

Ludo Waltman

List of Publications by Year in Descending Order

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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.

94
papers

13,486
citations

44
h-index

105
g-index

105
ext. papers

19,130
ext. citations

5.8
avg. IF

7.5
L-index

#	Paper	IF	Citations
94	A large-scale bibliometric analysis of global climate change research between 2001 and 2018. <i>Climatic Change</i> , 2022 , 170, 1	4.5	1
93	Science of science. <i>Bibliosfera</i> , 2021 , 25-42	0.4	0
92	Algorithmic labeling in hierarchical classifications of publications: Evaluation of bibliographic fields and term weighting approaches. <i>Journal of the Association for Information Science and Technology</i> , 2021 , 72, 853-869	2.7	2
91	A scientometric overview of COVID-19. <i>PLoS ONE</i> , 2021 , 16, e0244839	3.7	27
90	A multidimensional framework for characterizing the citation impact of scientific publications. <i>Quantitative Science Studies</i> , 2021 , 2, 155-183	3.8	6
89	Large-scale comparison of bibliographic data sources: Scopus, Web of Science, Dimensions, Crossref, and Microsoft Academic. <i>Quantitative Science Studies</i> , 2021 , 2, 20-41	3.8	64
88	Investigating disagreement in the scientific literature.. <i>ELife</i> , 2021 , 10,	8.9	8
87	Intermediacy of publications. <i>Royal Society Open Science</i> , 2020 , 7, 190207	3.3	3
86	Opening science: The rebirth of a scholarly journal. <i>Quantitative Science Studies</i> , 2020 , 1, 1-3	3.8	3
85	Special issue on bibliographic data sources. <i>Quantitative Science Studies</i> , 2020 , 1, 360-362	3.8	10
84	Use of the journal impact factor for assessing individual articles need not be statistically wrong. <i>F1000Research</i> , 2020 , 9, 366	3.6	9
83	Use of the journal impact factor for assessing individual articles need not be statistically wrong. <i>F1000Research</i> , 2020 , 9, 366	3.6	5
82	Rethinking impact factors: better ways to judge a journal. <i>Nature</i> , 2019 , 569, 621-623	50.4	25
81	From Louvain to Leiden: guaranteeing well-connected communities. <i>Scientific Reports</i> , 2019 , 9, 5233	4.9	707
80	Field Normalization of Scientometric Indicators. <i>Springer Handbooks</i> , 2019 , 281-300	1.3	13
79	Systematic analysis of agreement between metrics and peer review in the UK REF. <i>Palgrave Communications</i> , 2019 , 5,	5.3	24
78	Science of science. <i>Science</i> , 2018 , 359,	33.3	373

77	Improving the evaluation of worldwide biomedical research output: classification method and standardised bibliometric indicators by disease. <i>BMJ Open</i> , 2018 , 8, e020818	3	
76	Analyzing the activities of visitors of the Leiden Ranking website. <i>Journal of Data and Information Science</i> , 2018 , 3, 81-98	1.2	1
75	Characterizing in-text citations in scientific articles: A large-scale analysis. <i>Journal of Informetrics</i> , 2018 , 12, 59-73	3.1	62
74	The Closer the Better: Similarity of Publication Pairs at Different Cocitation Levels. <i>Journal of the Association for Information Science and Technology</i> , 2018 , 69, 600-609	2.7	16
73	Citation-based clustering of publications using CitNetExplorer and VOSviewer. <i>Scientometrics</i> , 2017 , 111, 1053-1070	3	45 ²
72	Topic identification challenge. <i>Scientometrics</i> , 2017 , 111, 1223-1224	3	11
71	Impact factors: Is the Nature Index at odds with DORA?. <i>Nature</i> , 2017 , 545, 412	50.4	1
70	Conceptual difficulties in the use of statistical inference in citation analysis. <i>Journal of Informetrics</i> , 2016 , 10, 1249-1252	3.1	8
69	Constructing bibliometric networks: A comparison between full and fractional counting. <i>Journal of Informetrics</i> , 2016 , 10, 1178-1195	3.1	311
68	A review of the literature on citation impact indicators. <i>Journal of Informetrics</i> , 2016 , 10, 365-391	3.1	476
67	Clustering Scientific Publications Based on Citation Relations: A Systematic Comparison of Different Methods. <i>PLoS ONE</i> , 2016 , 11, e0154404	3.7	63
66	A Large-Scale Analysis of Impact Factor Biased Journal Self-Citations. <i>PLoS ONE</i> , 2016 , 11, e0161021	3.7	46
65	Large-scale analysis of the accuracy of the journal classification systems of Web of Science and Scopus. <i>Journal of Informetrics</i> , 2016 , 10, 347-364	3.1	132
64	The elephant in the room: The problem of quantifying productivity in evaluative scientometrics. <i>Journal of Informetrics</i> , 2016 , 10, 671-674	3.1	14
63	Predicting the long-term citation impact of recent publications. <i>Journal of Informetrics</i> , 2015 , 9, 642-657	3.1	62
62	Field-normalized citation impact indicators and the choice of an appropriate counting method. <i>Journal of Informetrics</i> , 2015 , 9, 872-894	3.1	127
61	Field-normalized citation impact indicators using algorithmically constructed classification systems of science. <i>Journal of Informetrics</i> , 2015 , 9, 102-117	3.1	76
60	Bibliometrics: The Leiden Manifesto for research metrics. <i>Nature</i> , 2015 , 520, 429-31	50.4	908

59	A Longitudinal Analysis of Publications on Maternal Mortality. <i>Paediatric and Perinatal Epidemiology</i> , 2015 , 29, 481-9	2.7	6
58	F1000 Recommendations as a Potential New Data Source for Research Evaluation: A Comparison With Citations. <i>Journal of the Association for Information Science and Technology</i> , 2014 , 65, 433-445	2.7	76
57	CitNetExplorer: A new software tool for analyzing and visualizing citation networks. <i>Journal of Informetrics</i> , 2014 , 8, 802-823	3.1	254
56	PageRank-Related Methods for Analyzing Citation Networks 2014 , 83-100		7
55	Visualizing Bibliometric Networks 2014 , 285-320		375
54	Mapping patient safety: a large-scale literature review using bibliometric visualisation techniques. <i>BMJ Open</i> , 2014 , 4, e004468	3	45
53	The correlation between citation-based and expert-based assessments of publication channels: SNIP and SJR vs. Norwegian quality assessments. <i>Journal of Informetrics</i> , 2014 , 8, 985-996	3.1	22
52	Exploring the relationship between the engineering and physical sciences and the health and life sciences by advanced bibliometric methods. <i>PLoS ONE</i> , 2014 , 9, e111530	3.7	12
51	A systematic empirical comparison of different approaches for normalizing citation impact indicators. <i>Journal of Informetrics</i> , 2013 , 7, 833-849	3.1	83
50	Some modifications to the SNIP journal impact indicator. <i>Journal of Informetrics</i> , 2013 , 7, 272-285	3.1	116
49	A smart local moving algorithm for large-scale modularity-based community detection. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	411
48	An Evolutionary Model of Price Competition Among Spatially Distributed Firms. <i>Computational Economics</i> , 2013 , 42, 373-391	1.4	2
47	Source normalized indicators of citation impact: an overview of different approaches and an empirical comparison. <i>Scientometrics</i> , 2013 , 96, 699-716	3	81
46	On the calculation of percentile-based bibliometric indicators. <i>Journal of the Association for Information Science and Technology</i> , 2013 , 64, 372-379		93
45	Counting publications and citations: Is more always better?. <i>Journal of Informetrics</i> , 2013 , 7, 635-641	3.1	42
44	Citation analysis may severely underestimate the impact of clinical research as compared to basic research. <i>PLoS ONE</i> , 2013 , 8, e62395	3.7	137
43	Universality of citation distributions revisited. <i>Journal of the Association for Information Science and Technology</i> , 2012 , 63, 72-77		53
42	The inconsistency of the h-index. <i>Journal of the Association for Information Science and Technology</i> , 2012 , 63, 406-415		182

41	The Leiden ranking 2011/2012: Data collection, indicators, and interpretation. <i>Journal of the Association for Information Science and Technology</i> , 2012 , 63, 2419-2432		228
40	A new methodology for constructing a publication-level classification system of science. <i>Journal of the Association for Information Science and Technology</i> , 2012 , 63, 2378-2392		290
39	An empirical analysis of the use of alphabetical authorship in scientific publishing. <i>Journal of Informetrics</i> , 2012 , 6, 700-711	3.1	101
38	Some Limitations of the H Index: A Commentary on Ruscio and Colleagues' Analysis of Bibliometric Indices. <i>Measurement</i> , 2012 , 10, 172-175	1.3	8
37	A mathematical analysis of the long-run behavior of genetic algorithms for social modeling. <i>Soft Computing</i> , 2012 , 16, 1071-1089	3.5	1
36	The detection of hot regions in the geography of science: A visualization approach by using density maps. <i>Journal of Informetrics</i> , 2011 , 5, 547-553	3.1	49
35	Globalisation of science in kilometres. <i>Journal of Informetrics</i> , 2011 , 5, 574-582	3.1	54
34	Collaborations span 1,553 kilometres. <i>Nature</i> , 2011 , 473, 154	50.4	8
33	Relations between the shape of a size-frequency distribution and the shape of a rank-frequency distribution. <i>Information Processing and Management</i> , 2011 , 47, 238-245	6.3	16
32	Towards a new crown indicator: an empirical analysis. <i>Scientometrics</i> , 2011 , 87, 467-481	3	152
31	On the correlation between bibliometric indicators and peer review: reply to Opthof and Leydesdorff. <i>Scientometrics</i> , 2011 , 88, 1017-1022	3	16
30	A recursive field-normalized bibliometric performance indicator: an application to the field of library and information science. <i>Scientometrics</i> , 2011 , 89, 301-314	3	44
29	Economic modeling using evolutionary algorithms: the effect of a binary encoding of strategies. <i>Journal of Evolutionary Economics</i> , 2011 , 21, 737-756	1.9	14
28	Towards a new crown indicator: Some theoretical considerations. <i>Journal of Informetrics</i> , 2011 , 5, 37-47	3.1	249
27	Software survey: VOSviewer, a computer program for bibliometric mapping. <i>Scientometrics</i> , 2010 , 84, 523-538	3	3982
26	Automatic term identification for bibliometric mapping. <i>Scientometrics</i> , 2010 , 82, 581-596	3	129
25	The relation between Eigenfactor, audience factor, and influence weight. <i>Journal of the Association for Information Science and Technology</i> , 2010 , 61, 1476-1486		27
24	A comparison of two techniques for bibliometric mapping: Multidimensional scaling and VOS. <i>Journal of the Association for Information Science and Technology</i> , 2010 , 61, 2405-2416		309

23	Rivals for the crown: Reply to Opthof and Leydesdorff. <i>Journal of Informetrics</i> , 2010 , 4, 431-435	3.1	70
22	A unified approach to mapping and clustering of bibliometric networks. <i>Journal of Informetrics</i> , 2010 , 4, 629-635	3.1	739
21	How to normalize cooccurrence data? An analysis of some well-known similarity measures. <i>Journal of the Association for Information Science and Technology</i> , 2009 , 60, 1635-1651		354
20	Robust Evolutionary Algorithm Design for Socio-Economic Simulation: Some Comments. <i>Computational Economics</i> , 2009 , 33, 103-105	1.4	6
19	On the proper understanding of the limiting behavior of generalizations of the h- and g-indices. <i>Journal of Informetrics</i> , 2009 , 3, 369-370	3.1	
18	Some comments on Egghe's derivation of the impact factor distribution. <i>Journal of Informetrics</i> , 2009 , 3, 363-366	3.1	14
17	Some comments on the journal weighted impact factor proposed by Habibzadeh and Yadollahie. <i>Journal of Informetrics</i> , 2008 , 2, 369-372	3.1	4
16	Appropriate similarity measures for author co-citation analysis. <i>Journal of the Association for Information Science and Technology</i> , 2008 , 59, 1653-1661		43
15	Generalizing the h- and g-indices. <i>Journal of Informetrics</i> , 2008 , 2, 263-271	3.1	96
14	-learning agents in a Cournot oligopoly model. <i>Journal of Economic Dynamics and Control</i> , 2008 , 32, 3275-3293	3.1	48
13	A Theoretical Analysis of Cooperative Behavior in Multi-agent Q-learning 2007 ,		4
12	Some comments on the question whether co-occurrence data should be normalized. <i>Journal of the Association for Information Science and Technology</i> , 2007 , 58, 1701-1703		12
11	BIBLIOMETRIC MAPPING OF THE COMPUTATIONAL INTELLIGENCE FIELD. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2007 , 15, 625-645	0.8	128
10	VOS: A New Method for Visualizing Similarities Between Objects. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2007 , 299-306	0.2	129
9	Visualizing the computational intelligence field [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2006 , 1, 6-10	5.6	38
8	Visualizing the WCCI 2006 Knowledge Domain 2006 ,		4
7	Visualizing the Computational Intelligence Field. <i>IEEE Computational Intelligence Magazine</i> , 2006 , 1, 6-10	5.6	15
6	A Novel Algorithm for Visualizing Concept Associations		10

5	Maximum likelihood parameter estimation in probabilistic fuzzy classifiers		10
4	A principled methodology for comparing relatedness measures for clustering publications. <i>Quantitative Science Studies</i> ,1-23	3.8	14
3	The relationship between publication volume of biomedical research and burden of disease		3
2	A scientometric overview of COVID-19		14
1	Innovations in peer review in scholarly publishing: a meta-summary. <i>Wellcome Open Research</i> ,7, 82	4.8	1