Ludo Waltman

List of Publications by Year
in descending order

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93	25,684	53794	51608
papers	citations	45 h-index	86 g-index

105	105	105	18927
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Software survey: VOSviewer, a computer program for bibliometric mapping. Scientometrics, 2010, 84, 523-538.	3.0	8,777
2	From Louvain to Leiden: guaranteeing well-connected communities. Scientific Reports, 2019, 9, 5233.	3.3	2,249
3	Bibliometrics: The Leiden Manifesto for research metrics. Nature, 2015, 520, 429-431.	27.8	1,465
4	A unified approach to mapping and clustering of bibliometric networks. Journal of Informetrics, 2010, 4, 629-635.	2.9	1,238
5	Citation-based clustering of publications using CitNetExplorer and VOSviewer. Scientometrics, 2017, 111, 1053-1070.	3.0	1,133
6	Visualizing Bibliometric Networks. , 2014, , 285-320.		1,053
7	A review of the literature on citation impact indicators. Journal of Informetrics, 2016, 10, 365-391.	2.9	743
8	A smart local moving algorithm for large-scale modularity-based community detection. European Physical Journal B, 2013, 86, 1.	1.5	738
9	Science of science. Science, 2018, 359, .	12.6	701
10	Constructing bibliometric networks: A comparison between full and fractional counting. Journal of Informetrics, 2016, 10, 1178-1195.	2.9	664
11	How to normalize cooccurrence data? An analysis of some wellâ€known similarity measures. Journal of the Association for Information Science and Technology, 2009, 60, 1635-1651.	2.6	530
12	A comparison of two techniques for bibliometric mapping: Multidimensional scaling and VOS. Journal of the Association for Information Science and Technology, 2010, 61, 2405-2416.	2.6	496
13	CitNetExplorer: A new software tool for analyzing and visualizing citation networks. Journal of Informetrics, 2014, 8, 802-823.	2.9	421
14	A new methodology for constructing a publicationâ€level classification system of science. Journal of the Association for Information Science and Technology, 2012, 63, 2378-2392.	2.6	391
15	Towards a new crown indicator: Some theoretical considerations. Journal of Informetrics, 2011, 5, 37-47.	2.9	290
16	The Leiden ranking 2011/2012: Data collection, indicators, and interpretation. Journal of the Association for Information Science and Technology, 2012, 63, 2419-2432.	2.6	284
17	Large-scale comparison of bibliographic data sources: Scopus, Web of Science, Dimensions, Crossref, and Microsoft Academic. Quantitative Science Studies, 2021, 2, 20-41.	3.3	252
18	The inconsistency of the hâ€index. Journal of the Association for Information Science and Technology, 2012, 63, 406-415.	2.6	244

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19	VOS: A New Method for Visualizing Similarities Between Objects. Studies in Classification, Data Analysis, and Knowledge Organization, 2007, , 299-306.	0.2	242
20	Large-scale analysis of the accuracy of the journal classification systems of Web of Science and Scopus. Journal of Informetrics, 2016, 10, 347-364.	2.9	219
21	Automatic term identification for bibliometric mapping. Scientometrics, 2010, 82, 581-596.	3.0	191
22	BIBLIOMETRIC MAPPING OF THE COMPUTATIONAL INTELLIGENCE FIELD. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2007, 15, 625-645.	1.9	189
23	Citation Analysis May Severely Underestimate the Impact of Clinical Research as Compared to Basic Research. PLoS ONE, 2013, 8, e62395.	2.5	176
24	Towards a new crown indicator: an empirical analysis. Scientometrics, 2011, 87, 467-481.	3.0	175
25	Field-normalized citation impact indicators and the choice of an appropriate counting method. Journal of Informetrics, 2015, 9, 872-894.	2.9	171
26	An empirical analysis of the use of alphabetical authorship in scientific publishing. Journal of Informetrics, 2012, 6, 700-711.	2.9	142
27	Some modifications to the SNIP journal impact indicator. Journal of Informetrics, 2013, 7, 272-285.	2.9	141
28	Generalizing the h- and g-indices. Journal of Informetrics, 2008, 2, 263-271.	2.9	122
29	On the calculation of percentileâ€based bibliometric indicators. Journal of the Association for Information Science and Technology, 2013, 64, 372-379.	2.6	111
30	<scp>F</scp>1000 Recommendations as a Potential New Data Source for Research Evaluation: A Comparison With Citations. Journal of the Association for Information Science and Technology, 2014, 65, 433-445.	2.9	101
31	Source normalized indicators of citation impact: an overview of different approaches and an empirical comparison. Scientometrics, 2013, 96, 699-716.	3.0	96
32	A systematic empirical comparison of different approaches for normalizing citation impact indicators. Journal of Informetrics, 2013, 7, 833-849.	2.9	95
33	Characterizing in-text citations in scientific articles: A large-scale analysis. Journal of Informetrics, 2018, 12, 59-73.	2.9	89
34	Clustering Scientific Publications Based on Citation Relations: A Systematic Comparison of Different Methods. PLoS ONE, 2016, 11, e0154404.	2.5	89
35	Field-normalized citation impact indicators using algorithmically constructed classification systems of science. Journal of Informetrics, 2015, 9, 102-117.	2.9	88
36	Mapping patient safety: a large-scale literature review using bibliometric visualisation techniques. BMJ Open, 2014, 4, e004468.	1.9	86

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37	Predicting the long-term citation impact of recent publications. Journal of Informetrics, 2015, 9, 642-657.	2.9	85
38	-learning agents in a Cournot oligopoly model. Journal of Economic Dynamics and Control, 2008, 32, 3275-3293.	1.6	83
39	Rivals for the crown: Reply to Opthof and Leydesdorff. Journal of Informetrics, 2010, 4, 431-435.	2.9	79
40	Globalisation of science in kilometres. Journal of Informetrics, 2011, 5, 574-582.	2.9	69
41	A Large-Scale Analysis of Impact Factor Biased Journal Self-Citations. PLoS ONE, 2016, 11, e0161021.	2.5	63
42	Visualizing the computational intelligence field [Application Notes]. IEEE Computational Intelligence Magazine, 2006, 1, 6-10.	3.2	61
43	The detection of â€œhot regionsâ€•in the geography of scienceâ€”A visualization approach by using density maps. Journal of Informetrics, 2011, 5, 547-553.	2.9	61
44	Universality of citation distributions revisited. Journal of the Association for Information Science and Technology, 2012, 63, 72-77.	2.6	61
45	Counting publications and citations: Is more always better?. Journal of Informetrics, 2013, 7, 635-641.	2.9	55
46	A scientometric overview of CORD-19. PLoS ONE, 2021, 16, e0244839.	2.5	51
47	A recursive field-normalized bibliometric performance indicator: an application to the field of library and information science. Scientometrics, 2011, 89, 301-314.	3.0	50
48	Appropriate similarity measures for author coâ€citation analysis. Journal of the Association for Information Science and Technology, 2008, 59, 1653-1661.	2.6	47
49	Rethinking impact factors: better ways to judge a journal. Nature, 2019, 569, 621-623.	27.8	46
50	Systematic analysis of agreement between metrics and peer review in the UK REF. Palgrave Communications, 2019, 5, .	4.7	43
51	The relation between Eigenfactor, audience factor, and influence weight. Journal of the Association for Information Science and Technology, 2010, 61, 1476-1486.	2.6	30
52	PageRank-Related Methods for Analyzing Citation Networks. , 2014, , 83-100.		30
53	A principled methodology for comparing relatedness measures for clustering publications. Quantitative Science Studies, 0, , 1-23.	3.3	30
54	Visualizing the Computational Intelligence Field. IEEE Computational Intelligence Magazine, 2006, 1, 6-10.	3.2	28

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55	A large-scale bibliometric analysis of global climate change research between 2001 and 2018. Climatic Change, 2022, 170, 1.	3.6	28
56	The correlation between citation-based and expert-based assessments of publication channels: SNIP and SJR vs. Norwegian quality assessments. Journal of Informetrics, 2014, 8, 985-996.	2.9	26
57	Field Normalization of Scientometric Indicators. Springer Handbooks, 2019, , 281-300.	0.6	26
58	Maximum likelihood parameter estimation in probabilistic fuzzy classifiers. , 0, , .		24
59	A multidimensional framework for characterizing the citation impact of scientific publications. Quantitative Science Studies, 2021, 2, 155-183.	3.3	22
60	Investigating disagreement in the scientific literature. ELife, 2021, 10, .	6.0	22
61	Economic modeling using evolutionary algorithms: the effect of a binary encoding of strategies. Journal of Evolutionary Economics, 2011, 21, 737-756.	1.7	21
62	Relations between the shape of a size-frequency distribution and the shape of a rank-frequency distribution. Information Processing and Management, 2011, 47, 238-245.	8.6	20
63	The Closer the Better: Similarity of Publication Pairs at Different Cocitation Levels. Journal of the Association for Information Science and Technology, 2018, 69, 600-609.	2.9	20
64	On the correlation between bibliometric indicators and peer review: reply to Opthof and Leydesdorff. Scientometrics, 2011, 88, 1017-1022.	3.0	19
65	Some comments on Egghe's derivation of the impact factor distribution. Journal of Informetrics, 2009, 3, 363-366.	2.9	18
66	The elephant in the room: The problem of quantifying productivity in evaluative scientometrics. Journal of Informetrics, 2016, 10, 671-674.	2.9	18
67	Use of the journal impact factor for assessing individual articles: Statistically flawed or not?. F1000Research, 2020, 9, 366.	1.6	17
68	Exploring the Relationship between the Engineering and Physical Sciences and the Health and Life Sciences by Advanced Bibliometric Methods. PLoS ONE, 2014, 9, e111530.	2.5	17
69	Use of the journal impact factor for assessing individual articles need not be statistically wrong. F1000Research, 2020, 9, 366.	1.6	16
70	Special issue on bibliographic data sources. Quantitative Science Studies, 2020, 1, 360-362.	3.3	15
71	A Novel Algorithm for Visualizing Concept Associations. , 0, , .		14
72	Topic identification challenge. Scientometrics, 2017, 111, 1223-1224.	3.0	14

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73	Some comments on the question whether coâ€occurrence data should be normalized. Journal of the Association for Information Science and Technology, 2007, 58, 1701-1703.	2.6	13
74	Conceptual difficulties in the use of statistical inference in citation analysis. Journal of Informetrics, 2016, 10, 1249-1252.	2.9	12
75	Collaborations span 1,553 kilometres. Nature, 2011, 473, 154-154.	27.8	10
76	A Longitudinal Analysis of Publications on Maternal Mortality. Paediatric and Perinatal Epidemiology, 2015, 29, 481-489.	1.7	10
77	Intermediacy of publications. Royal Society Open Science, 2020, 7, 190207.	2.4	9
78	Robust Evolutionary Algorithm Design for Socio-Economic Simulation: Some Comments. Computational Economics, 2009, 33, 103-105.	2.6	8
79	Some Limitations of theHIndex: A Commentary on Ruscio and Colleagues' Analysis of Bibliometric Indices. Measurement, 2012, 10, 172-175.	0.2	8
80	Opening science: The rebirth of a scholarly journal. Quantitative Science Studies, 2020, 1, 1-3.	3.3	6
81	Visualizing the WCCI 2006 Knowledge Domain. , 2006, , .		5
82	Some comments on the journal weighted impact factor proposed by Habibzadeh and Yadollahie. Journal of Informetrics, 2008, 2, 369-372.	2.9	5
83	Algorithmic labeling in hierarchical classifications of publications: Evaluation of bibliographic fields and term weighting approaches. Journal of the Association for Information Science and Technology, 2021, 72, 853-869.	2.9	5
84	Analyzing the activities of visitors of the Leiden Ranking website. Journal of Data and Information Science, 2018, 3, 81-98.	1.1	5
85	A Theoretical Analysis of Cooperative Behavior in Multi-agent Q-learning. , 2007, , .		4
86	An Evolutionary Model of Price Competition Among Spatially Distributed Firms. Computational Economics, 2013, 42, 373-391.	2.6	2
87	Improving the evaluation of worldwide biomedical research output: classification method and standardised bibliometric indicators by disease. BMJ Open, 2018, 8, e020818.	1.9	2
88	Innovations in peer review in scholarly publishing: a meta-summary. Wellcome Open Research, 0, 7, 82.	1.8	2
89	A mathematical analysis of the long-run behavior of genetic algorithms for social modeling. Soft Computing, 2012, 16, 1071-1089.	3.6	1
90	Is the Nature Index at odds with DORA?. Nature, 2017, 545, 412-412.	27.8	1

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91	Science of science. Bibliosfera, 2021, , 25-42.	0.3	1
92	Open Abstracts: Where are we?. , 0, , .		1
93	On the proper understanding of the limiting behavior of generalizations of the h- and g-indices. Journal of Informetrics, 2009, 3, 369-370.	2.9	0