

Publication List of Werner Marx
Max Planck Institute for Solid State Research, Stuttgart (Germany)
Last update: 01-06-2020

See also the publication list under Google Scholar:

https://scholar.google.de/citations?hl=de&user=5czWYjsAAAAJ&view_op=list_works&sortby=pubdate

Submitted Publications

Publications

2020

R. Haunschild, W. Marx, A. Thor, L. Bornmann
 How to identify the roots of broad research topics and fields?
 The introduction of RPYS sampling using the example of climate change research
 Journal of Information Science 46(3), 392-405 (2020)
<https://doi.org/10.1177/0165551519837175>

L. Bornmann, W. Marx
 Thomas theorem in research evaluation
 Scientometrics 123(1), 553-555 (2020)
<https://doi.org/10.1007/s11192-020-03389-6>

R. Haunschild, W. Marx
 Discovering seminal works with marker papers
 Scientometrics, early access: JAN 2020
<https://doi.org/10.1007/s11192-020-03358-z>

2019

R. Haunschild, L. Leydesdorff, L. Bornmann, I. Hellsten, W. Marx
 Does the public discuss other topics on climate change than researchers?
 A comparison of explorative networks based on author keywords and hashtags
 Journal of Informetrics 13(2), 695-707 (2019)
<https://doi.org/10.1016/j.joi.2019.03.008>

2018

W. Marx, R. Haunschild, L. Bornmann
 Climate and the decline and fall of the Western Roman Empire: A bibliometric view on an interdisciplinary approach to answer a most classic historical question
 Climate 6(4), article number 90 (2018)
<https://doi.org/10.3390/cli6040090>

R. Haunschild, W. Marx, A. Thor, L. Bornmann
 How to identify the roots of broad research topics and fields? The introduction of RPYS sampling using the example of climate change research
<https://arxiv.org/abs/1807.04673>

L. Bornmann, W. Marx
 Critical rationalism and the search for standard (field-normalized) indicators in bibliometrics
 Journal of Informetrics 12(3), 598-604 (2018)

<https://doi.org/10.1016/j.joi.2018.05.002>

A. Thor, L. Bornmann, W. Marx, R. Mutz

Identifying single influential publications in a research field: New analysis opportunities of the CRExplorer

Scientometrics 116(1), 591-608 (2018)

<https://doi.org/10.1007/s11192-018-2733-7>

R. Haunschild, H. Schier, W. Marx, L. Bornmann

Algorithmically generated subject categories based on citation relations: An empirical micro study using papers on overall water splitting

Journal of Informetrics 12(2), 436-447 (2018)

<https://doi.org/10.1016/j.joi.2018.03.004>

2017

W. Marx, R. Haunschild, L. Bornmann

The role of climate in the collapse of the Maya civilization: A Bibliometric analysis of the scientific discourse

Climate 5(4), article number 88 (2017)

<https://doi.org/10.3390/cli5040088>

W. Marx, R. Haunschild, L. Bornmann

Global warming and tea production – The Bibliometric view on a newly emerging research topic

Climate 5(3), article number 46 (2017)

<https://doi.org/10.3390/cli5030046>

W. Marx, R. Haunschild, B. French, L. Bornmann

Slow reception and under-citedness in climate change research: A case study of Charles David Keeling, discoverer of the risk of global warming

Scientometrics, published online 16.05.2017

<http://dx.doi.org/10.1007/s11192-017-2405-z>

A. Barth, W. Marx

Referenzjahrgangs-Spektroskopie: Eine bibliometrische Methode zur Untersuchung der historischen Wurzeln von Forschungsfeldern

Reference publication year spectroscopy: A bibliometric method for the analysis of the historical roots of research fields

Information. Wissenschaft & Praxis 68(1), 11-24 (2017)

<http://dx.doi.org/10.1515/iwp-2017-0006>

W. Marx, R. Haunschild, A. Thor, L. Bornmann

Which early works are cited most frequently in climate change research literature? A bibliometric approach based on reference publication year spectroscopy

Scientometrics 110(1), 335-353 (2017)

<http://dx.doi.org/10.1007/s11192-016-2177-x>

W. Marx, R. Haunschild, L. Bornmann

Climate change and viticulture – A quantitative analysis of a highly dynamic research field VITIS – Journal of Grapevine Research 56(1), 35-43 (2017)

<http://dx.doi.org/10.5073/vitis.2017.56.35-43>

L. Bornmann, R. Haunschild, W. Marx

Measuring the societal impact of research: References to climate change research in relevant policy literature

London School of Economics (LSE) Impact Blog
<http://blogs.lse.ac.uk/impactofsocialsciences/2016/11/15/measuring-the-societal-impact-of-research-references-to-climate-change-research-in-relevant-policy-literature/>

2016

R. Haunschild, L. Bornmann, W. Marx
 Climate change research in view of bibliometrics
 PLoS ONE 11(7): e0160393, Published: July 29, 2016
<http://dx.doi.org/10.1371/journal.pone.0160393>

L. Bornmann, R. Haunschild, W. Marx
 Policy documents as sources for measuring societal impact: How often is climate change research mentioned in policy-related documents?
 Scientometrics 109(3), 1477-1495 (2016)
<http://dx.doi.org/10.1007/s11192-016-2115-y>

R. Haunschild, A. Barth, W. Marx
 Evolution of DFT studies in view of a scientometric perspective
 Journal of Cheminformatics 8: 52 (2016)
<http://dx.doi.org/10.1186/s13321-016-0166-y>

W. Marx, L. Bornmann
 Change of perspective: Bibliometrics from the point of view of cited references. A literature overview on approaches to the evaluation of cited references in bibliometrics
 Scientometrics (2016)
<http://dx.doi.org/10.1007/s11192-016-2111-2>

A. Thor, W. Marx, L. Leydesdorff, L. Bornmann
 New features of CitedReferencesExplorer (CRExplorer), Letter to the Editor
 Scientometrics 109(3), 2049-2051 (2016)
<http://dx.doi.org/10.1007/s11192-016-2082-3>

A. Thor, W. Marx, L. Leydesdorff, L. Bornmann
 Introducing CitedReferencesExplorer (CRExplorer): A program for reference publication year spectroscopy with cited references standardization
 Journal of Informetrics 10(2), 503-515 (2016)
<http://dx.doi.org/10.1016/j.joi.2016.02.005>

W. Marx
 Bibliometrische Verfahren zur Bewertung von Forschungsleistung
 Soziale Welt 66(2), 161-176 (2016)
<http://dx.doi.org/10.5771/0038-6073-2015-2-161>

L. Bornmann, W. Marx
 The Journal Impact Factor and alternative metrics
 EMBO Reports, published online 28.06.2016
<http://dx.doi.org/10.15252/embr.201642823>

L. Bornmann, A. Thor, W. Marx, H. Schier
 The application of bibliometrics to research evaluation in the humanities and social sciences: An exploratory study using normalized Google Scholar data for the publications of a research institute.
 Journal of the Association for Information Science and Technology, 67(11), 2778-2789 (2016)
<http://dx.doi.org/10.1002/asi.23627>

L. Bornmann, R. Haunschild, W. Marx
 Calculating Journal Rankings: Peer Review, Bibliometrics, and Alternative Metrics?
 Chapter III (pp. 42-55) in: Publishing and the Academic World – Passion, purpose and possible futures, Editors: Ciaran Sugrue and Sefika Mertkan, Routledge, Taylor and Francis, London and New York (2016)
 ISBN: 978-1-138-91670-8 (hbk)
 ISBN: 978-1-138-91671-5 (pbk)
 ISBN: 978-1-315-68941-8 (ebk)

L. Leydesdorff, L. Bornmann, J.A. Comins, W. Marx, A. Thor
 Referenced publication year spectroscopy (RPYS) and algorithmic historiography: The bibliometric reconstruction of András Schubert's oeuvre
 In: The World of Models and Metrics – A Festschrift on the Occasion of András Schubert's 70th Birthday. Special publication of the International Society for Scientometrics and Informetrics (ISSI), edited by Wolfgang Glänzel et al., pp.95-112 (March 2016)

L. Bornmann, A. Thor, W. Marx, L. Leydesdorff
 Identifying seminal works most important for research fields: Software for the reference publication year spectroscopy (RPYS)
 Collnet Journal of Scientometrics and Information Management 10(1), 125-140 (2016)
<http://dx.doi.org/10.1080/09737766.2016.1177948>

2015

L. Bornmann, W. Marx
 Methods for the generation of normalized citation impact scores in bibliometrics: Which method best reflects the judgements of experts?
 Journal of Informetris 9(2), 408-418 (2015)
<http://dx.doi.org/10.1016/j.joi.2015.01.006>

W. Marx, L. Bornmann
 On the causes of subject-specific citation rates in Web of Science
 Scientometrics 102(2), 1823–1827 (2015)
<http://dx.doi.org/10.1007/s11192-014-1499-9>

2014

W. Marx
 The Shockley-Queisser paper – A notable example of a scientific sleeping beauty
 Annalen der Physik (Berlin) 526(5–6), A41–A45 (2014)
<http://dx.doi.org/10.1002/andp.201400806>

W. Marx, M. Cardona
 Physics in Cuba in view of bibliometry
 In: Boston Studies – Physics in Cuba: History and present perspectives, pp. 423-437 (2014)
 Editors: J. Renn, A. Baracca
http://link.springer.com/chapter/10.1007/978-94-017-8041-4_33

A. Barth, W. Marx, L. Bornmann, R. Mutz
 On the origins and the historical roots of the Higgs boson research from a bibliometric perspective
 The European Physical Journal – Plus 129(111), 1-13 (2014)
<http://dx.doi.org/10.1140/epjp/i2014-14111-6>

W. Marx, L. Bornmann

On the problems of dealing with bibliometric data
Journal of the Association for Information Science and Technology 65(4), 866-867 (2014)
<http://dx.doi.org/10.1002/asi.23059>

L. Bornmann, W. Marx
The wisdom of citing scientists
Journal of the Association for Information Science and Technology 65(6), 1288-1292 (2014)
<http://dx.doi.org/10.1002/asi.23100>

W. Marx, L. Bornmann
Tracing the origin of a scientific legend by reference publication year spectroscopy (RPYS): the legend of the Darwin finches
Scientometrics 99(3), 839–844 (2014)
<http://dx.doi.org/10.1007/s11192-013-1200-8>

L. Bornmann, W. Marx
Distributions instead of single numbers: Percentiles and beam plots for the assessment of single researchers
Journal of the Association for Information Science and Technology 65(1), 206-208 (2014)
<http://dx.doi.org/10.1002/asi.22996>

W. Marx, L. Bornmann, A. Barth, L. Leydesdorff
Detecting the historical roots of research fields by reference publication year spectroscopy (RPYS)
Journal of the Association for Information Science and Technology 65(4), 751-764 (2014)
<http://dx.doi.org/10.1002/asi.23089>

L. Leydesdorff, L. Bornmann, W. Marx, S. Milojević
Referenced publication years spectroscopy applied to iMetrics: Scientometrics, Journal of Informetrics, and a relevant subset of JASIST
Journal of Informetrics 8(1), 162-174 (2014)
<http://dx.doi.org/10.1016/j.joi.2013.11.006>

L. Bornmann, W. Marx
How to evaluate individual researchers working in the natural and life sciences meaningfully? A proposal of methods based on percentiles of citations
Scientometrics 98(1), 487-509 (2014)
<http://dx.doi.org/10.1007/s11192-013-1161-y>

L. Bornmann, W. Marx
How should the societal impact of research be generated and measured? A proposal for a simple and practicable approach to allow interdisciplinary comparisons
Scientometrics 98(1), 211-219 (2014)
<http://dx.doi.org/10.1007/s11192-013-1020-x>

2013

W. Marx, L. Bornmann, A. Barth
Detecting the historical roots of research fields by reference publication year spectroscopy (RPYS). Presented at the 14th International Society of Scientometrics and Informetrics Conference (ISSI), Vienna, Austria, July 15-20 (2013)
Book series, edited by J. Gorraiz et al.: Proceedings of the International Conference on Scientometrics and Informetrics, 493-506 (2013)
ISBN: 978-3-200-03135-7

L. Bornmann, W. Marx, A. Barth

The ideal way for the normalization of citation impact
Publications (Special Issue: Metrics in Publishing) 1, 78-86 (2013)
<http://dx.doi.org/10.3390/publications1020078>

W. Marx, L. Bornmann
Wie gut ist Forschung wirklich?
Perzentile zur Messung von Publikationsleistungen
BIOspektrum 19(3), 332-334 (2013)

L. Bornmann, W. Marx
Correspondence – Comments to the response of Rodríguez-Navarro
EMBO Reports 14(6), 493-494 (2013)
<http://dx.doi.org/10.1038/embor.2013.63>

L. Bornmann, W. Marx
How good is research really? Measuring the citation impact of publications with percentiles to ensure correct assessments and fair comparisons
EMBO Reports 14(3), 226-230 (2013)
<http://dx.doi.org/10.1038/embor.2013.9>

W. Marx, L. Bornmann
The use of assessment reports to generate and measure societal impact of research
Elsevier: Research Trends 33(6), 9-10 (2013)
<http://www.researchtrends.com/issue-33-june-2013/the-use-of-assessment-reports/>

W. Marx, L. Bornmann
Journal Impact Factor: “the poor man’s citation analysis” and alternative approaches
European Science Editing 39(2), 62-63 (2013)

L. Bornmann, W. Marx
Evaluating individual researchers’ performance
European Science Editing 39(2), 39-40 (2013)

L. Bornmann, W. Marx
Vorschläge für Standards zur Anwendung der Szientometrie bei der Evaluation von einzelnen Wissenschaftler(inne)n im Bereich der Naturwissenschaften
Zeitschrift für Evaluation 12(1), 103-127 (2013)

L. Bornmann, W. Marx
The proposal of a broadening of perspective in evaluative bibliometrics by complementing the times cited with a cited reference analysis
Journal of Informetrics 7(1), 84-88 (2013)
<http://dx.doi.org/10.1016/j.joi.2012.09.003>

W. Marx, L. Bornmann
The emergence of plate tectonics and the Kuhnian model of paradigm shift: A bibliometric case study based on the Anna Karenina principle
Scientometrics 94(2), 595-614 (2013)
<http://dx.doi.org/10.1007/s11192-012-0741-6>

2012

A. Greco, L. Bornmann, W. Marx
Bibliometric analyses of scientific development in countries of the Union of South American Nations (UNASUR)
El profesional de la información 21(6), 607-612 (2012)

<http://dx.doi.org/10.3145/epi.2012.nov.07>

A. Barth, W. Marx

Stimulation of ideas through compound-based bibliometrics: Counting and mapping chemical compounds for analyzing research topics in chemistry, physics, and materials science
ChemistryOpen 1, 276-283 (2012)

<http://dx.doi.org/10.1002/open.201200029>

L. Bornmann, B.F. Bowman, J. Bauer, W. Marx, H. Schier, M. Palzenberger

Standards für die Anwendung der Bibliometrie bei der Evaluation von Forschungsinstituten im Bereich der Naturwissenschaften

Zeitschrift für Evaluation 11(2), 233-260 (2012)

K. Hentschel, N.Y. Zhu, A.M. Hentschel, W. Marx

Gustav Robert Kirchhoff's treatise on the theory of light rays (1882)

Proceedings: Understanding Kirchhoff's Theory of Diffraction, Durham, May 29 (2012)

L. Bornmann, W. Marx

The Anna Karenina principle: A way of thinking about success in science

Journal of the American Society for Information Science and Technology 63(10), 2037-2051 (2012)

<http://dx.doi.org/10.1002/asi.22661>

L. Bornmann, W. Marx

The effect of several versions of one and the same manuscript published by a journal on its Journal Impact Factor

Scientometrics – Special Issue 92(2), 277-279 (2012)

<http://dx.doi.org/10.1007/s11192-012-0656-2>

S.C. Wimbush, W. Marx, A. Barth, S.R. Hall

Addition of Iridium to the biopolymer-mediated synthesis of YBa₂Cu₃O₇-delta
Physics Procedia 36 (EUCAS Conference 2011), 544-550 (2012)

<http://dx.doi.org/10.1016/j.phpro.2012.06.081>

W. Marx, L. Bornmann

Wahrheit und Klarheit – Uneinheitliche Namen von Universitäten und ihre Folgen für die Forschungsevaluation

Forschung & Lehre 8(12), 650-651 (2012)

http://www.forschung-und-lehre.de/wordpress/?page_id=7

W. Marx, L. Bornmann

Der Journal Impact Factor – Ein problematischer bibliometrischer Indikator

Qualität in der Wissenschaft – Zeitschrift für Qualitätsentwicklung in Forschung, Studium und Administration 6(2), 30-34 (2012)

<http://www.universitaetsverlagwebler.de/inhalte/qiw-2-2012.pdf>

W. Marx, L. Bornmann

Der Journal Impact Factor: Aussagekraft, Grenzen und Alternativen in der Forschungsevaluation

Beiträge zur Hochschulforschung 34(2), 50-66 (2012)

<http://www.ihf.bayern.de/>

W. Marx

Tracking historical papers and their citations

European Science Editing 38(2), 35-39 (2012)

<http://www.ease.org.uk/sites/default/files/may12toc.pdf>

L. Bornmann, W. Marx

A Histcite analysis of papers constituting the h index research front
Journal of Informetrics 6(2), 285-288 (2012)

<http://dx.doi.org/10.1016/j.joi.2011.11.001>

L. Bornmann, H. Schier, W. Marx, H.D. Daniel

What factors determine citation counts of publications in chemistry besides their quality?
Journal of Informetrics 6(1), 11-18 (2012)

<http://dx.doi.org/10.1016/j.joi.2011.08.004>

L. Bornmann, W. Marx, A.Y. Gasparyan, G.D. Kitas

Diversity, value and limitations of the journal impact factor and alternative metrics
Rheumatology International 32, 1861-1867 (2012)

<http://dx.doi.org/10.1007/s00296-011-2276-1>

2011

W. Marx

Literaturflut – Informationslawine – Wissensexpllosion

Wächst der Wissenschaft das Wissen über den Kopf?

Forschung (Politik – Strategie – Management), 4. Jahrgang (3-4), 96-104 (2011)

<http://www.universitaetsverlagwebler.de/inhalte/fo-3-4-2011.pdf>

W. Marx

Bibliometrie in der Forschungsbewertung

Forschung & Lehre 18(11), 858-860 (2011)

<http://www.forschung-und-lehre.de/wordpress/?p=9147>

W. Marx, D. Hoffmann

Bibliometric analysis of fifty years of physica status solidi

Physica Status Solidi B 248(12), 2762-2771 (2011)

<http://dx.doi.org/10.1002/pssb.201140122>

L. Bornmann, W. Marx

The h index as a research performance indicator

European Science Editing 37(3), 77-80 (2011)

<http://www.lutz-bornmann.de/icons/viewpoints.pdf>

W. Marx, M. Cardona, D.J. Lockwood

Rutherford's scientific impact from a bibliometric perspective

Australian Physics 48(3), 78-83 (2011)

W. Marx, M. Cardona, D.J. Lockwood

Rutherford's impact on science over the last 110 years: A bibliometric analysis

Physics in Canada – La physique au Canada 67(1), 35-40 (2011)

[http://www.phys.canterbury.ac.nz/documents/Rutherford%20Bibliometry%20-%20Physics%20in%20Canada%2067%2035%20\(2011\)%20\(2\).pdf](http://www.phys.canterbury.ac.nz/documents/Rutherford%20Bibliometry%20-%20Physics%20in%20Canada%2067%2035%20(2011)%20(2).pdf)

M. Cardona, W. Marx

On the value of author indices

Physics Today 64(3), 9-10 (2011)

<http://dx.doi.org/10.1063/1.3563833>

W. Marx

Special features of historical papers from the viewpoint of bibliometrics

Journal of the American Society for Information Science and Technology 62(3), 433-439 (2011)

<http://dx.doi.org/10.1002/asi.21479>

L. Bornmann, R. Mutz, W. Marx, H. Schier, H.D. Daniel

A multilevel modelling approach to investigating the predictive validity of editorial decisions: do the editors of a high profile journal select manuscripts that are highly cited after publication?

Journal of the Royal Statistical Society – Series A - Statistics in Society 174(4), 857-879 (2011)

<http://dx.doi.org/10.1111/j.1467-985X.2011.00689.x>

L. Bornmann, H. Schier, W. Marx, H.D. Daniel

Does the h index for assessing single publications really work?

A case study on papers published in chemistry

Scientometrics 89(3), 835-843 (2011)

<http://dx.doi.org/10.1007/s11192-011-0472-0>

A.H. Romero, R.K. Kremer, W. Marx

The scientific road of Manuel Cardona: A bibliometric analysis

Annalen der Physik (Special Issue) 523(1-2), 179-190 (2011)

<http://dx.doi.org/10.1002/andp.201000090>

L. Bornmann, H. Schier, W. Marx, H.D. Daniel

Is interactive open access publishing able to identify high-impact submissions?

A study on the predictive validity of Atmospheric Chemistry and Physics by using percentile rank classes

Journal of the American Society for Information Science and Technology

62(1), 61-71 (2011)

<http://dx.doi.org/10.1002/asi.21418>

2010

L. Bornmann, W. Marx, H. Schier, A. Thor, H.D. Daniel

From black box to white box at open access journals: Predictive validity of manuscript reviewing and editorial decisions at Atmospheric Chemistry and Physics

Research Evaluation 19(2), 105-118 (2010)

<http://dx.doi.org/10.3152/095820210X510089>

W. Marx, L. Bornmann, M. Cardona

Reference standards and reference multipliers for the comparison of the citation impact of papers published in different time periods

Journal of the American Society for Information Science and Technology

61(10), 2061-2069 (2010)

<http://dx.doi.org/10.1002/asi.21377>

S.C. Wimbush, W. Marx, A. Barth, S.R. Hall

On the incorporation of beryllium into the biotemplated synthesis of $\text{Ba}_2\text{Cu}_3\text{O}_{7-\delta}$

Superconductor Science and Technology 23, 095003 (4pp) (2010)

<http://dx.doi.org/10.1088/0953-2048/23/9/095003>

W. Marx, A. Barth

Carbon nanotubes – A scientometric study

In: Carbon Nanotubes

IN-TECH, Vienna (2010)

ISBN 978-953-7619-X-X

<http://www.intechopen.com/articles/show/title/carbon-nanotubes-a-scientometric-study>

R.K. Kremer, W, Marx

Scientific cooperation between Estonia and Germany from the viewpoint of bibliometry
Akadeemia 22(1), 115-134 (2010)

<http://www.eurozine.com/journals/akadeemia/issue/2010-01-07.html>

2009

R.K. Kremer, W, Marx

Aspects of the scientific cooperation of Estonia and Germany in view of bibliometry
Proceedings of the Estonian Academy of Sciences 58(4), 255-262 (2009)

<http://dx.doi.org/10.3176/proc.2009.4.07>

W. Marx, L. Bornmann

How accurately does Thomas Kuhn's model of paradigm change describe the transition from a static to a dynamic universe in cosmology?

A historical reconstruction and citation analysis

Scientometrics 84(2), 441-464 (2010)

<http://dx.doi.org/10.1007/s11192-009-0107-x>

W. Marx, M. Cardona

The citation impact outside references – Formal versus informal citations
Scientometrics 80(1), 1-21 (2009)

<http://dx.doi.org/10.1007/s11192-008-1824-2>

L. Bornmann, W. Marx, H. Schier

Hirsch-type index values for organic chemistry journals: A comparison of new metrics with the Journal Impact Factor

European Journal of Organic Chemistry 10, 1471-1476 (2009)

<http://dx.doi.org/10.1002/ejoc.200801243>

W. Marx

Forschungsbewertung auf der Basis von Zitierungen – Aussagekraft und Grenzen der Methode. In: Diskussionspapiere der Alexander von Humboldt-Stiftung:

Publikationsverhalten in unterschiedlichen wissenschaftlichen Disziplinen – Beiträge zur Beurteilung von Forschungsleistungen

12/2009 – Zweite erweiterte Auflage, Seite 132-155 (2009)

http://www.avh.de/pls/web/docs/F13905/12_disk_papier_publicationsverhalten2_kompr.pdf

M. Cardona, W. Marx

Vitaly L. Ginzburg: A bibliometric study

In: Vitaly L. Ginzburg

On superconductivity and superfluidity – A scientific autobiography

Springer, Berlin Heidelberg, pp. 217-232 (2009)

ISBN: 978-3-540-68004-8 (Print) 978-3-540-68008-6 (Online)

http://dx.doi.org/10.1007/978-3-540-68008-6_7

W. Marx

The anatomy of the International Journal of Materials Research in the light of bibliometry

International Journal of Materials Research 100(1), 11-23 (2009)

<http://dx.doi.org/10.3139/146.101793>

L. Bornmann, W. Marx, H. Schier, E. Rahm, A. Thor, H.D. Daniel

Convergent validity of bibliometric Google Scholar data in the field of chemistry – Citation counts for papers that were accepted by Angewandte Chemie International Edition or rejected but published elsewhere, using Google Scholar, Science Citation Index, Scopus, and Chemical Abstracts.

Journal of Informetrics 3(1), 27-35 (2009)

<http://dx.doi.org/10.1016/j.joi.2008.11.001>

C. Neuhaus, W. Marx, H.D. Daniel

The publication and citation impact profiles of Angewandte Chemie and the Journal of the American Chemical Society based on the sections of Chemical

Abstracts: A case study on the limitations of the Journal Impact Factor

Journal of the American Society for Information Science and Technology

60(1), 176–183 (2009)

<http://dx.doi.org/10.1002/asi.20960>

2008

M. Cardona, W. Marx

Max Planck – A conservative revolutionary

Il Nuovo Saggiatore 24 (5-6), 39-54 (2008)

<http://prometeo.sif.it:8080/papers/online/sag/024/05-06/pdf/06.pdf>

W. Marx, A. Barth

Carbon nanotubes – A scientometric study

Physica Status Solidi B (Basic Solid State Physics) 245(10), 2347-2351 (2008)

<http://dx.doi.org/10.1002/pssb.200879660>

M. Cardona, W. Marx

Max Born and his legacy to condensed matter physics

Annalen der Physik 17(7), 497-518 (2008)

<http://dx.doi.org/10.1002/andp.200810304>

A. Barth, W. Marx

Mapping high-temperature superconductors – A scientometric approach

Journal of Superconductivity and Novel Magnetism 21(2), 113-128 (2008)

<http://dx.doi.org/10.1007/s10948-008-0307-2>

2007

M. Cardona, W. Marx

Anatomy of the ICDS series: A bibliometric analysis

Physica B (Condensed Matter) 401-402, 1-6 (2007)

<http://dx.doi.org/10.1016/j.physb.2007.08.101>

M. Cardona, R.V. Chamberlin, W. Marx

Comment on the history of the stretched exponential function

Annalen der Physik 16(12), 842-845 (2007)

<http://dx.doi.org/10.1002/andp.200710269>

L. Bornmann, L. Leydesdorff, W. Marx

Citation environment of Angewandte Chemie

Chimia 61(3), 104-109 (2007)

<http://dx.doi.org/10.2533/chimia.2007.104>

W. Marx

Dornröschen und Mauerblümchen

Physik in unserer Zeit 38(1), 34-39 (2007)
<http://dx.doi.org/10.1002/piuz.200601112>

2006

M. Cardona, W. Marx
 The posthumous impact of Paul Drude
 Annalen der Physik 15(7-8), 461-468 (2006)
<http://dx.doi.org/10.1002/andp.200510196>

M. Cardona, W. Marx
 Vitaly L. Ginzburg – A bibliometric study
 Journal of Superconductivity and Novel Magnetism 19(3-5), 459-466 (2006)
 See also an updated version in: Vitaly L. Ginzburg
 On superconductivity and superfluidity – A scientific autobiography
 Springer, Berlin Heidelberg (2009)
<http://dx.doi.org/10.1007/s10948-006-0173-8>

2005

W. Marx, H. Schier
 CAS kontra Google
 Nachrichten aus der Chemie 53(12), 1228-1232 (2005)
<http://onlinelibrary.wiley.com/doi/10.1002/nadc.20050531210/abstract>

W. Marx
 Einsteins Spuren in den Archiven der Wissenschaft
 Physik in unserer Zeit 36(4), 188-191 (2005)
<http://dx.doi.org/10.1002/piuz.200501077>

M. Cardona, W. Marx
 The disaster of the Nazi-power in science as reflected by some leading journals and
 scientists in physics – A bibliometric study
 Scientometrics 64(3), 313-324 (2005)
<http://dx.doi.org/10.1007/s11192-005-0253-8>

2004

W. Marx, M. Cardona
 Blasts from the past
 Physics World 17(2), 14-15 (2004)
<http://physicsworldarchive.iop.org/index.cfm?action=summary&doc=17%2F2%2Fphwv17i2a21%40pwa-xml&qt=>

M. Cardona, W. Marx
 Verwechselt, vergessen, wieder gefunden –
 Referenzen, das fehlerhafte Gedächtnis der Wissenschaft(ler)
 Physik Journal 3(11), 27-29 (2004)

2000-2003

W. Marx, M. Cardona
 The impact of Solid State Communications in view of the ISI Citation data
 Solid State Communications 127(5), 323-336 (2003)
[http://dx.doi.org/10.1016/S0038-1098\(03\)00442-3](http://dx.doi.org/10.1016/S0038-1098(03)00442-3)

W. Marx, H. Schier, M. Wanitschek
 Citation analysis using online databases: Feasibilities and shortcomings
 Scientometrics 52(1), 59-82 (2001)
<http://dx.doi.org/10.1023/A:1012798911792>

W. Marx
 Angewandte Chemie in light of the Science Citation Index
 Angewandte Chemie - International Edition 40 (1) 139-143 (2001)
 Die Angewandte Chemie im Lichte des Science Citation Index
 Angewandte Chemie 113(1), 143-148 (2001)
[http://dx.doi.org/10.1002/1521-3773\(20010105\)40:1<139::AID-ANIE139>3.0.CO;2-4](http://dx.doi.org/10.1002/1521-3773(20010105)40:1<139::AID-ANIE139>3.0.CO;2-4)

W. Marx, H. Schier
 Zitierungszahlen – eine Messlatte zur Bewertung von Forschungsqualität?
 Physikalische Blätter 57(10), 25-29 (2001)

1979-1999

W. Marx, M. Wanitschek, H. Schier
 Scientometrics on fullerenes and nanotubes
 Condensed Matter News 7(4), 3-7 (1999)
<http://dx.doi.org/10.1063/1.56494>

W. Marx, H. Schier, M. Wanitschek
 Kann man Forschungsqualität messen?
 Zitierungszahlen als Maß für Resonanz auf wissenschaftliche Aktivität
 MPG Spiegel 3, 24-30 (1998)

W. Marx
 Wie misst man Forschungsqualität?
 Der Science Citation Index – Ein Maßstab für die Bewertung
 cogito 4, 35-38 (1996)

W. Marx
 Datenbank-Portrait Beilstein
 cogito 3, 69-70 (1992)

W. Marx
 Online-Datenbanken: Wegweiser im Labyrinth des Fachwissens
 MPG Spiegel 6, 11-15 (1992)

W. Marx
 4-thia- 1-azabicyclo (3.2.0.) heptane-2...
 Chemische Verbindungen in Online-Datenbanken
 cogito 3, 16-23 (1992)

W. Marx
 Für alle Zeit? Über die Lebensdauer von Datenträgern
 cogito 1, 20-24 (1991)

W. Marx: Möglichkeiten und Grenzen...
 Naturwissenschaftliche Datenbanken am Beispiel von Chemical Abstracts
 cogito 2, 22-28 (1990)

W. Marx
 Phantasievoll forschen – Bessere Suchergebnisse durch spielerische Datenbankrecherchen

cogito 5, 19-23 (1990)

W. Marx

Mit „elektronischen Bibliotheken“ gegen die Literaturflut
MPG Spiegel 2, 11-13 (1987)

U. Schurath, W.N. Marx, P.B. Monkhouse

Field-measurements of photolysis frequencies in the atmosphere
Journal of Photochemistry 17(1-2), 140 (1981)

W. Marx, F. Bahe, U. Schurath

NO yield of $O(^1D) + N_2O$ as function of kinetic energy
Berichte der Bunsengesellschaft 83(3), 225-230 (1979)

F.C. Bahe, W.N. Marx, U. Schurath

Determination of the absolute photolysis rate of ozone by sunlight,
 $O_3 + hv \rightarrow O(^1D) + O_2(^1\Delta_g)$, at ground level
Atmospheric Environment 13(11), 1515-1522 (1979)

Invited Talks

Bibliometrie in der Forschungsbewertung
 Koordinatorentreffen der International Max Planck Research School (IMPRS)
 Munich, March 26, 2012

Bibliometrics in the history and philosophy of science
 European Summer School for Scientometrics (esss)
 Vienna, September 12, 2011

Alte Arbeiten im Lichte ihrer Zitierungen - Nutzen und Grenzen der Bibliometrie in der
 Wissenschaftsgeschichte
 Colloquium: History and foundations of quantum physics
 Max Planck Institute for the History of Science
 Berlin, March 11, 2010

Searching scientific information - opportunities and pitfalls
 International Max Planck Research School (IMPRS Advanced Materials)
 Freudenstadt, December 11, 2009

Publikationen im Geflecht ihrer Zitierungen
 Stuttgarter Arbeitskreis für Wissenschafts- und Technikgeschichte
 University of Stuttgart, May 26, 2009

Bibliometrie in der Forschungsevaluierung
 Workshop - Bibliothek der Universität Konstanz
 Konstanz, May 6, 2008

Bibliometrie in der Forschungsevaluierung
 Exzellenz Akademie Materialwissenschaft und Werkstoffwissenschaft (eametwerk)
 Workshop Computational Materials Science
 St. Märgen, March 11, 2008

Gibt es eine Messlatte für Forschungsqualität?
 Jahresversammlung Gesamtbetriebsrat der MPG
 Bad Breisig, September 23, 2005

Die Nachwirkungen von Wilhelm Ostwald in der wissenschaftlichen Literatur
 Gesellschaft Deutscher Chemiker / Wilhelm Ostwald Gesellschaft
 Wilhelm-Ostwald-Festtage
 Großbothen, September 3, 2005

Zitierungszahlen in der Forschungsevaluierung - Aussagekraft, Erstellung und Interpretation
 Evaluierungsstelle ETH / University of Zürich
 Zürich, April 4, 2003

Zitierungszahlen als Resonanzmaß für wissenschaftliche Aktivität - Aussagekraft und
 Probleme der Interpretation
 Forschungszentrum Karlsruhe
 Karlsruhe, February 12, 2003

Die Angewandte Chemie im Lichte des Science Citation Index
 Kuratoriumssitzung der Angewandte Chemie
 Frankfurt, February 15, 2001