

Kevin W Boyack

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.

79
papers

4,951
citations

35
h-index

70
g-index

85
ext. papers

6,056
ext. citations

6
avg, IF

6.26
L-index

#	Paper	IF	Citations
79	Visualizing knowledge domains. <i>Annual Review of Information Science & Technology</i> , 2005 , 37, 179-255		640
78	Co-citation analysis, bibliographic coupling, and direct citation: Which citation approach represents the research front most accurately?. <i>Journal of the Association for Information Science and Technology</i> , 2010 , 61, 2389-2404		556
77	Mapping the backbone of science. <i>Scientometrics</i> , 2005 , 64, 351-374	3	520
76	Approaches to understanding and measuring interdisciplinary scientific research (IDR): A review of the literature. <i>Journal of Informetrics</i> , 2011 , 5, 14-26	3.1	382
75	Identifying emerging topics in science and technology. <i>Research Policy</i> , 2014 , 43, 1450-1467	7.5	200
74	Clustering more than two million biomedical publications: comparing the accuracies of nine text-based similarity approaches. <i>PLoS ONE</i> , 2011 , 6, e18029	3.7	163
73	Toward a consensus map of science. <i>Journal of the Association for Information Science and Technology</i> , 2009 , 60, 455-476		155
72	Which Type of Citation Analysis Generates the Most Accurate Taxonomy of Scientific and Technical Knowledge?. <i>Journal of the Association for Information Science and Technology</i> , 2017 , 68, 984-998	2.7	148
71	Design and update of a classification system: the UCSD map of science. <i>PLoS ONE</i> , 2012 , 7, e39464	3.7	130
70	Reproducible research practices, transparency, and open access data in the biomedical literature, 2015-2017. <i>PLoS Biology</i> , 2018 , 16, e2006930	9.7	109
69	Identifying a better measure of relatedness for mapping science. <i>Journal of the Association for Information Science and Technology</i> , 2006 , 57, 251-263		87
68	OpenOrd: an open-source toolbox for large graph layout 2011 ,		85
67	Domain visualization using VxInsight for science and technology management. <i>Journal of the Association for Information Science and Technology</i> , 2002 , 53, 764-774		84
66	A standardized citation metrics author database annotated for scientific field. <i>PLoS Biology</i> , 2019 , 17, e3000384	9.7	80
65	Improving the accuracy of co-citation clustering using full text. <i>Journal of the Association for Information Science and Technology</i> , 2013 , 64, 1759-1767		79
64	Creation of a highly detailed, dynamic, global model and map of science. <i>Journal of the Association for Information Science and Technology</i> , 2014 , 65, 670-685	2.7	77
63	Mapping knowledge domains: characterizing PNAS. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101 Suppl 1, 5192-9	11.5	75

62	Indicator-assisted evaluation and funding of research: Visualizing the influence of grants on the number and citation counts of research papers. <i>Journal of the Association for Information Science and Technology</i> , 2003 , 54, 447-461		75
61	Estimates of the continuously publishing core in the scientific workforce. <i>PLoS ONE</i> , 2014 , 9, e101698	3.7	69
60	Mapping the structure and evolution of chemistry research. <i>Scientometrics</i> , 2009 , 79, 45-60	3	68
59	Bibliometrics: Is your most cited work your best?. <i>Nature</i> , 2014 , 514, 561-2	50.4	67
58	Characterizing in-text citations in scientific articles: A large-scale analysis. <i>Journal of Informetrics</i> , 2018 , 12, 59-73	3.1	62
57	Using detailed maps of science to identify potential collaborations. <i>Scientometrics</i> , 2009 , 79, 27-44	3	58
56	Quantitative evaluation of large maps of science. <i>Scientometrics</i> , 2006 , 68, 475-499	3	53
55	Using global mapping to create more accurate document-level maps of research fields. <i>Journal of the Association for Information Science and Technology</i> , 2011 , 62, 1-18		51
54	Measuring science-technology interaction using rare inventor-author names. <i>Journal of Informetrics</i> , 2008 , 2, 173-182	3.1	48
53	Metrics associated with NIH funding: a high-level view. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2011 , 18, 423-31	8.6	44
52	Research portfolio analysis and topic prominence. <i>Journal of Informetrics</i> , 2017 , 11, 1158-1174	3.1	42
51	Comparison of topic extraction approaches and their results. <i>Scientometrics</i> , 2017 , 111, 1169-1221	3	40
50	Multiple Citation Indicators and Their Composite across Scientific Disciplines. <i>PLoS Biology</i> , 2016 , 14, e1002501	9.7	40
49	Dynamics of co-authorship and productivity across different fields of scientific research. <i>PLoS ONE</i> , 2018 , 13, e0189742	3.7	39
48	Characterizing the emergence of two nanotechnology topics using a contemporaneous global micro-model of science. <i>Journal of Engineering and Technology Management - JET-M</i> , 2014 , 32, 147-159	3.7	37
47	Updated science-wide author databases of standardized citation indicators. <i>PLoS Biology</i> , 2020 , 18, e3000918	9.7	37
46	Citation Metrics: A Primer on How (Not) to Normalize. <i>PLoS Biology</i> , 2016 , 14, e1002542	9.7	37
45	Toward an objective, reliable and accurate method for measuring research leadership. <i>Scientometrics</i> , 2010 , 82, 539-553	3	35

44	Including cited non-source items in a large-scale map of science: What difference does it make?. <i>Journal of Informetrics</i> , 2014 , 8, 569-580	3.1	34
43	A list of highly influential biomedical researchers, 1996-2011. <i>European Journal of Clinical Investigation</i> , 2013 , 43, 1339-65	4.6	28
42	Classification of individual articles from all of science by research level. <i>Journal of Informetrics</i> , 2014 , 8, 1-12	3.1	26
41	Thought leadership: A new indicator for national and institutional comparison. <i>Scientometrics</i> , 2008 , 75, 239-250	3	20
40	Comparative analysis of multiple genome-scale data sets. <i>Genome Research</i> , 2002 , 12, 1564-73	9.7	19
39	Assessment of transparency indicators across the biomedical literature: How open is open?. <i>PLoS Biology</i> , 2021 , 19, e3001107	9.7	19
38	Investigating the effect of global data on topic detection. <i>Scientometrics</i> , 2017 , 111, 999-1015	3	16
37	Mapping science introduction: Past, present and future 2015 , 41, 12-16		16
36	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
35	The Research Focus of Nations: Economic vs. Altruistic Motivations. <i>PLoS ONE</i> , 2017 , 12, e0169383	3.7	14
34	A principled methodology for comparing relatedness measures for clustering publications. <i>Quantitative Science Studies</i> , 1-23	3.8	14
33	Thesaurus-based methods for mapping contents of publication sets. <i>Scientometrics</i> , 2017 , 111, 1141-1155		12
32	Topic identification challenge. <i>Scientometrics</i> , 2017 , 111, 1223-1224	3	11
31	An Introduction to Modeling Science: Basic Model Types, Key Definitions, and a General Framework for the Comparison of Process Models. <i>Understanding Complex Systems</i> , 2012 , 3-22	0.4	11
30	Galileo's stream: A framework for understanding knowledge production. <i>Research Policy</i> , 2008 , 37, 330-352		11
29	Toward predicting research proposal success. <i>Scientometrics</i> , 2018 , 114, 449-461	3	11
28	The rapid, massive growth of COVID-19 authors in the scientific literature. <i>Royal Society Open Science</i> , 2021 , 8, 210389	3.3	11
27	Citations and certainty: a new interpretation of citation counts. <i>Scientometrics</i> , 2019 , 118, 1079-1092	3	10

26	Mapping altruism. <i>Journal of Informetrics</i> , 2014 , 8, 431-447	3.1	10
25	A novel approach to predicting exceptional growth in research. <i>PLoS ONE</i> , 2020 , 15, e0239177	3.7	9
24	Investigating disagreement in the scientific literature.. <i>ELife</i> , 2021 , 10,	8.9	8
23	A detailed open access model of the PubMed literature. <i>Scientific Data</i> , 2020 , 7, 408	8.2	7
22	Citation metrics for appraising scientists: misuse, gaming and proper use. <i>Medical Journal of Australia</i> , 2020 , 212, 247-249.e1	4	7
21	The rapid, massive growth of COVID-19 authors in the scientific literature		7
20	Dual-stokes cars system for simulataneous measurement of temperature and multiple species in turbulent flames. <i>Proceedings of the Combustion Institute</i> , 1991 , 23, 1893-1899		6
19	Work honored by Nobel prizes clusters heavily in a few scientific fields. <i>PLoS ONE</i> , 2020 , 15, e0234612	3.7	6
18	Creation and Analysis of Large-Scale Bibliometric Networks. <i>Springer Handbooks</i> , 2019 , 187-212	1.3	5
17	Information Visualization, Human-Computer Interaction, and Cognitive Psychology: Domain Visualizations. <i>Lecture Notes in Computer Science</i> , 2002 , 145-158	0.9	5
16	Characterization of the peer review network at the Center for Scientific Review, National Institutes of Health. <i>PLoS ONE</i> , 2014 , 9, e104244	3.7	4
15	A recursive process for mapping and clustering technology literatures: case study in solid-state lighting. <i>International Journal of Technology Transfer and Commercialisation</i> , 2009 , 8, 51	0.5	4
14	A Call to Researchers. <i>D-Lib Magazine</i> , 2001 , 7,		4
13	A comparison of large-scale science models based on textual, direct citation and hybrid relatedness. <i>Quantitative Science Studies</i> , 2020 , 1, 1570-1585	3.8	3
12	Prosperity Game to Teach Global Competitiveness to University Students. <i>Journal of Teaching in International Business</i> , 1997 , 8, 5-19	0.9	2
11	Mapping, illuminating, and interacting with science 2007 ,		2
10	Exploring the relationships between a map of altruism and a map of science 2015 , 41, 30-33		1
9	Evaluation of Laboratory Directed Research and Development investment areas at Sandia. <i>Technological Forecasting and Social Change</i> , 2005 , 72, 1122-1136	9.5	1

8 Assessment of transparency indicators across the biomedical literature: how open is open? 1

7

6 AI Research Funding Portfolios and Extreme Growth. *Frontiers in Research Metrics and Analytics*, 2021, 6, 630124 1.3 0

5 Robust Methods for Microarray Analysis 99-130

4 A novel approach to predicting exceptional growth in research 2020, 15, e0239177

3 A novel approach to predicting exceptional growth in research 2020, 15, e0239177

2 A novel approach to predicting exceptional growth in research 2020, 15, e0239177

1 A novel approach to predicting exceptional growth in research 2020, 15, e0239177