

Dr. Robin Haunschild – list of publications

Publications regarding scientometrics:

See also the publication lists at:

- Google Scholar: <https://scholar.google.de/citations?user=kDfateQAAAAAJ&hl=de>

- ResearcherID: <http://www.researcherid.com/rid/A-9925-2010>

- ORCID: <http://orcid.org/0000-0001-7025-7256>

108. Haunschild, R. (2021). „Mendeley”. In „Handbook Bibliometrics”, Ed. Rafael Ball (pp. 281-288). Berlin, Boston: De Gruyter Saur. DOI 10.1515/9783110646610.
107. Patel, VM; Haunschild, R; Bornmann, L; Garas, G, „A call for governments to pause Twitter censorship: using Twitter data as social-spatial sensors of COVID-19/SARS-CoV-2 research diffusion”, *Scientometrics*, **126**, 3193-3207 (2021), DOI 10.1007/s11192-020-03843-5.
106. Bornmann, L; Haunschild, R; Patel, VM, „Are papers addressing certain diseases perceived where these diseases are prevalent? The proposal to use Twitter data as social-spatial sensors”, *PLoS One*, **15** (2020), DOI 10.1371/journal.pone.0242550.
105. Bornmann, L; Haunschild, R; Mutz, R, „Should citations be field-normalized in evaluative bibliometrics? An empirical analysis based on propensity score matching”, *J. Informetr.*, **14** (2020), DOI 10.1016/j.joi.2020.101098.
104. Kremer, RK; Bussmann-Holder, A; Keller, H; Haunschild, R, „The Crucial Things in Science Often Happen Quite Unexpectedly-Das Entscheidende in der Wissenschaft geschieht oft ganz unerwartet (K. Alex Muller)”, *Condens. Matter*, **5** (2020), DOI 10.3390/cond-mat5030043.
103. Haunschild, R; Leydesdorff, L; Bornmann, L, „Library and Information Science Papers Discussed on Twitter: A new Network-based Approach for Measuring Public Attention”, *J. Data Info. Sci.*, **5**, 5-17 (2020), DOI 10.2478/jdis-2020-0017.
102. Scheidsteger, T; Haunschild, R, „Telling the story of solar energy meteorology into the satellite era by applying (co-citation) reference publication year spectroscopy”, *Scientometrics*, **125**, 1159-1177 (2020), DOI 10.1007/s11192-020-03597-0.
101. Crothers, C; Bornmann, L; Haunschild, R, „Citation concept analysis (CCA) of Robert K. Merton's book *Social Theory and Social Structure*: How often are certain concepts from

- the book cited in subsequent publications?”, *Quantitative Science Studies* (2020), DOI 10.1162/qss_a-00029.
100. Kassab, O; Bornmann, L; Haunschild, R, „Can altmetrics reflect societal impact considerations?: Exploring the potential of altmetrics in the context of a sustainability science research center”, *Quantitative Science Studies* (2020), DOI 10.1162/qss_a-00032.
 99. Du, J; Li, PX; Haunschild, R; Sun, YN; Tang, XL, „Patent citation linkages as early signs for predicting delayed recognized knowledge: Macro and micro evidence”, *J. Informetr.*, **14** (2020), DOI 10.1016/j.joi.2020.101017.
 98. Haunschild, R; Marx, W; Thor, A; Bornmann, L, „How to identify the roots of broad research topics and fields? The introduction of RPYS sampling using the example of climate change research”, *J. Inf. Sci.*, **46**, 392-405 (2020), DOI 10.1177/0165551519837175.
 97. Bornmann, L; Wray, KB; Haunschild, R, „Citation concept analysis (CCA): a new form of citation analysis revealing the usefulness of concepts for other researchers illustrated by exemplary case studies including classic books by Thomas S. Kuhn and Karl R. Popper”, *Scientometrics*, **122**, 1051-1074 (2020), DOI 10.1007/s11192-019-03326-2.
 96. Haunschild, R; Marx, W, „Discovering seminal works with marker papers”, *Scientometrics* (2020), DOI 10.1007/s11192-020-03358-z.
 95. Haunschild, R, „Which Are the Most Influential Cited References in Information?”, *Information*, **10**, 395 (2019), DOI 10.3390/info10120395.
 94. Haunschild, R; Barth, A; French, B, „A comprehensive analysis of the history of DFT based on the bibliometric method RPYS”, *J. Cheminformatics*, **11**, 72 (2019), DOI 10.1186/s13321-019-0395-y.
 93. Haunschild, R; Bornmann, L; Adams, J, „R package for producing beamplots as a preferred alternative to the h index when assessing single researchers (based on downloads from Web of Science)”, *Scientometrics*, **120**, 925-927 (2019), DOI 10.1007/s11192-019-03147-3.
 92. Haunschild, R; Bauer, J; Bornmann, L, „Influential cited references in FEMS Microbiology Letters: lessons from Reference Publication Year Spectroscopy (RPYS)”, *FEMS Microbiol. Lett.*, **366**, fnz139 (2019), DOI 10.1093/femsle/fnz139.
 91. Haunschild, R; Leydesdorff, L; Bornmann, L; Hellsten, I; Marx, W, *Does the public discuss other topics on climate change than researchers? A comparison of explorative networks based on author keywords and hashtags*, *J. Informetr.*, **13**, 695-707 (2019), DOI

10.1016/j.joi.2019.03.008. See correction DOI 10.1016/j.joi.2020.101020.

90. Bornmann, L; Haunschild, R; Adams, J, „Do altmetrics assess societal impact in a comparable way to case studies? An empirical test of the convergent validity of altmetrics based on data from the UK research excellence framework (REF)”, *J. Informetr.*, **13**, 325-340 (2019), DOI 10.1016/j.joi.2019.01.008.
89. Bornmann, L; Haunschild, R; Mutz, R, „MHq indicators for zero -inflated count data A response to the comment by Smolinsky (in press)”, *J. Informetr.*, **13**, 464-465 (2019), DOI 10.1016/j.joi.2019.02.004.
88. Bornmann, L; Haunschild, R, „Societal Impact Measurement of Research Papers”, Springer Handbook of Science and Technology Indicators, Springer, Cham, 609-632 (2019).
87. Scheidsteiger, T; Haunschild, R, „Telling the Early Story of Solar Energy Meteorology by Applying (Co-Citation) Reference Publication Year Spectroscopy”, *Proceedings of the 17th International Conference on Scientometrics and Informetrics (ISSI 2019)*, 1964-1974 (2019).
86. Haunschild, R; Leydesdorff, L; Bornmann, L, „Library and Information Science papers as Topics on Twitter: A network approach to measuring public attention”, *Proceedings of the 17th International Conference on Scientometrics and Informetrics (ISSI 2019)*, 2481-2482 (2019).
85. Thor, A; Bornmann, L; Haunschild, R; Leydesdorff, L, „Which are the influential publications in the Web of Science subject categories over a long period of time? CRExplorer software used for big-data analyses in bibliometrics”, *Proceedings of the 17th International Conference on Scientometrics and Informetrics (ISSI 2019)*, 501-510 (2019).
84. Du, J; Li, PX; Haunschild, R; Sun, YN; Tang, XL, „Patent citations to scientific papers as early signs for predicting delayed recognition of scientific discoveries: a comparative study with instant recognition”, *Proceedings of the 17th International Conference on Scientometrics and Informetrics (ISSI 2019)*, 1307-1318 (2019).
83. Bornmann, L; Haunschild, R; Adams, J, „Convergent validity of altmetrics and case studies for assessing societal impact: an analysis based on UK Research Excellence Framework (REF) data”, *23rd International Conference on Science and Technology Indicators (STI 2018)*, September 12-14, Leiden, The Netherlands, <https://hdl.handle.net/1887/64521>, 41-48 (2018).

82. Scheidsteger, T; Haunschild, R; Hug, S; Bornmann, L, „The concordance of field-normalized scores based on Web of Science and Microsoft Academic data: A case study in computer sciences”, *23rd International Conference on Science and Technology Indicators (STI 2018)*, September 12-14, Leiden, The Netherlands, <https://hdl.handle.net/1887/64521>, 19-26 (2018).
81. Haunschild, R; Marx, W; French, B; Bornmann, L, „Relationship between field-normalized indicators calculated with different approaches of field-categorization”, *23rd International Conference on Science and Technology Indicators (STI 2018)*, September 12-14, Leiden, The Netherlands, <https://hdl.handle.net/1887/64521>, 11-18 (2018).
80. Marx, W; Haunschild, R; Bornmann, L, „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**, 90 (2018), DOI 10.3390/cli6040090.
79. Bornmann, L; Haunschild, R, „Alternative article-level metrics The use of alternative metrics in research evaluation”, *EMBO Rep.*, **19**, e47260 (2018), DOI 10.15252/embr.201847260.
78. Bornmann, L; Haunschild, R; Mutz, R, „MHq indicators for zero-inflated count data - A response to Smolinsky and Marx (2018)”, *J. Informetr.*, **12**, 1012-1014 (2018), DOI 10.1016/j.joi.2018.08.001.
77. Bornmann, L; Haunschild, R, „Normalization of zero-inflated data: An empirical analysis of a new indicator family and its use with altmetrics data”, *J. Informetr.*, **12**, 998-1011 (2018), DOI 10.1016/j.joi.2018.01.010.
76. Haunschild, R; Bornmann, L, „Field- and time-normalization of data with many zeros: an empirical analysis using citation and Twitter data”, *Scientometrics*, **116**, 997-1012 (2018), DOI 10.1007/s11192-018-2771-1.
75. Bornmann, L; Haunschild, R, „Do altmetrics correlate with the quality of papers? A large-scale empirical study based on F1000Prime data”, *PLoS One*, **13**, e0197133 (2018), DOI 10.1371/journal.pone.0197133.
74. Haunschild, R; Schier, H; Marx, W; Bornman, L, „Algorithmically generated subject categories based on citation relations: An empirical micro study using papers on overall water splitting”, *J. Informetr.*, **12**, 436-447 (2018), DOI 10.1016/j.joi.2018.03.004.
73. Bornmann, L; Haunschild, R, „Allegation of scientific misconduct increases Twitter attention”, *Scientometrics*, **115**, 1097-1100 (2018), DOI 10.1007/s11192-018-2698-6.

72. Bornmann, L; Haunschild, R, „Measuring Individual Performance with Comprehensive Bibliometric Reports as an Alternative to h-Index Values”, *J. Korean Med. Sci.*, **33**, e138 (2018), DOI 10.3346/jkms.2018.33.e138.
71. Bornmann, L; Haunschild, R, Plots for visualizing paper impact and journal impact of single researchers in a single graph, *Scientometrics*, **115**, 385-394 (2018), DOI 10.1007/s11192-018-2658-1.
70. Bornmann, L; Haunschild, R; Hug, SE, „Visualizing the context of citations referencing papers published by Eugene Garfield: a new type of keyword co-occurrence analysis”, *Scientometrics*, **114**, 427-437 (2018), DOI 10.1007/s11192-017-2591-8.
69. Bornmann, L; Haunschild, R; Leydesdorff, L, „Reference publication year spectroscopy (RPYS) of Eugene Garfield’s publications”, *Scientometrics*, **114**, 439-448 (2018), DOI 10.1007/s11192-017-2608-3.
68. Haunschild, R; Hug, SE; Brandle, MP; Bornmann, L, „The number of linked references of publications in Microsoft Academic in comparison with the Web of Science”, *Scientometrics*, **114**, 367-370 (2018), DOI 10.1007/s11192-017-2567-8.
67. Bornmann, L; Haunschild, R, „Expected values in percentile indicators” *COLLNET Journal of Scientometrics and Information Management*, **11**, 249-252 (2017)
66. Bornmann, L; Haunschild, R, „Do bibliometrics and altmetrics correlate with the quality of papers? A large-scale empirical study based on F1000Prime, altmetrics, and citation data”, STI 2017. open indicators: innovation, participation and actor-based STI indicators (2017).
65. Marx, W; Haunschild, R; Bornmann, L, „The Role of Climate in the Collapse of the Maya Civilization: A Bibliometric Analysis of the Scientific Discourse”, *Climate*, **5** 88 (2017), DOI 10.3390/cli5040088.
64. Marx, W; Haunschild, R; Bornmann, L, „Global Warming and Tea Production-The Bibliometric View on a Newly Emerging Research Topic”, *Climate*, **5**, 46 (2017), DOI 10.3390/cli5030046.
63. Marx, W; Haunschild, R; French, B; Bornmann, L, „Slow reception and under-citedness in climate change research: A case study of Charles David Keeling, discoverer of the risk of global warming”, *Scientometrics*, **112**, 1079-1092 (2017), DOI 10.1007/s11192-017-2405-z.
62. Bornmann, L; Haunschild, R, „Measuring field-normalized impact of papers on specific societal groups: An altmetrics study based on Mendeley Data”, *Res. Evaluat.*, **26**, 230-241

- (2017), DOI 10.1093/reseval/rvx005.
61. Bornmann, L; Haunschild, R, „Quality and impact considerations in bibliometrics: a reply to Ricker (in press)”, *Scientometrics*, **111**, 1857-1859 (2017), DOI 10.1007/s11192-017-2373-3.
 60. Bornmann, L; Haunschild, R, „Relative Citation Ratio (RCR): An Empirical Attempt to Study a New Field-Normalized Bibliometric Indicator”, *J. Assoc. Inform. Science Tech.*, **68** 1064-1067 (2017), DOI 10.1002/asi.23729.
 59. W. Marx, R. Haunschild, A. Thor, and 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** 335-353 (2017), DOI 10.1007/s11192-016-2177-x.
 58. W. Marx, R. Haunschild, and L. Bornmann, „Climate change and viticulture - a quantitative analysis of a highly dynamic research field”, *VITIS*, **56**, 35-43 (2017), DOI 10.5073/vitis.2017.56.35-43.
 57. R. Haunschild and L. Bornmann, „Normalization of zero-inflated data: An empirical analysis of a new indicator family”, *Proceedings of the 16th International Conference on Scientometrics and Informetrics (ISSI 2017)*, 448-459 (2017), <https://arxiv.org/pdf/1704.02211>.
 56. R. Haunschild and L. Bornmann, „How many scientific papers are mentioned in policy-related documents? An empirical investigation using Web of Science and Altmetric data”, *Scientometrics*, **110**, 1209-1216 (2017), DOI 10.1007/s11192-016-2237-2 (open access).
 55. L. Bornmann and R. Haunschild, „An Empirical Look at the Nature Index”, *J. Assoc. Inform. Science Tech.*, **68**, 653-659 (2017), DOI 10.1002/asi.23682.
 54. L. Bornmann and R. Haunschild, „Does evaluative scientometrics lose its main focus on scientific quality by the new orientation towards societal impact?”, *Scientometrics*, **110**, 937-943 (2017), DOI 10.1007/s11192-016-2200-2 (open access).
 53. W. Marx, R. Haunschild, A. Thor, and L. Bornmann, „Which early works are cited most frequently in climate change research literature? A bibliometric approach based on Reference Publication Year Spectroscopy”, **110**, 335-353 (2017), DOI 10.1007/s11192-016-2177-x (open access).
 52. L. Bornmann, R. Haunschild, and W. Marx, „Policy documents as sources for measuring societal impact: how often is climate change research mentioned in policy-related doc-

- uments?”, *Scientometrics*, **109**, 1477-1495 (2016), DOI 10.1007/s11192-016-2115-y (open access).
51. R. Haunschild, A. Barth, and W. Marx, „Evolution of DFT studies in view of a scientometric perspective”, *Journal of Cheminformatics*, **8**, 52 (2016).
 50. L. Bornmann and R. Haunschild, „Citation score normalized by cited references (CSNCR): The introduction of a new citation impact indicator”, *Journal of Informetrics*, **10**, 875-887 (2016).
 49. R. Haunschild, L. Bornmann, and W. Marx, „Climate change research in view of bibliometrics”, *PLoS One*, **11**, e0160393 (2016), DOI: 10.1371/journal.pone.0160393 (open access).
 48. R. Haunschild, „Alternative Metriken in der Forschungsbewertung”, *Laborjournal*, **7-8**, 40-43 (2016).
 47. L. Bornmann and R. Haunschild, „Normalization of Mendeley reader impact on the reader- and paper-side: A comparison of the mean discipline normalized reader score (MDNRS) with the mean normalized reader score (MNRS) and bare reader counts”, *Journal of Informetrics*, **10**, 776-788 (2016).
 46. L. Bornmann and R. Haunschild, „Efficiency of research performance and the glass researcher”, *Journal of Informetrics*, **10**, 652-654 (2016).
 45. R. Haunschild, H. Schier, and L. Bornmann, „Proposal of a minimum constraint for indicators based on means or averages”, *Journal of Informetrics*, **10**, 485 (2016).
 - L. Bornmann and R. Haunschild, „How to normalize Twitter counts? A first attempt based on journals in the Twitter Index”, *Scientometrics*, **107**, 1405-1422 (2016), DOI: 10.1007/s11192-016-1893-6 (open access).
 44. L. Bornmann, J. Bauer, and R. Haunschild, „Distribution of women and men among highly cited scientists”, *J. Assoc. Inform. Science Tech.*, **66**, 2715 (2016).
 43. L. Bornmann and R. Haunschild, „Relative Citation Ratio (RCR): An empirical attempt to study a new field-normalized bibliometric indicator”, *J. Assoc. Inform. Science Tech.*, **68**, 1064-1067 (2016).
 - 42 R. Haunschild and L. Bornmann, „Proposal of using scaling for calculating field-normalized citation scores”, *Profesional de la Informacion*, **25**, 11 (2016).
 - 41 R. Haunschild and L. Bornmann, „Normalization of reader impact for Mendeley reader statistics”, *Journal of Informetrics*, **10**, 62 (2016).

- 40 R. Haunschild, L. Bornmann, and L. Leydesdorff, „Networks of reader and country status: An analysis of Mendeley reader statistics”, *PeerJ Computer Science*, **32** (2015), open access.
39. L. Bornmann, W. Marx, and R. Haunschild, „Assessment Related to Journals: Peer Review and (Alternative) Metrics” in „Publishing in the Academic World” edited by Ciaran Sugrue and Sefika Martkan, in press (2016).
38. R. Haunschild, „Review about 'Beyond Bibliometrics: Harnessing Multidimensional Indicators of Scholarly Impact'” *J. Scientometric Research*, **4**, 40 (2015).
37. L. Bornmann and R. Haunschild, „Overlay maps based on Mendeley data: The use of altmetrics for readership networks”, *J. Assoc. Inform. Science Tech.*, **67**, 3064-3072 (2016).
36. R. Haunschild, M. Stefaner, and L. Bornmann, „Who publishes, reads, and cites papers? An analysis of country information”, *Proceedings of the 15th International Conference on Scientometrics and Informetrics (ISSI 2015)* (2015).
35. R. Haunschild and L. Bornmann, „F1000Prime: an analysis of discipline-specific reader data from Mendeley”, *F1000Research*, **4**, 41 (2015).
34. L. Bornmann and R. Haunschild, „Which people use which scientific papers? An evaluation of data from F1000 and Mendeley”, *J. Informetrics*, **9**, 477 (2015).
33. R. Haunschild and L. Bornmann, „Criteria for Nature Index questioned”, *Nature*, **517**, 21 (2015).
32. R. Haunschild and L. Bornmann, „Discussion about the new Nature Index”, *Scientometrics*, **102**, 1829 (2015).
31. L. Bornmann and R. Haunschild, „The interest of the scientific community in expert opinions from journal peer review procedures”, *Scientometrics*, **102**, 2187 (2015).

Publications regarding theoretical chemistry:

30. R. Haunschild, „Theoretical Study on the Reaction Mechanism of Carbon Dioxide Reduction to Methanol Using a Homogeneous Ruthenium(II) Phosphine Catalyst” *Polyhedron*, **85**, 543 (2015).
29. K. D. Vogiatzis, R. Haunschild und W. Klopper, „Accurate atomization energies from combining coupled-cluster computations with interference-corrected explicitly-correlated second-order perturbation theory” , *Theor. Chem. Acc.* **133**, 1446 (2014).

28. B. Xiao, J. Sun, A. Ruzsinszky, J. Feng, R. Haunschuld, G. E. Scuseria und J. P. Perdew, „Testing Density Functionals for Structural Phase Transitions of Solids under Pressure: Si, SiO₂ and Zr”, *Phys. Rev. B* **88**, 184103 (2013).
27. J. Sun, B. Xiao, Y. Fang, R. Haunschuld, P. Hao, A. Ruzsinszky, G. I. Csonka, G. E. Scuseria und J. P. Perdew, „Density Functionals that Recognize Covalent, Metallic, and Weak Bonds”, *Phys. Rev. Lett.* **111**, 106401 (2013).
26. R. Haunschuld, L. Cheng, D. Mukherjee und W. Klopper, „Communication: Extension of a universal explicit electron correlation correction to general complete active spaces“, *J. Chem. Phys.* **138**, 212101 (2013).
25. J. Sun, R. Haunschuld, B. Xiao, I. W. Bulik, G. E. Scuseria, and J. P. Perdew, „Semilocal and Hybrid Meta-Generalized Gradient Approximations Based on the Understanding of the Kinetic-Energy-Density Dependence”, *J. Chem. Phys.* **138**, 044113 (2013).
24. R. Haunschuld and W. Klopper, „Erratum to: Theoretical reference values for the AE6 and BH6 test sets from explicitly correlated coupled-cluster theory”, *Theor. Chem. Acc.* **132**, 1306 (2013).
23. R. Haunschuld, J. P. Perdew, and G. E. Scuseria, „Insensitivity of the error of the minimally empirical hybrid functional revTPSSH to its parameters”, *J. Chem. Phys.* **137**, 224104 (2012).
22. M. Odashima, R. Haunschuld, G. E. Scuseria, J. P. Perdew und K. Capelle, „Non-empirical hyper-GGA based on a tighter Lieb-Oxford bound”, *J. Chem. Phys.* **136**, 184102 (2012).
21. R. Haunschuld und W. Klopper, „New accurate reference energies for the G2/97 test set”, *J. Chem. Phys.* **136**, 164102 (2012).
20. R. Haunschuld, S. Mao, D. Mukherjee und W. Klopper, „A universal explicit electron correlation correction applied to Mukherjee’s multi-reference perturbation theory”, *Chem. Phys. Lett.* **531**, 247 (2012).
19. R. Haunschuld und W. Klopper, „Theoretical reference values for the AE6 and BH6 test sets from explicitly correlated coupled-cluster theory”, *Theor. Chem. Acc.* **131**, 1112 (2012).

18. R. Haunschuld, T. M. Henderson, C. A. Jiménez-Hoyos und G. E. Scuseria, „Many-electron self-interaction and spin polarization errors in local hybrid density functionals”, *J. Chem. Phys.* **133**, 134116 (2010).
17. R. Haunschuld und G. E. Scuseria, „Range-separated local hybrids”, *J. Chem. Phys.* **132**, 224308 (2010).
16. R. Haunschuld, B. G. Janesko und G. E. Scuseria, „Range-separated local hybrid density functional approximations based on Gaussian-type mixing functions”, *Abstracts of Papers of the Am. Chem. Soc.* **239**, COMP-194 (2010).
15. M. A. Celik, R. Haunschuld und G. Frenking, „Quantum Chemical Study on Ethylene Addition to $(O)_2Os(NH)_2$ and $(O)_2Os(NH)$ -cyclo- $(NHCH_2CH_2HN)$ as Model Complexes for the Osmium-Catalyzed Aminohydroxylation of Olefins”, *Organometallics* **29**, 1560 (2010).
14. R. Haunschuld, B. G. Janesko und G. E. Scuseria, „Local hybrids as a perturbation to global hybrid functionals”, *J. Chem. Phys.* **131**, 154112 (2009).
13. C. Goedecke, P. Hillebrecht, T. Uhlemann, R. Haunschuld und G. Frenking, „Bonding Analysis of Neutral Donor Acceptor Complexes of non-chelating EX_3 and $M(PMe_3)_2$, $E = B, Al, Ga, In, Tl$; $X = H, F, Cl, Br, I$ and $M = Ni, Pd, Pt$ ”, *Can. J. Chem.* **87**, 1470 (2009).
12. R. Haunschuld und G. Frenking, „Comparative Theoretical Study of [3+2] and [2+2] Cycloadditions of Ethylene and $WXYMe_2$; $X, Y = (=O), (=NH), (=CH_2)$ ”, *J. Organomet. Chem.* **694**, 4090 (2009).
11. R. Haunschuld und G. Frenking, „Tetrahedranes. A theoretical study of singlet E_4H_4 molecules ($E = C-Pb$ and $B-Tl$)”, *Mol. Phys.* **107**, 911 (2009).
10. R. Haunschuld, S. Tüllmann, G. Frenking und M. C. Holthausen, „Ethylene Addition to $Ru(=CH_2)(=O)_3$ A Theoretical Study”, *J. Organomet. Chem.* **694**, 1081 (2009).
9. F. E. Hahn, A. V. Zabula, T. Pape, A. Hepp, R. Tonner, R. Haunschuld und G. Frenking, „ π -Bonding in Complexes of Benzanulated Biscarbenes, -germylenes and -stannylenes: An Experimental and Theoretical Study”, *Chem. Eur. J.* **14**, 10716 (2008).

8. R. Haunschild und G. Frenking, „Theoretical Studies of Organometallic Compounds. Ethylene Addition to Group-9 Transition Metal Dioxo Compounds – A Quantum Chemical Study”, *Z. Anorg. Allg. Chem.* **634**, 2145 (2008).
7. R. Haunschild und G. Frenking, „Quantum Chemical Study of Ethylene Addition to Group-7 Transition Metal Oxo Complexes”, *J. Organomet. Chem.* **693**, 3627 (2008).
6. R. Haunschild, „Quantenchemische Untersuchungen von Ethylenadditionen an hochvalente Übergangsmetallkomplexe der Gruppen 6 bis 9”, Dissertation, *ibidem*-Verlag, ISBN 978-3-89821-889-4, Stuttgart (2008).
5. R. Haunschild und G. Frenking, „Ethylene Addition to Group-6 Transition Metal Oxo Complexes – A Theoretical Study”, *J. Organomet. Chem.* **693**, 737 (2008).
4. R. Haunschild und G. Frenking, „Theoretical Study of Ethylene Addition to $\text{O}=\text{W}(=\text{CH}_2)(\text{CH}_3)_2$ ”, *Z. Naturforsch.* **62b**, 367 (2007).
3. R. Haunschild, C. Loschen, S. Tüllmann, D. Cappel, M. Hölscher, M. C. Holthausen und G. Frenking, „Theoretical studies of ethylene addition to transition metal compounds with carbene and oxo groups $\text{L}_n\text{M}(=\text{CH}_2)(=\text{O})$ ”, *J. Phys. Org. Chem.* **20**, 11 (2007).
2. R. Haunschild, „Semiempirische Untersuchungen von Lösungsmittelleffekten mit Hilfe des asymptotischen Dichtemodells”, *ibidem*-Verlag, ISBN 3-89821-888-0, Stuttgart (2005).
1. R. Haunschild, „Quantenchemische Untersuchungen an Metallocenverbindungen”, *ibidem*-Verlag, ISBN 3-89821-335-8, Stuttgart (2004).