

**Publication List of Werner Marx**  
**Max Planck Institute for Solid State Research, Stuttgart (Germany)**  
**Last update: 01-04-2021**

See also the publication list under Google Scholar:

[https://scholar.google.de/citations?hl=de&user=5czWYjsAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.de/citations?hl=de&user=5czWYjsAAAAJ&view_op=list_works&sortby=pubdate)

**Submitted Publications**

W. Marx, R. Haunschild, L. Bornmann  
 Heat Waves – a hot topic in climate change research  
 Submitted to: Theoretical and Applied Climatology

**Publications**

**2020**

K.J.S. Anand, J.M. Roue, C.R. Rovnaghi, W. Marx, L. Bornmann  
 Historical roots of pain management in infants: A bibliometric analysis using reference publication year spectroscopy  
 Paediatric & Neonatal Pain 2(2), 22-32 (2020)  
<https://doi.org/10.1002/pne2.12035>

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 125(6), 2955-2969 (2020)  
<https://doi.org/10.1007/s11192-020-03358-z>

**2019**

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), 1-14 (2019).  
<https://doi.org/10.1177/0165551519837175>

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>

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](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 14<sup>th</sup> 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 YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7- $\delta$</sub>   
 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](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](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](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