

Kevin W Boyack

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.

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 | Assessment of transparency indicators across the biomedical literature: How open is open?. <i>PLoS Biology</i> , 2021 , 19, e3001107 | 9.7 | 19 |
| 78 | AI Research Funding Portfolios and Extreme Growth. <i>Frontiers in Research Metrics and Analytics</i> , 2021 , 6, 630124 | 1.3 | 0 |
| 77 | The rapid, massive growth of COVID-19 authors in the scientific literature. <i>Royal Society Open Science</i> , 2021 , 8, 210389 | 3.3 | 11 |
| 76 | Investigating disagreement in the scientific literature.. <i>ELife</i> , 2021 , 10, | 8.9 | 8 |
| 75 | A detailed open access model of the PubMed literature. <i>Scientific Data</i> , 2020 , 7, 408 | 8.2 | 7 |
| 74 | Citation metrics for appraising scientists: misuse, gaming and proper use. <i>Medical Journal of Australia</i> , 2020 , 212, 247-249.e1 | 4 | 7 |
| 73 | Updated science-wide author databases of standardized citation indicators. <i>PLoS Biology</i> , 2020 , 18, e3000918 | 9.7 | 37 |
| 72 | Work honored by Nobel prizes clusters heavily in a few scientific fields. <i>PLoS ONE</i> , 2020 , 15, e0234612 | 3.7 | 6 |
| 71 | A novel approach to predicting exceptional growth in research. <i>PLoS ONE</i> , 2020 , 15, e0239177 | 3.7 | 9 |
| 70 | 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 |
| 69 | A novel approach to predicting exceptional growth in research 2020 , 15, e0239177 | | |
| 68 | A novel approach to predicting exceptional growth in research 2020 , 15, e0239177 | | |
| 67 | A novel approach to predicting exceptional growth in research 2020 , 15, e0239177 | | |
| 66 | A novel approach to predicting exceptional growth in research 2020 , 15, e0239177 | | |
| 65 | Citations and certainty: a new interpretation of citation counts. <i>Scientometrics</i> , 2019 , 118, 1079-1092 | 3 | 10 |
| 64 | A standardized citation metrics author database annotated for scientific field. <i>PLoS Biology</i> , 2019 , 17, e3000384 | 9.7 | 80 |
| 63 | Creation and Analysis of Large-Scale Bibliometric Networks. <i>Springer Handbooks</i> , 2019 , 187-212 | 1.3 | 5 |

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| 61 | Dynamics of co-authorship and productivity across different fields of scientific research. <i>PLoS ONE</i> , 2018 , 13, e0189742 | 3.7 | 39 |
| 60 | Characterizing in-text citations in scientific articles: A large-scale analysis. <i>Journal of Informetrics</i> , 2018 , 12, 59-73 | 3.1 | 62 |
| 59 | Toward predicting research proposal success. <i>Scientometrics</i> , 2018 , 114, 449-461 | 3 | 11 |
| 58 | 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 |
| 57 | Reproducible research practices, transparency, and open access data in the biomedical literature, 2015-2017. <i>PLoS Biology</i> , 2018 , 16, e2006930 | 9.7 | 109 |
| 56 | Comparison of topic extraction approaches and their results. <i>Scientometrics</i> , 2017 , 111, 1169-1221 | 3 | 40 |
| 55 | Investigating the effect of global data on topic detection. <i>Scientometrics</i> , 2017 , 111, 999-1015 | 3 | 16 |
| 54 | Thesaurus-based methods for mapping contents of publication sets. <i>Scientometrics</i> , 2017 , 111, 1141-1155 | 3 | 12 |
| 53 | Topic identification challenge. <i>Scientometrics</i> , 2017 , 111, 1223-1224 | 3 | 11 |
| 52 | Research portfolio analysis and topic prominence. <i>Journal of Informetrics</i> , 2017 , 11, 1158-1174 | 3.1 | 42 |
| 51 | The Research Focus of Nations: Economic vs. Altruistic Motivations. <i>PLoS ONE</i> , 2017 , 12, e0169383 | 3.7 | 14 |
| 50 | 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 |
| 49 | Citation Metrics: A Primer on How (Not) to Normalize. <i>PLoS Biology</i> , 2016 , 14, e1002542 | 9.7 | 37 |
| 48 | Multiple Citation Indicators and Their Composite across Scientific Disciplines. <i>PLoS Biology</i> , 2016 , 14, e1002501 | 9.7 | 40 |
| 47 | Mapping science introduction: Past, present and future 2015 , 41, 12-16 | | 16 |
| 46 | Exploring the relationships between a map of altruism and a map of science 2015 , 41, 30-33 | | 1 |
| 45 | 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 |

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| 44 | Identifying emerging topics in science and technology. <i>Research Policy</i> , 2014 , 43, 1450-1467 | 7.5 | 200 |
| 43 | Classification of individual articles from all of science by research level. <i>Journal of Informetrics</i> , 2014 , 8, 1-12 | 3.1 | 26 |
| 42 | Mapping altruism. <i>Journal of Informetrics</i> , 2014 , 8, 431-447 | 3.1 | 10 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | Estimates of the continuously publishing core in the scientific workforce. <i>PLoS ONE</i> , 2014 , 9, e101698 | 3.7 | 69 |
| 37 | Bibliometrics: Is your most cited work your best?. <i>Nature</i> , 2014 , 514, 561-2 | 50.4 | 67 |
| 36 | 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 |
| 35 | A list of highly influential biomedical researchers, 1996-2011. <i>European Journal of Clinical Investigation</i> , 2013 , 43, 1339-65 | 4.6 | 28 |
| 34 | 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 |
| 33 | Design and update of a classification system: the UCSD map of science. <i>PLoS ONE</i> , 2012 , 7, e39464 | 3.7 | 130 |
| 32 | OpenOrd: an open-source toolbox for large graph layout 2011 , | | 85 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Toward an objective, reliable and accurate method for measuring research leadership. <i>Scientometrics</i> , 2010 , 82, 539-553 | 3 | 35 |

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|----|---|------|--|-----|
| 26 | 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 |
| 25 | Toward a consensus map of science. <i>Journal of the Association for Information Science and Technology</i> , 2009 , 60, 455-476 | | | 155 |
| 24 | Using detailed maps of science to identify potential collaborations. <i>Scientometrics</i> , 2009 , 79, 27-44 | 3 | | 58 |
| 23 | Mapping the structure and evolution of chemistry research. <i>Scientometrics</i> , 2009 , 79, 45-60 | 3 | | 68 |
| 22 | 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 |
| 21 | Galileo's stream: A framework for understanding knowledge production. <i>Research Policy</i> , 2008 , 37, 330-352 | | | 11 |
| 20 | Thought leadership: A new indicator for national and institutional comparison. <i>Scientometrics</i> , 2008 , 75, 239-250 | 3 | | 20 |
| 19 | Measuring science-technology interaction using rare inventor-author names. <i>Journal of Informetrics</i> , 2008 , 2, 173-182 | 3.1 | | 48 |
| 18 | Mapping, illuminating, and interacting with science 2007 , | | | 2 |
| 17 | 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 |
| 16 | Quantitative evaluation of large maps of science. <i>Scientometrics</i> , 2006 , 68, 475-499 | 3 | | 53 |
| 15 | 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 |
| 14 | Visualizing knowledge domains. <i>Annual Review of Information Science & Technology</i> , 2005 , 37, 179-255 | | | 640 |
| 13 | Mapping the backbone of science. <i>Scientometrics</i> , 2005 , 64, 351-374 | 3 | | 520 |
| 12 | 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 |
| 11 | 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 |
| 10 | 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 |
| 9 | Comparative analysis of multiple genome-scale data sets. <i>Genome Research</i> , 2002 , 12, 1564-73 | 9.7 | | 19 |

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| 8 | Information Visualization, Human-Computer Interaction, and Cognitive Psychology: Domain Visualizations. <i>Lecture Notes in Computer Science</i> , 2002 , 145-158 | 0.9 | 5 |
| 7 | A Call to Researchers. <i>D-Lib Magazine</i> , 2001 , 7, | | 4 |
| 6 | Prosperity Game to Teach Global Competitiveness to University Students. <i>Journal of Teaching in International Business</i> , 1997 , 8, 5-19 | 0.9 | 2 |
| 5 | 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 |
| 4 | Robust Methods for Microarray Analysis99-130 | | |
| 3 | A principled methodology for comparing relatedness measures for clustering publications. <i>Quantitative Science Studies</i> ,1-23 | 3.8 | 14 |
| 2 | Assessment of transparency indicators across the biomedical literature: how open is open? | | 1 |
| 1 | The rapid, massive growth of COVID-19 authors in the scientific literature | | 7 |