

Ludo Waltman

List of Publications by Year in descending order

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93
papers

25,684
citations

53660

45
h-index

51492

86
g-index

105
all docs

105
docs citations

105
times ranked

18927
citing authors

#	ARTICLE	IF	CITATIONS
1	Software survey: VOSviewer, a computer program for bibliometric mapping. <i>Scientometrics</i> , 2010, 84, 523-538.	1.6	8,777
2	From Louvain to Leiden: guaranteeing well-connected communities. <i>Scientific Reports</i> , 2019, 9, 5233.	1.6	2,249
3	Bibliometrics: The Leiden Manifesto for research metrics. <i>Nature</i> , 2015, 520, 429-431.	13.7	1,465
4	A unified approach to mapping and clustering of bibliometric networks. <i>Journal of Informetrics</i> , 2010, 4, 629-635.	1.4	1,238
5	Citation-based clustering of publications using CitNetExplorer and VOSviewer. <i>Scientometrics</i> , 2017, 111, 1053-1070.	1.6	1,133
6	Visualizing Bibliometric Networks. , 2014, , 285-320.		1,053
7	A review of the literature on citation impact indicators. <i>Journal of Informetrics</i> , 2016, 10, 365-391.	1.4	743
8	A smart local moving algorithm for large-scale modularity-based community detection. <i>European Physical Journal B</i> , 2013, 86, 1.	0.6	738
9	Science of science. <i>Science</i> , 2018, 359, .	6.0	701
10	Constructing bibliometric networks: A comparison between full and fractional counting. <i>Journal of Informetrics</i> , 2016, 10, 1178-1195.	1.4	664
11	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.	2.6	530
12	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.	2.6	496
13	CitNetExplorer: A new software tool for analyzing and visualizing citation networks. <i>Journal of Informetrics</i> , 2014, 8, 802-823.	1.4	421
14	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.	2.6	391
15	Towards a new crown indicator: Some theoretical considerations. <i>Journal of Informetrics</i> , 2011, 5, 37-47.	1.4	290
16	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.	2.6	284
17	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.	1.6	252
18	The inconsistency of the h-index. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 406-415.	2.6	244

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19	VOS: A New Method for Visualizing Similarities Between Objects. <i>Studies in Classification, Data Analysis, and Knowledge Organization</i> , 2007, , 299-306.	0.1	242
20	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.	1.4	219
21	Automatic term identification for bibliometric mapping. <i>Scientometrics</i> , 2010, 82, 581-596.	1.6	191
22	BIBLIOMETRIC MAPPING OF THE COMPUTATIONAL INTELLIGENCE FIELD. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2007, 15, 625-645.	0.9	189
23	Citation Analysis May Severely Underestimate the Impact of Clinical Research as Compared to Basic Research. <i>PLoS ONE</i> , 2013, 8, e62395.	1.1	176
24	Towards a new crown indicator: an empirical analysis. <i>Scientometrics</i> , 2011, 87, 467-481.	1.6	175
25	Field-normalized citation impact indicators and the choice of an appropriate counting method. <i>Journal of Informetrics</i> , 2015, 9, 872-894.	1.4	171
26	An empirical analysis of the use of alphabetical authorship in scientific publishing. <i>Journal of Informetrics</i> , 2012, 6, 700-711.	1.4	142
27	Some modifications to the SNIP journal impact indicator. <i>Journal of Informetrics</i> , 2013, 7, 272-285.	1.4	141
28	Generalizing the h- and g-indices. <i>Journal of Informetrics</i> , 2008, 2, 263-271.	1.4	122
29	On the calculation of percentile-based bibliometric indicators. <i>Journal of the Association for Information Science and Technology</i> , 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. <i>Journal of the Association for Information Science and Technology</i> , 2014, 65, 433-445.	1.5	101
31	Source normalized indicators of citation impact: an overview of different approaches and an empirical comparison. <i>Scientometrics</i> , 2013, 96, 699-716.	1.6	96
32	A systematic empirical comparison of different approaches for normalizing citation impact indicators. <i>Journal of Informetrics</i> , 2013, 7, 833-849.	1.4	95
33	Characterizing in-text citations in scientific articles: A large-scale analysis. <i>Journal of Informetrics</i> , 2018, 12, 59-73.	1.4	89
34	Clustering Scientific Publications Based on Citation Relations: A Systematic Comparison of Different Methods. <i>PLoS ONE</i> , 2016, 11, e0154404.	1.1	89
35	Field-normalized citation impact indicators using algorithmically constructed classification systems of science. <i>Journal of Informetrics</i> , 2015, 9, 102-117.	1.4	88
36	Mapping patient safety: a large-scale literature review using bibliometric visualisation techniques. <i>BMJ Open</i> , 2014, 4, e004468.	0.8	86

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37	Predicting the long-term citation impact of recent publications. <i>Journal of Informetrics</i> , 2015, 9, 642-657.	1.4	85
38	-learning agents in a Cournot oligopoly model. <i>Journal of Economic Dynamics and Control</i> , 2008, 32, 3275-3293.	0.9	83
39	Rivals for the crown: Reply to Opthof and Leydesdorff. <i>Journal of Informetrics</i> , 2010, 4, 431-435.	1.4	79
40	Globalisation of science in kilometres. <i>Journal of Informetrics</i> , 2011, 5, 574-582.	1.4	69
41	A Large-Scale Analysis of Impact Factor Biased Journal Self-Citations. <i>PLoS ONE</i> , 2016, 11, e0161021.	1.1	63
42	Visualizing the computational intelligence field [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2006, 1, 6-10.	3.4	61
43	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.	1.4	61
44	Universality of citation distributions revisited. <i>Journal of the Association for Information Science and Technology</i> , 2012, 63, 72-77.	2.6	61
45	Counting publications and citations: Is more always better?. <i>Journal of Informetrics</i> , 2013, 7, 635-641.	1.4	55
46	A scientometric overview of COVID-19. <i>PLoS ONE</i> , 2021, 16, e0244839.	1.1	51
47	A recursive field-normalized bibliometric performance indicator: an application to the field of library and information science. <i>Scientometrics</i> , 2011, 89, 301-314.	1.6	50
48	Appropriate similarity measures for author co-citation analysis. <i>Journal of the Association for Information Science and Technology</i> , 2008, 59, 1653-1661.	2.6	47
49	Rethinking impact factors: better ways to judge a journal. <i>Nature</i> , 2019, 569, 621-623.	13.7	46
50	Systematic analysis of agreement between metrics and peer review in the UK REF. <i>Palgrave Communications</i> , 2019, 5, .	4.7	43
51	The relation between Eigenfactor, audience factor, and influence weight. <i>Journal of the Association for Information Science and Technology</i> , 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. <i>Quantitative Science Studies</i> , 0, , 1-23.	1.6	30
54	Visualizing the Computational Intelligence Field. <i>IEEE Computational Intelligence Magazine</i> , 2006, 1, 6-10.	3.4	28

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55	A large-scale bibliometric analysis of global climate change research between 2001 and 2018. <i>Climatic Change</i> , 2022, 170, 1.	1.7	28
56	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.	1.4	26
57	Field Normalization of Scientometric Indicators. <i>Springer Handbooks</i> , 2019, , 281-300.	0.3	26
58	Maximum likelihood parameter estimation in probabilistic fuzzy classifiers. , 0, , .		24
59	A multidimensional framework for characterizing the citation impact of scientific publications. <i>Quantitative Science Studies</i> , 2021, 2, 155-183.	1.6	22
60	Investigating disagreement in the scientific literature. <i>ELife</i> , 2021, 10, .	2.8	22
61	Economic modeling using evolutionary algorithms: the effect of a binary encoding of strategies. <i>Journal of Evolutionary Economics</i> , 2011, 21, 737-756.	0.8	21
62	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.	5.4	20
63	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.	1.5	20
64	On the correlation between bibliometric indicators and peer review: reply to Opthof and Leydesdorff. <i>Scientometrics</i> , 2011, 88, 1017-1022.	1.6	19
65	Some comments on Egghe's derivation of the impact factor distribution. <i>Journal of Informetrics</i> , 2009, 3, 363-366.	1.4	18
66	The elephant in the room: The problem of quantifying productivity in evaluative scientometrics. <i>Journal of Informetrics</i> , 2016, 10, 671-674.	1.4	18
67	Use of the journal impact factor for assessing individual articles: Statistically flawed or not?. <i>F1000Research</i> , 2020, 9, 366.	0.8	17
68	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.	1.1	17
69	Use of the journal impact factor for assessing individual articles need not be statistically wrong. <i>F1000Research</i> , 2020, 9, 366.	0.8	16
70	Special issue on bibliographic data sources. <i>Quantitative Science Studies</i> , 2020, 1, 360-362.	1.6	15
71	A Novel Algorithm for Visualizing Concept Associations. , 0, , .		14
72	Topic identification challenge. <i>Scientometrics</i> , 2017, 111, 1223-1224.	1.6	14

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73	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.	2.6	13
74	Conceptual difficulties in the use of statistical inference in citation analysis. <i>Journal of Informetrics</i> , 2016, 10, 1249-1252.	1.4	12
75	Collaborations span 1,553 kilometres. <i>Nature</i> , 2011, 473, 154-154.	13.7	10
76	A Longitudinal Analysis of Publications on Maternal Mortality. <i>Paediatric and Perinatal Epidemiology</i> , 2015, 29, 481-489.	0.8	10
77	Intermediacy of publications. <i>Royal Society Open Science</i> , 2020, 7, 190207.	1.1	9
78	Robust Evolutionary Algorithm Design for Socio-Economic Simulation: Some Comments. <i>Computational Economics</i> , 2009, 33, 103-105.	1.5	8
79	Some Limitations of the HIndex: A Commentary on Ruscio and Colleagues' Analysis of Bibliometric Indices. <i>Measurement</i> , 2012, 10, 172-175.	0.1	8
80	Opening science: The rebirth of a scholarly journal. <i>Quantitative Science Studies</i> , 2020, 1, 1-3.	1.6	6
81	Visualizing the WCCI 2006 Knowledge Domain. , 2006, , .		5
82	Some comments on the journal weighted impact factor proposed by Habibzadeh and Yadollahie. <i>Journal of Informetrics</i> , 2008, 2, 369-372.	1.4	5
83	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.	1.5	5
84	Analyzing the activities of visitors of the Leiden Ranking website. <i>Journal of Data and Information Science</i> , 2018, 3, 81-98.	0.5	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. <i>Computational Economics</i> , 2013, 42, 373-391.	1.5	2
87	Improving the evaluation of worldwide biomedical research output: classification method and standardised bibliometric indicators by disease. <i>BMJ Open</i> , 2018, 8, e020818.	0.8	2
88	Innovations in peer review in scholarly publishing: a meta-summary. <i>Wellcome Open Research</i> , 0, 7, 82.	0.9	2
89	A mathematical analysis of the long-run behavior of genetic algorithms for social modeling. <i>Soft Computing</i> , 2012, 16, 1071-1089.	2.1	1
90	Is the Nature Index at odds with DORA?. <i>Nature</i> , 2017, 545, 412-412.	13.7	1

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91	Science of science. <i>Bibliosfera</i> , 2021, , 25-42.	0.0	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. <i>Journal of Informetrics</i> , 2009, 3, 369-370.	1.4	0