26.37%	69.05%	6	3	
1993	23	35	32	1	0	0	2	0	0	33	3.30	3.79	66	31.43%	69.35	2.17	8.24	12	18	3	1	35.29%	447	13.55	66	12	1.20	1.46	7	21.21%	1	3.03%	11.86%	89.47%	2	2	
2014	2	2	2	0	0	0	0	0	0	2	1	1.50	n.a.	100%	4.52	2.26	2.73	1	1	0	0	50%	1	0.50	1	1	0.50	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2003	13	54	49	3	0	1	1	0	0	53	5.30	7.15	159	27.78%	148.14	2.85	4.88	38	10	4	0	73.08%	986	18.60	83	17	1.70	1.53	17	32.08%	0	0%	20.79%	67.92%	11	5	
2005	11	39	35	2	1	0	0	0	1	38	3.80	4.16	77	61.54%	102.16	2.76	8.24	21	12	3	2	55.26%	467	12.29	75	12	1.20	1.25	7	18.42%	1	2.63%	19.91%	93.33%	2	0	
2002	14	20	15	1	0	0	1	2	1	16	1.60	4.88	65	75%	59.47	3.72	9.67	18	1	1	0	90%	246	15.38	58	10	1	1.86	4	26.67%	0	0%	10.98%	28.57%	1	1	
2003	13	13	11	1	0	0	1	0	0	12	1.20	4.25	23	38.46%	14.13	1.18	2.09	1	5	2	5	7.69%	159	13.25	47	7	0.70	1.13	1	8.33%	0	0%	22.64%	52.78%	0	0	
1997	19	19	8	0	1	4	3	0	3	13	1.30	1.38	26	89.47%	33.85	4.23	7.89	10	1	0	1	83.33%	280	21.54	93	6	0.60	1.78	5	35.71%	0	0%	6.43%	75%	5	6	
2003	13	40	32	3	1	0	4	0	0	36	3.60	3.75	48	55%	87.68	2.58	8.24	23	13	2	0	60.53%	367	10.19	109	10	1	0.74	1	2.78%	1	2.78%	18.53%	80%	2	0	
2002	14	27	24	1	2	0	0	0	0	27	2.70	5.74	102	25.93%	132.06	5.28	33.61	21	2	1	1	84%	481	17.81	110	12	1.20	2.48	9	33.33%	1	3.70%	9.36%	90.32%	11	5	
2008	8	11	10	0	0	0	1	0	0	10	1.25	2.40	13	81.82%	34.85	3.48	7.89	9	2	0	0	81.82%	161	16.10	40	6	0.75	2.28	3	30%	0	0%	13.04%	41.67%	2	1	
2003	13	16	12	0	0	0	1	3	0	12	1.20	5.33	56	56.25%	36.11	3.01	4.73	13	0	1	2	81.25%	93	7.75	22	6	0.60	0.85	0	0%	0	0%	11.83%	85.19%	0	1	
2008	8	31	31	0	0	0	0	0	0	31	3.88	6.19	98	22.58%	138.24	4.46	33.61	28	3	0	0	90.32%	566	18.26	94	15	1.88	1.93	9	29.03%	1	3.23%	17.31%	48.15%	13	1	
1986	30	7	4	0	3	0	0	0	0	7	0.70	2.57	15	57.14%	6.48	1.62	2.64	2	0	1	1	50%	7	1	2	2	0.20	0.65	0	0%	0	0%	14.29%	42.86%	0	0	
1992	24	60	43	0	3	8	6	0	0	54	5.40	3.17	122	75%	73.26	1.74	3.38	22	6	2	17	46.81%	508	9.41	54	13	1.30	1.51	7	12.96%	1	1.85%	15.10%	60%	8	5	
2001	15	16	12	1	0	3	0	0	0	16	1.60	4.75	34	43.75%	33.78	2.60	7.89	7	3	3	0	53.85%	216	13.50	29	10	1	2.41	4	25%	1	6.25%	16.20%	81.25%	3	1	
2001	15	15	9	2	0	4	0	0	0	15	1.50	3.93	39	66.67%	62.91	5.72	33.61	6	4	1	0	54.55%	176	11.73	24	9	0.90	1.74	2	13.33%	1	6.67%	10.80%	86.67%	4	0	
2002	14	9	8	0	0	0	1	0	0	8	0.80	2.13	12	100%	42.34	6.05	12.11	6	1	0	1	75%	62	7.75	25	5	0.50	0.71	0	0%	0	0%	24.19%	66.67%	2	0	
2006	10	42	40	0	0	0	1	0	1	40	4	5.75	123	66.67%	109.52	2.74	7.89	22	14	1	5	52.38%	521	13.03	78	14	1.40	1.50	7	17.95%	1	2.56%	26.25%	75%	9	1	



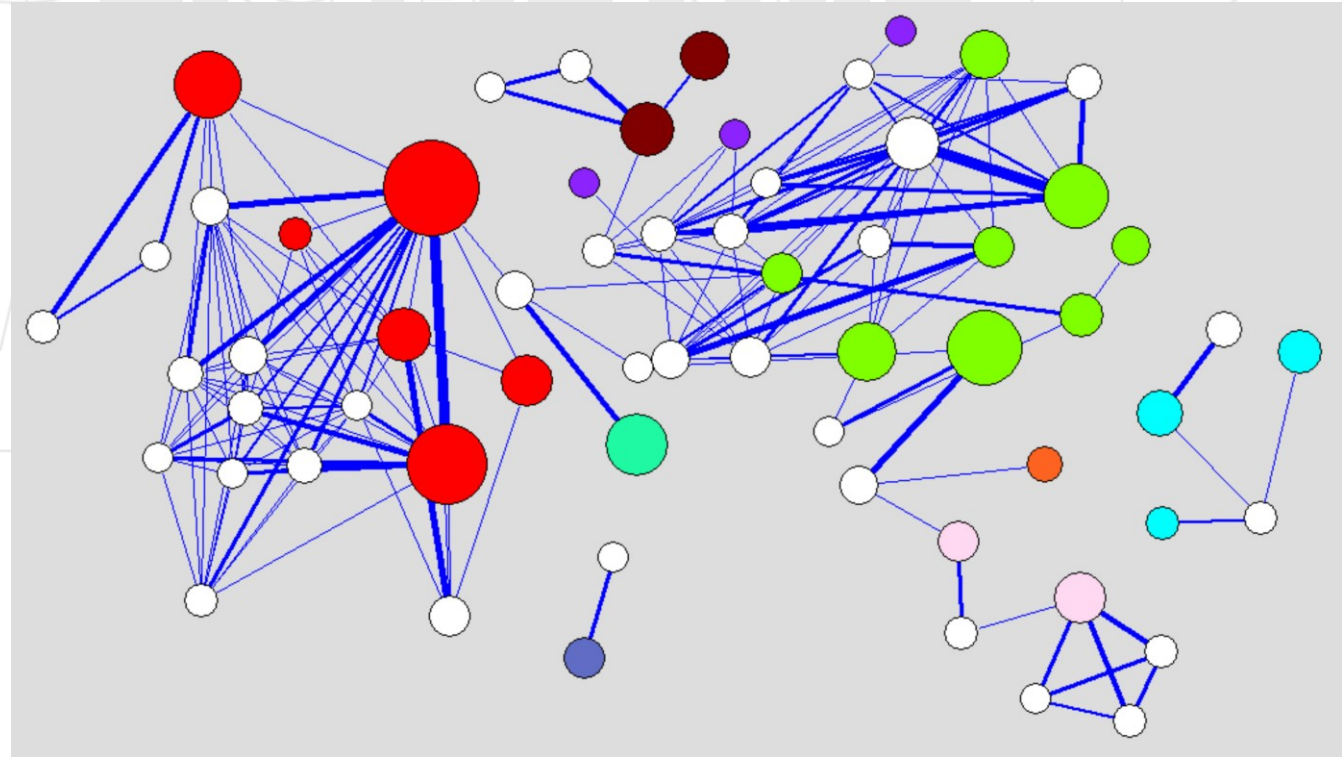
# Auszug aus einem Report: Top Counts

# PY in WoS total	All Publication Years in WoS (excl. 2016)										2016	Additional Information										WoS Research Fields			
											All DT	Other Document Types according to PL*										First Research Field (2006-2015)			Second Research Field (2006-2015)
	All DT	# A/R/PP/BC	All CIT	CIT/P	CNCI	h-index total	m-index total	i50 total	i100 total	% WoS Coverage only Peer Review		Edited Books or Journal Issues	Books	BC	PP**	REP	Miscellaneous				WoS Category	IF Median 2014	IF aggregate	WoS Category	
9	18	17	149	8.28	1.10	8	0.89	0	0	94.44%	2 (1)	0	0	2 (0)	0	2 (0)	0 (1) MA; > 15 CONF	Geochemistry & Geophysics	1.61	2.52	Geosciences, Multidisciplinary				
9	17	14	192	11.29	1.36	5	0.56	2	0	93.33%	2 (1)	0	0	0	1 (1)	2 (0)	0 (2) MA, 0 (1) CORR; > 5 CONF (selection)	Geosciences, Multidisciplinary	1.61	2.58	Geology				
2	5	5	5	1	n.a.	1	0.50	0	0	9.43%	2 (0)	?	3 (0)	1 (0)	21 (5)	6 (0)	10 (0) EM, 2 (0) notes; > 30 CONF	Geosciences, Multidisciplinary	1.61	2.58	Remote Sensing				
26	136	119	3560	26.18	1.58	34	1.31	25	4	91.80%	5 (3)	4 (0)	0	6 (1)	14 (2)	6 (0)	8 (9) MA, 7 (0) notes, 2 (2) CORR, 1 (1) BIO, 1 (1) letter; > 300 CONF	Geochemistry & Geophysics	1.61	2.52	Geosciences, Multidisciplinary				
6	10	10	91	9.10	1.05	6	1.00	0	0	100%	0	0	0	1 (1)	0	0	> 35 CONF	Geosciences, Multidisciplinary	1.61	2.58	Geochemistry & Geophysics				
13	38	28	318	8.37	1.26	11	0.85	0	0	90%	1 (1)	0	0	2 (0)	2 (1)	3 (0)	0 (10) MA, 1 (0) FGD, 1 (0) POP; > 100 CONF	Geochemistry & Geophysics	1.61	2.52	Chemistry, Multidisciplinary				
18	45	39	691	15.36	1.31	17	0.94	2	0	89.13%	2 (1)	2 (0)	0	3 (0)	2 (2)	2 (0)	2 (3) EM, 0 (2) CORR, 2 (0) notes, 1 (1) MA; > 100 CONF	Paleontology	1.16	1.57	Geosciences, Multidisciplinary				
16	38	35	516	13.58	2.49	9	0.56	3	1	86.96%	0	2 (0)	0	7 (3)	10 (11)	0	0 (3) MA, 1 (0) EM, 1 (0) note; > 15 CONF	Energy & Fuels	1.99	4	Geosciences, Multidisciplinary				
20	41	37	2389	58.27	2.03	16	0.80	11	6	96.55%	3 (2)	0	0	4 (0)	0	0	0 (4) MA, 1 (0) DISS, 1 (0) SP, 1 (0) POP; > 8 CONF (selection)	Geosciences, Multidisciplinary	1.61	2.58	Paleontology				
9	32	28	241	7.53	1	11	1.22	0	0	100%	2 (2)	3 (0)	1 (0)	6 (0)	0	0	0 (4) EM; > 5 CONF (selection)	Geosciences, Multidisciplinary	1.61	2.58	Geography, Physical				
19	7	7	88	12.57	n.a.	5	0.26	0	0	87.50%	0	0	0	0	2 (0)	1 (0)	> 40 CONF	Geochemistry & Geophysics	1.61	2.52	n.a.				
8	10	10	156	15.60	2.04	6	0.75	0	0	83.33%	1 (1)	0	0	0	0	1 (0)	1 (0) DISS; > 45 CONF	Paleontology	1.16	1.57	Geography, Physical				
11	46	45	642	13.96	1.31	14	1.27	2	0	88%	8 (6)	4 (0)	0	6 (4)	4 (4)	1 (0)	3 (0) BR, 2 (0) SP, 0 (1) CORR, 1 (0) FGD, 1 (0) CPM; > 25 CONF	Geosciences, Multidisciplinary	1.61	2.58	Geology				
23	48	46	653	13.60	1.27	15	0.65	3	0	79.25%	3 (0)	2 (0)	0	16 (0)	12 (2)	1 (0)	3 (0) POP, 1 (2) EM, 2 (0) MA; > 160 CONF	Paleontology	1.16	1.57	Geology				
2	2	2	1	0.50	n.a.	1	0.50	0	0	100%	1 (0)	0	0	0	0	0	> 10 CONF	n.a.	n.a.	n.a.	n.a.				
13	57	56	1185	20.79	1.60	20	1.54	7	1	96.55%	5 (2)	0	0	2 (1)	0	3 (0)	3 (0) NRP, 2 (0) notes, 1 (1) EM; > 10 CONF (selection)	Geosciences, Multidisciplinary	1.61	2.58	Geography, Physical				
11	40	39	468	11.70	1.19	12	1.09	1	0	92.31%	5 (3)	1 (0)	0	2 (0)	4 (1)	32 (0)	1 (1) CORR, 1 (0) BR, 1 (0) note; > 85 CONF	Geosciences, Multidisciplinary	1.61	2.58	Geology				
14	25	19	626	25.04	1.93	11	0.79	2	1	95%	1 (0)	0	0	1 (0)	3 (1)	1 (0)	7 (4) MA, 1 (1) EM; > 20 CONF	Geology	1.15	2.06	Geochemistry & Geophysics				
13	15	14	181	12.07	0.96	8	0.62	0	0	60.87%	0	1 (0)	1 (0)	0	5 (0)	0	> 140 CONF	Geosciences, Multidisciplinary	1.61	2.58	Paleontology				
19	35	27	1230	35.14	2.28	18	0.95	12	2	58.06%	0	5 (0)	1 (1)	7 (1)	2 (2)	0	4 (4) EM, 1 (1) letter; > 55 CONF	Geosciences, Multidisciplinary	1.61	2.58	Geology				
13	42	38	389	9.26	0.69	11	0.85	1	1	85%	2 (1)	0	0	1 (0)	1 (1)	1 (0)	5 (4) EM; > 7 CONF	Paleontology	1.16	1.57	Geosciences, Multidisciplinary				
14	34	33	820	24.12	2.45	16	1.14	5	2	94.29%	3 (2)	2 (0)	0	4 (0)	2 (2)	4 (0)	9 (0) CPM, 4 (0) FGD, 1 (1) EM; > 140 CONF	Geosciences, Multidisciplinary	1.61	2.58	Paleontology				
8	11	10	167	15.18	2.29	6	0.75	0	0	76.92%	2 (0)	0	0	0	0	0	1 (1) EM; > 35 CONF (selection)	Geology	1.15	2.06	Geosciences, Multidisciplinary				
13	25	19	584	23.36	1.90	10	0.77	4	2	82.61%	2 (1)	1 (0)	0	1 (0)	2 (0)	13 (0)	1 (1) MA; > 40 CONF	Geosciences, Multidisciplinary	1.61	2.58	Geochemistry & Geophysics				
8	31	31	566	18.26	1.93	15	1.88	1	0	93.94%	7 (4)	0	0	1 (0)	0	2 (0)	1 (0) SP; > 90 CONF	Geosciences, Multidisciplinary	1.61	2.58	Ecology				
30	16	14	120	7.50	0.93	5	0.17	0	0	48%	0	0	0	4 (0)	9 (4)	36 (0)	11 (0) FGD, 2 (2) MA, 1 (0) letter; > 150 CONF	Geology	1.15	2.06	Geosciences, Multidisciplinary				
24	86	78	1174	13.65	1.38	20	0.83	5	0	60.95%	12 (7)	8 (0)	0	33 (8)	6 (4)	2 (0)	3 (6) EM, 4 (1) notes, 2 (0) MA, 1 (0) FGD, 1 (0) chart; CONF n.a.	Geosciences, Multidisciplinary	1.61	2.58	Geology				
15	20	20	276	13.80	2.23	12	0.80	0	0	90.91%	4 (4)	0	0	5 (3)	1 (1)	2 (0)	16 (0) research abstracts, 3 (0) SP, 1 (0) DISS; > 55 CONF	Geology	1.15	2.06	Paleontology				
15	22	22	273	12.41	1.45	11	0.73	0	0	91.67%	4 (4)	0	0	7 (4)	1 (1)	0	18 (0) research abstracts, 2 (0) SP, 1 (0) DISS; > 50 CONF	Geology	1.15	2.06	Paleontology				
14	10	9	73	7.30	0.75	5	0.36	0	0	100%	0	0	0	0	0	0	3 (0) SP, 1 (1) EM; > 25 CONF	Paleontology	1.16	1.57	Geology				
10	42	40	522	12.43	1.47	14	1.40	1	0	95.45%	1 (0)	0	0	1 (0)	1 (0)	0	3 (0) SP, 1 (1) EM, 1 (1) letter; CONF n.a.	Geosciences, Multidisciplinary	1.61	2.58	Geography, Physical				



BIBLIOMETRIE

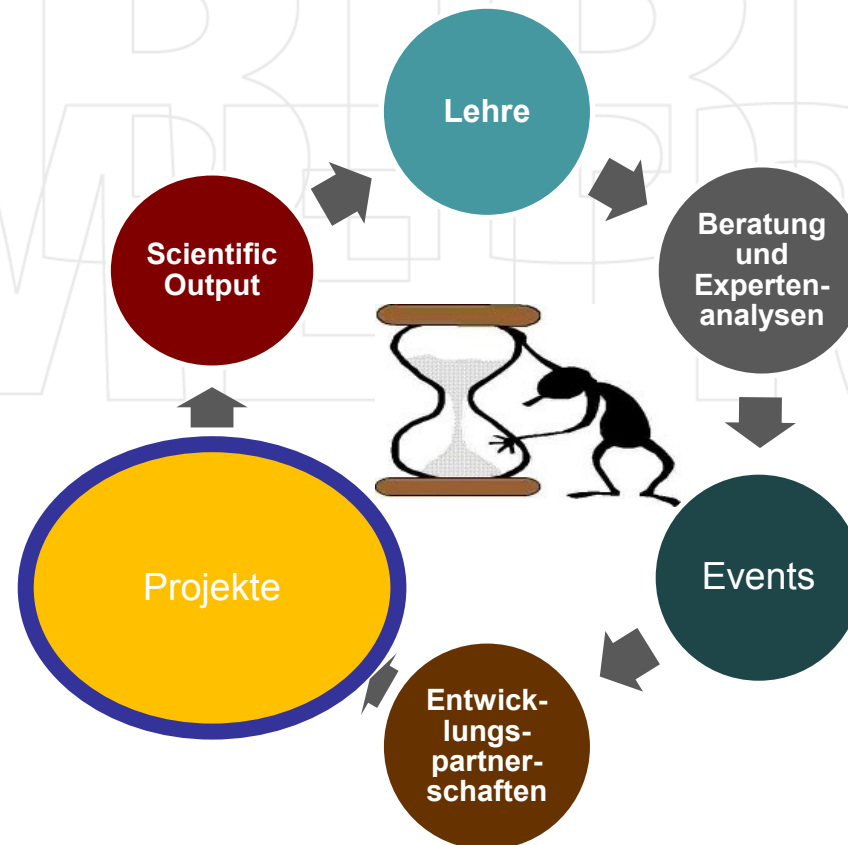
Auszug aus  
einem Report:  
Candidates  
network







## Aktivitäten der Bibliometrie Wien







## Nationales Projekt: e-Infrastructures Austria

- Projekt für den koordinierten Ausbau und die Weiterentwicklung von Repositorieninfrastrukturen in ganz Österreich in Kooperation mit 25 Partnerinstitutionen (davon 20 österreichische Universitäten)
  - Aufteilung der Projektaufgaben in 12 Cluster
  - Bibliometrie Wien Leitung von Cluster B: Planung und Durchführung einer österreichweiten Umfrage zu Forschungsdaten
- Full report: <https://phaidra.univie.ac.at/view/o:409318>



## Sichtbarkeitssteigerung in den Geistes-, Sozial- und Kulturwissenschaften (GSK) an der Universität Wien

- Projekt mit Unterstützung des Rektorats
- Analyse des Forschungsoutputs von zwei ausgewählten Fakultäten in den letzten beiden Jahren
- Durchgeführte Interviews mit ProfessorInnen verschiedener GSK Fakultäten → Diskussion verschiedener Publikationskulturen und neue Wege zur Sichtbarkeitssteigerung
- Verwendung von „Google Scholar Citations“ als überlegene Datenquelle hinsichtlich Abdeckung im Vergleich mit WoS und Scopus
- Bewusstseinsbildung für zunehmende Selbstmarketing Aktivitäten von Forschenden
- Empfehlungen des Rektorats zur Steigerung der Sichtbarmachung wissenschaftlicher Leistungen in den Geistes-, Sozial- und Kulturwissenschaften  
<https://phaidra.univie.ac.at/view/o:408056>
- Online Befragung aller GSK Forschenden im Frühjahr 2016, derzeit Auswertung



*\*Take  
home messages*



- Bibliometrie ist ein ideales Betätigungsfeld für akademische BibliothekarInnen.
- Sie bietet viele Möglichkeiten um innovative, forschungsunterstützende Services zu entwickeln, die spezifisch an Forschende oder aber an das administrative Universitätspersonal adressiert werden können.
- Auf diese Weise können BibliothekarInnen aktiv strategische und innovative Prozesse an der Universität beeinflussen und mitgestalten.
- Darüberhinaus besteht die Möglichkeit in diesem Bereich als InformationswissenschaftlerIn (inter-) national tätig zu sein.