

# Robin Haunschild

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101  
papers

1,825  
citations

24  
h-index

38  
g-index

109  
ext. papers

2,168  
ext. citations

3.4  
avg, IF

5.71  
L-index

#	Paper	IF	Citations
101	Density functionals that recognize covalent, metallic, and weak bonds. <i>Physical Review Letters</i> , <b>2013</b> , 111, 106401	7.4	143
100	Semilocal and hybrid meta-generalized gradient approximations based on the understanding of the kinetic-energy-density dependence. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 044113	3.9	136
99	Climate Change Research in View of Bibliometrics. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160393	3.7	122
98	Many-electron self-interaction and spin polarization errors in local hybrid density functionals. <i>Journal of Chemical Physics</i> , <b>2010</b> , 133, 134116	3.9	78
97	Testing density functionals for structural phase transitions of solids under pressure: Si, SiO <sub>2</sub> , and Zr. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	74
96	Do altmetrics correlate with the quality of papers? A large-scale empirical study based on F1000Prime data. <i>PLoS ONE</i> , <b>2018</b> , 13, e0197133	3.7	58
95	Visualizing the context of citations referencing papers published by Eugene Garfield: a new type of keyword co-occurrence analysis. <i>Scientometrics</i> , <b>2018</b> , 114, 427-437	3	52
94	pi-Bonding in complexes of benzannulated biscarbenes, -germylenes, and -stannylenes: an experimental and theoretical study. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 10716-21	4.8	48
93	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). <i>Journal of Informetrics</i> , <b>2019</b> , 13, 325-340	3.1	45
92	Policy documents as sources for measuring societal impact: how often is climate change research mentioned in policy-related documents?. <i>Scientometrics</i> , <b>2016</b> , 109, 1477-1495	3	45
91	New accurate reference energies for the G2/97 test set. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 164102	3.9	40
90	Normalization of Mendeley reader counts for impact assessment. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 62-73	3.1	38
89	Does evaluative scientometrics lose its main focus on scientific quality by the new orientation towards societal impact?. <i>Scientometrics</i> , <b>2017</b> , 110, 937-943	3	36
88	Range-separated local hybrids. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 224106	3.9	34
87	Which early works are cited most frequently in climate change research literature? A bibliometric approach based on Reference Publication Year Spectroscopy. <i>Scientometrics</i> , <b>2017</b> , 110, 335-353	3	31
86	Hyper-generalized-gradient functionals constructed from the Lieb-Oxford bound: implementation via local hybrids and thermochemical assessment. <i>Journal of Chemical Physics</i> , <b>2012</b> , 136, 184102	3.9	31
85	How many scientific papers are mentioned in policy-related documents? An empirical investigation using Web of Science and Altmetric data. <i>Scientometrics</i> , <b>2017</b> , 110, 1209-1216	3	30

84	Local hybrids as a perturbation to global hybrid functionals. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 1541-1542	3.2	30
83	How to normalize Twitter counts? A first attempt based on journals in the Twitter Index. <i>Scientometrics</i> , <b>2016</b> , 107, 1405-1422	3	29
82	Theoretical reference values for the AE6 and BH6 test sets from explicitly correlated coupled-cluster theory. <i>Theoretical Chemistry Accounts</i> , <b>2012</b> , 131, 1	1.9	29
81	Does the public discuss other topics on climate change than researchers? A comparison of explorative networks based on author keywords and hashtags. <i>Journal of Informetrics</i> , <b>2019</b> , 13, 695-707 <sup>3.1</sup>	3.1	27
80	Accurate atomization energies from combining coupled-cluster computations with interference-corrected explicitly correlated second-order perturbation theory. <i>Theoretical Chemistry Accounts</i> , <b>2014</b> , 133, 1	1.9	26
79	Which people use which scientific papers? An evaluation of data from F1000 and Mendeley. <i>Journal of Informetrics</i> , <b>2015</b> , 9, 477-487	3.1	25
78	Evolution of DFT studies in view of a scientometric perspective. <i>Journal of Cheminformatics</i> , <b>2016</b> , 8, 52	8.6	25
77	Normalization of zero-inflated data: An empirical analysis of a new indicator family and its use with altmetrics data. <i>Journal of Informetrics</i> , <b>2018</b> , 12, 998-1011	3.1	24
76	Citation score normalized by cited references (CSNCR): The introduction of a new citation impact indicator. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 875-887	3.1	23
75	Tetrahedranes. A theoretical study of singlet E4H4 molecules (E = C, B, Al, Ga, In, Tl). <i>Molecular Physics</i> , <b>2009</b> , 107, 911-922	1.7	23
74	Global Warming and Tea Production – The Bibliometric View on a Newly Emerging Research Topic. <i>Climate</i> , <b>2017</b> , 5, 46	3.1	21
73	A universal explicit electron correlation correction applied to Mukherjee's multi-reference perturbation theory. <i>Chemical Physics Letters</i> , <b>2012</b> , 531, 247-251	2.5	20
72	Relative Citation Ratio (RCR): An empirical attempt to study a new field-normalized bibliometric indicator. <i>Journal of the Association for Information Science and Technology</i> , <b>2017</b> , 68, 1064-1067	2.7	19
71	The Dewar-Chatt-Duncanson model reversed [Bonding analysis of group-10 complexes [(PMe <sub>3</sub> ) <sub>2</sub> MX <sub>3</sub> ] (M = Ni, Pd, Pt; E = B, Al, Ga, In, Tl; X = H, F, Cl, Br, I). <i>Canadian Journal of Chemistry</i> , <b>2009</b> , 87, 1470-1479	0.9	19
70	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. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 776-788	3.1	18
69	Theoretical studies of ethylene addition to transition metal compounds with carbene and oxo groups LnM(=CH <sub>2</sub> )(=O). <i>Journal of Physical Organic Chemistry</i> , <b>2007</b> , 20, 11-18	2.1	18
68	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. <i>Scientometrics</i> , <b>2020</b> , 122, 1051-1074	3	17
67	Ethylene addition to group-6 transition metal oxo complexes [A theoretical study. <i>Journal of Organometallic Chemistry</i> , <b>2008</b> , 693, 737-749	2.3	16

66	Theoretical study on the reaction mechanism of carbon dioxide reduction to methanol using a homogeneous ruthenium(II) phosphine catalyst. <i>Polyhedron</i> , <b>2015</b> , 85, 543-548	2.7	15
65	Algorithmically generated subject categories based on citation relations: An empirical micro study using papers on overall water splitting. <i>Journal of Informetrics</i> , <b>2018</b> , 12, 436-447	3.1	15
64	A comprehensive analysis of the history of DFT based on the bibliometric method RPYS. <i>Journal of Cheminformatics</i> , <b>2019</b> , 11, 72	8.6	15
63	Reference publication year spectroscopy (RPYS) of Eugene Garfield's publications. <i>Scientometrics</i> , <b>2018</b> , 114, 439-448	3	14
62	The Role of Climate in the Collapse of the Maya Civilization: A Bibliometric Analysis of the Scientific Discourse. <i>Climate</i> , <b>2017</b> , 5, 88	3.1	13
61	Quantum chemical study of ethylene addition to group-7 oxo complexes MO <sub>2</sub> (CH <sub>3</sub> )(CH <sub>2</sub> ) (M = Mn, Tc, Re). <i>Journal of Organometallic Chemistry</i> , <b>2008</b> , 693, 3627-3637	2.3	13
60	Field- and time-normalization of data with many zeros: an empirical analysis using citation and Twitter data. <i>Scientometrics</i> , <b>2018</b> , 116, 997-1012	3	13
59	Alternative article-level metrics: The use of alternative metrics in research evaluation. <i>EMBO Reports</i> , <b>2018</b> , 19,	6.5	12
58	Measuring field-normalized impact of papers on specific societal groups: An altmetrics study based on Mendeley Data. <i>Research Evaluation</i> , <b>2017</b> , 26, 230-241	1.7	11
57	Growth rates of modern science: a latent piecewise growth curve approach to model publication numbers from established and new literature databases. <i>Humanities and Social Sciences Communications</i> , <b>2021</b> , 8,	2.8	10
56	Heat waves: a hot topic in climate change research. <i>Theoretical and Applied Climatology</i> , <b>2021</b> , 146, 1-20	3	10
55	Allegation of scientific misconduct increases Twitter attention. <i>Scientometrics</i> , <b>2018</b> , 115, 1097-1100	3	9
54	To what extent does the Leiden manifesto also apply to altmetrics? A discussion of the manifesto against the background of research into altmetrics. <i>Online Information Review</i> , <b>2016</b> , 40, 529-543	2	9
53	Comparative theoretical study of [3+2] and [2+2] cycloadditions of ethylene and WXYMe <sub>2</sub> ; X, Y=(O), (NH), (CH <sub>2</sub> ). <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 4090-4093	2.3	9
52	Ethylene Addition to Group-9 Transition Metal Dioxo Compounds [A Quantum Chemical Study. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , <b>2008</b> , 634, 2145-2155	1.3	9
51	Library and Information Science Papers Discussed on Twitter: A new Network-based Approach for Measuring Public Attention. <i>Journal of Data and Information Science</i> , <b>2020</b> , 5, 5-17	1.2	9
50	Theoretical Study of Ethylene Addition to O=W(=CH <sub>2</sub> )(CH <sub>3</sub> ) <sub>2</sub> . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2007</b> , 62, 367-372	1	8
49	Efficiency of research performance and the glass researcher. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 652-654	3.1	8

48	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. <i>Climate</i> , <b>2018</b> , 6, 90	3.1	8
47	Paper-patent citation linkages as early signs for predicting delayed recognized knowledge: Macro and micro evidence. <i>Journal of Informetrics</i> , <b>2020</b> , 14, 101017	3.1	7
46	Plots for visualizing paper impact and journal impact of single researchers in a single graph. <i>Scientometrics</i> , <b>2018</b> , 115, 385-394	3	7
45	Communication: Extension of a universal explicit electron correlation correction to general complete active spaces. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 211101	3.9	7
44	Quantum Chemical Study on Ethylene Addition to (O?)2Os(?NH)2 and (O?)2Os(?NH)-cyclo-(NHCH2CH2HN) as Model Complexes for the Osmium-Catalyzed Aminohydroxylation of Olefins. <i>Organometallics</i> , <b>2010</b> , 29, 1560-1568	3.8	7
43	The number of linked references of publications in Microsoft Academic in comparison with the Web of Science. <i>Scientometrics</i> , <b>2018</b> , 114, 367-370	3	7
42	Overlay maps based on Mendeley data: The use of altmetrics for readership networks. <i>Journal of the Association for Information Science and Technology</i> , <b>2016</b> , 67, 3064-3072	2.7	6
41	An empirical look at the nature index. <i>Journal of the Association for Information Science and Technology</i> , <b>2017</b> , 68, 653-659	2.7	5
40	Influential cited references in FEMS Microbiology Letters: lessons from Reference Publication Year Spectroscopy (RPYS). <i>FEMS Microbiology Letters</i> , <b>2019</b> , 366,	2.9	5
39	Discussion about the new Nature Index. <i>Scientometrics</i> , <b>2015</b> , 102, 1829-1830	3	5
38	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?. <i>Quantitative Science Studies</i> , <b>2020</b> , 1-16	3.8	5
37	Ethylene addition to Ru(CH2)(O)3 [A theoretical study. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 1081-1090	2.3	5
36	Are papers addressing certain diseases perceived where these diseases are prevalent? The proposal to use Twitter data as social-spatial sensors. <i>PLoS ONE</i> , <b>2020</b> , 15, e0242550	3.7	5
35	t factor: A metric for measuring impact on Twitter. <i>Malaysian Journal of Library and Information Science</i> , <b>2016</b> , 21, 13-20	1.8	5
34	Proposal of using scaling for calculating field-normalized citation scores. <i>Profesional De La Informacion</i> , <b>2016</b> , 25, 11	3.7	5
33	Proposal of a minimum constraint for indicators based on means or averages. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 485-486	3.1	5
32	Can altmetrics reflect societal impact considerations?: Exploring the potential of altmetrics in the context of a sustainability science research center. <i>Quantitative Science Studies</i> , <b>2020</b> , 1-18	3.8	4
31	Discovering seminal works with marker papers. <i>Scientometrics</i> , <b>2020</b> , 125, 2955-2969	3	4

30	Slow reception and under-citedness in climate change research: A case study of Charles David Keeling, discoverer of the risk of global warming. <i>Scientometrics</i> , <b>2017</b> , 112, 1079-1092	3	4
29	Distribution of women and men among highly cited scientists. <i>Journal of the Association for Information Science and Technology</i> , <b>2015</b> , 66, 2715-2716	2.7	4
28	Publishing: Criteria for Nature Index questioned. <i>Nature</i> , <b>2015</b> , 517, 21	50.4	4
27	Networks of reader and country status: an analysis of Mendeley reader statistics. <i>PeerJ Computer Science</i> , 1, e32	2.7	4
26	How to identify the roots of broad research topics and fields? The introduction of RPYS sampling using the example of climate change research. <i>Journal of Information Science</i> , <b>2020</b> , 46, 392-405	2	4
25	Should citations be field-normalized in evaluative bibliometrics? An empirical analysis based on propensity score matching. <i>Journal of Informetrics</i> , <b>2020</b> , 14, 101098	3.1	3
24	Measuring Individual Performance with Comprehensive Bibliometric Reports as an Alternative to -Index Values. <i>Journal of Korean Medical Science</i> , <b>2018</b> , 33, e138	4.7	3
23	F1000Prime: an analysis of discipline-specific reader data from Mendeley. <i>F1000Research</i> , 4, 41	3.6	3
22	Beyond bibliometrics: Harnessing multidimensional indicators of scholarly impact. <i>Journal of Scientometric Research</i> , <b>2015</b> , 4, 40	1.9	3
21	Can tweets be used to detect problems early with scientific papers? A case study of three retracted COVID-19/SARS-CoV-2 papers. <i>Scientometrics</i> , <b>2021</b> , 126, 1-19	3	3
20	Which Are the Most Influential Cited References in Information?. <i>Information (Switzerland)</i> , <b>2019</b> , 10, 395	2.6	3
19	Quality and impact considerations in bibliometrics: a reply to Ricker (in press). <i>Scientometrics</i> , <b>2017</b> , 111, 1857-1859	3	2
18	The interest of the scientific community in expert opinions from journal peer review procedures. <i>Scientometrics</i> , <b>2015</b> , 102, 2187-2188	3	2
17	MHq indicators for zero-inflated count data [A response to Smolinsky and Marx (2018)]. <i>Journal of Informetrics</i> , <b>2018</b> , 12, 1012-1014	3.1	2
16	Empirical analysis of recent temporal dynamics of research fields: Annual publications in chemistry and related areas as an example. <i>Journal of Informetrics</i> , <b>2022</b> , 16, 101253	3.1	2
15	Investigating Dissemination of Scientific Information on Twitter: A Study of Topic Networks in Opioid Publications. <i>Quantitative Science Studies</i> , 1-56	3.8	2
14	Mapping the impact of papers on various status groups in excellencemapping.net: a new release of the excellence mapping tool based on citation and reader scores. <i>Scientometrics</i> , <b>2021</b> , 126, 9305-9331	3	2
13	Societal Impact Measurement of Research Papers. <i>Springer Handbooks</i> , <b>2019</b> , 609-632	1.3	2

12	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. <i>Journal of Information Science</i> , <b>2021</b> , 47, 419-428	2	2
11	A call for governments to pause Twitter censorship: using Twitter data as social-spatial sensors of COVID-19/SARS-CoV-2 research diffusion. <i>Scientometrics</i> , <b>2021</b> , 126, 1-15	3	2
10	Bibliometric Analysis in the Field of Quantum Technology. <i>Quantum Reports</i> , <b>2021</b> , 3, 549-575	2.1	2
9	MHq indicators for zero-inflated count data A response to the comment by Smolinsky (in press). <i>Journal of Informetrics</i> , <b>2019</b> , 13, 464-465	3.1	1
8	The Crucial Things in Science Often Happen Quite Unexpectedly Das Entscheidende in der Wissenschaft geschieht oft ganz unerwartet (K. Alex Müller). <i>Condensed Matter</i> , <b>2020</b> , 5, 43	1.8	1
7	Insensitivity of the error of the minimally empirical hybrid functional revTPSSh to its parameters. <i>Journal of Chemical Physics</i> , <b>2012</b> , 137, 224104	3.9	1
6	A call for governments to pause Twitter censorship: a cross-sectional study using Twitter data as social-spatial sensors of COVID-19/SARS-CoV-2 research diffusion		1
5	Reference publication year spectroscopy (RPYS) in practice: a software tutorial. <i>Scientometrics</i> , 1	3	1
4	R package for producing beamplots as a preferred alternative to the h index when assessing single researchers (based on downloads from Web of Science). <i>Scientometrics</i> , <b>2019</b> , 120, 925-927	3	0
3	Scores of a specific field-normalized indicator calculated with different approaches of field-categorization: Are the scores different or similar?. <i>Journal of Informetrics</i> , <b>2022</b> , 16, 101241	3.1	0
2	Expected values in percentile indicators. <i>Collnet Journal of Scientometrics and Information Management</i> , <b>2017</b> , 11, 249-252	0.5	
1	Telling the story of solar energy meteorology into the satellite era by applying (co-citation) reference publication year spectroscopy. <i>Scientometrics</i> , <b>2020</b> , 125, 1159-1177	3	