

Yi Zhang

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.

69
papers

1,060
citations

17
h-index

31
g-index

82
ext. papers

1,467
ext. citations

4.4
avg, IF

4.84
L-index

#	Paper	IF	Citations
69	Explicating AI Literacy of Employees at Digital Workplaces. <i>IEEE Transactions on Engineering Management</i> , 2022 , 1-14	2.6	3
68	What is behind the globalization of technology? Exploring the interplay of multi-level drivers of international patent extension in the solar photovoltaic industry. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 163, 112510	16.2	0
67	One-year in: COVID-19 research at the international level in COVID-19 data. <i>PLoS ONE</i> , 2022 , 17, e02616247	3.7	0
66	Determination of Factors Driving the Genome Editing Field in the CRISPR Era Using Bibliometrics. <i>CRISPR Journal</i> , 2021 , 4, 728-738	2.5	0
65	Dynamic network analytics for recommending scientific collaborators. <i>Scientometrics</i> , 2021 , 126, 8789-8814	3.14	0
64	Topic evolution, disruption and resilience in early COVID-19 research. <i>Scientometrics</i> , 2021 , 126, 1-29	3	8
63	Profiling COVID-19 Genetic Research: A Data-Driven Study Utilizing Intelligent Bibliometrics. <i>Frontiers in Research Metrics and Analytics</i> , 2021 , 6, 683212	1.3	4
62	Ethics and privacy of artificial intelligence: Understandings from bibliometrics. <i>Knowledge-Based Systems</i> , 2021 , 222, 106994	7.3	3
61	The Anniversary Tribute of PICMET: 1989-2018. <i>IEEE Transactions on Engineering Management</i> , 2021 , 68, 612-627	2.6	
60	Identifying citation patterns of scientific breakthroughs: A perspective of dynamic citation process. <i>Information Processing and Management</i> , 2021 , 58, 102428	6.3	4
59	Exploring the genetic basis of diseases through a heterogeneous bibliometric network: A methodology and case study. <i>Technological Forecasting and Social Change</i> , 2021 , 164, 120513	9.5	3
58	Profiling and predicting the problem-solving patterns in China's research systems: A methodology of intelligent bibliometrics and empirical insights. <i>Quantitative Science Studies</i> , 2021 , 2, 409-432	3.8	1
57	Knowledge Entity Extraction and Text Mining in the Era of Big Data. <i>Data and Information Management</i> , 2021 , 5, 309-311	1.4	0
56	Exploring Topics in Bibliometric Research Through Citation Networks and Semantic Analysis. <i>Frontiers in Research Metrics and Analytics</i> , 2021 , 6, 742311	1.3	8
55	Unraveling the capabilities that enable digital transformation: A data-driven methodology and the case of artificial intelligence. <i>Advanced Engineering Informatics</i> , 2021 , 50, 101368	7.4	4
54	Bi-layer network analytics: A methodology for characterizing emerging general-purpose technologies. <i>Journal of Informetrics</i> , 2021 , 15, 101202	3.1	5
53	Parallel or Intersecting Lines? Intelligent Bibliometrics for Investigating the Involvement of Data Science in Policy Analysis. <i>IEEE Transactions on Engineering Management</i> , 2020 , 1-13	2.6	4

52	Exploring the knowledge spillovers of a technology in an entrepreneurial ecosystem—the case of artificial intelligence in Sydney. <i>Thunderbird International Business Review</i> , 2020 , 62, 457-474	1.9	7
51	Overlapping Community Discovery for Identifying Key Research Themes. <i>IEEE Transactions on Engineering Management</i> , 2020 , 1-13	2.6	3
50	Exploring Technology Evolution Pathways to Facilitate Technology Management: From a Technology Life Cycle Perspective. <i>IEEE Transactions on Engineering Management</i> , 2020 , 1-13	2.6	5
49	Extraction and Evaluation of Knowledge Entities from Scientific Documents 2020 ,		2
48	Framework of Computational Intelligence-Enhanced Knowledge Base Construction: Methodology and A Case of Gene-Related Cardiovascular Disease. <i>International Journal of Computational Intelligence Systems</i> , 2020 , 13, 1109	3.4	2
47	Tracking and Mining the COVID-19 Research Literature. <i>Frontiers in Research Metrics and Analytics</i> , 2020 , 5, 594060	1.3	8
46	Consolidation in a crisis: Patterns of international collaboration in early COVID-19 research. <i>PLoS ONE</i> , 2020 , 15, e0236307	3.7	53
45	A hybrid approach to detecting technological recombination based on text mining and patent network analysis. <i>Scientometrics</i> , 2019 , 121, 699-737	3	11
44	Discovering and forecasting interactions in big data research: A learning-enhanced bibliometric study. <i>Technological Forecasting and Social Change</i> , 2019 , 146, 795-807	9.5	28
43	An assessment of technology forecasting: Revisiting earlier analyses on dye-sensitized solar cells (DSSCs). <i>Technological Forecasting and Social Change</i> , 2019 , 146, 831-843	9.5	11
42	Forecasting technical emergence: An introduction. <i>Technological Forecasting and Social Change</i> , 2019 , 146, 626-627	9.5	5
41	Predicting the dynamics of scientific activities: A diffusion-based network analytic methodology. <i>Proceedings of the Association for Information Science and Technology</i> , 2018 , 55, 598-607	0.4	6
40	A Link Prediction-Based Method for Identifying Potential Cooperation Partners: A Case Study on Four Journals of Informetrics 2018 ,		2
39	Technology-driven mergers and acquisitions of Chinese acquirers: development of a multi-dimensional framework for post-innovation performance. <i>International Journal of Technology Management</i> , 2018 , 78, 280	1.2	1
38	Does deep learning help topic extraction? A kernel k-means clustering method with word embedding. <i>Journal of Informetrics</i> , 2018 , 12, 1099-1117	3.1	53
37	A hybrid method to trace technology evolution pathways: a case study of 3D printing. <i>Scientometrics</i> , 2017 , 111, 185-204	3	38
36	An entropy-based indicator system for measuring the potential of patents in technological innovation: rejecting moderation. <i>Scientometrics</i> , 2017 , 111, 1925-1946	3	17
35	Scientific evolutionary pathways: Identifying and visualizing relationships for scientific topics. <i>Journal of the Association for Information Science and Technology</i> , 2017 , 68, 1925-1939	2.7	45

34	Scientometrics for tech mining: an introduction. <i>Scientometrics</i> , 2017 , 111, 1875-1878	3	5
33	Measuring interdisciplinarity of a research system: detecting distinction between publication categories and citation categories. <i>Scientometrics</i> , 2017 , 111, 2023-2039	3	12
32	Detecting and predicting the topic change of Knowledge-based Systems: A topic-based bibliometric analysis from 1991 to 2016. <i>Knowledge-Based Systems</i> , 2017 , 133, 255-268	7.3	51
31	Requirement-oriented core technological components identification based on SAO analysis. <i>Scientometrics</i> , 2017 , 112, 1229-1248	3	12
30	Multiloop Integral Controllability Analysis for Nonlinear Multiple-Input Single-Output Processes. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8054-8065	3.9	2
29	Text mining to gain technical intelligence for acquired target selection: A case study for China's computer numerical control machine tools industry. <i>Technological Forecasting and Social Change</i> , 2017 , 116, 162-180	9.5	13
28	Mixed Similarity Diffusion for Recommendation on Bipartite Networks. <i>IEEE Access</i> , 2017 , 5, 21029-21038	3.5	11
27	Validating the Earlier Analyses and Forecasting on Dye-Sensitized Solar Cells (DSSCs) 2017 ,		1
26	Patent Network Analysis for Identifying Technological Evolution: A Case Study of China's Artificial Intelligence Technologies 2017 ,		2
25	Technology roadmapping for competitive technical intelligence. <i>Technological Forecasting and Social Change</i> , 2016 , 110, 175-186	9.5	34
24	Topic analysis and forecasting for science, technology and innovation: Methodology with a case study focusing on big data research. <i>Technological Forecasting and Social Change</i> , 2016 , 105, 179-191	9.5	95
23	How Does National Scientific Funding Support Emerging Interdisciplinary Research: A Comparison Study of Big Data Research in the US and China. <i>PLoS ONE</i> , 2016 , 11, e0154509	3.7	28
22	2016 ,		1
21	A hybrid similarity measure method for patent portfolio analysis. <i>Journal of Informetrics</i> , 2016 , 10, 1108-1130	3.130	32
20	Identifying Targets for Technology Mergers and Acquisitions Using Patent Information and Semantic Analysis. <i>Innovation, Technology and Knowledge Management</i> , 2016 , 173-186	0.1	0
19	Identifying Technological Topic Changes in Patent Claims Using Topic Modeling. <i>Innovation, Technology and Knowledge Management</i> , 2016 , 187-209	0.1	
18	Semi-automatic Technology Roadmapping Composing Method for Multiple Science, Technology, and Innovation Data Incorporation. <i>Innovation, Technology and Knowledge Management</i> , 2016 , 211-227	0.1	0
17	Generating Competitive Technical Intelligence Using Topical Analysis, Patent Citation Analysis, and Term Clumping Analysis. <i>Innovation, Technology and Knowledge Management</i> , 2016 , 153-172	0.1	3

16	Identifying target for technology mergers and acquisitions using patent information and semantic analysis 2015 ,		2
15	Modeling technological topic changes in patent claims 2015 ,		7
14	Multiple science data-oriented Technology Roadmapping method 2015 ,		1
13	A patent analysis method to trace technology evolutionary pathways. <i>Scientometrics</i> , 2014 , 100, 705-721,		36
12	How to combine term clumping and technology roadmapping for newly emerging science & technology competitive intelligence: Problem & solution pattern based semantic TRIZ tool and case study. <i>Scientometrics</i> , 2014 , 101, 1375-1389	3	46
11	Term clumping for technical intelligence: A case study on dye-sensitized solar cells. <i>Technological Forecasting and Social Change</i> , 2014 , 85, 26-39	9.5	100
10	China's patterns of international technological collaboration 1976-2010: a patent analysis study. <i>Technology Analysis and Strategic Management</i> , 2014 , 26, 531-546	3.2	6
9	Four dimensional Science and Technology planning: A new approach based on bibliometrics and technology roadmapping. <i>Technological Forecasting and Social Change</i> , 2014 , 81, 39-48	9.5	84
8	Triple Helix innovation in China's dye-sensitized solar cell industry: hybrid methods with semantic TRIZ and technology roadmapping. <i>Scientometrics</i> , 2014 , 99, 55-75	3	45
7	A hybrid visualisation model for technology roadmapping: bibliometrics, qualitative methodology and empirical study. <i>Technology Analysis and Strategic Management</i> , 2013 , 25, 707-724	3.2	55
6	Text Clumping for Technical Intelligence 2012 ,		6
5	Identification of topic evolution: network analytics with piecewise linear representation and word embedding. <i>Scientometrics</i> , 1	3	1
4	Consolidation in a Crisis: Patterns of International Collaboration in COVID-19 Research. <i>SSRN Electronic Journal</i> ,	1	5
3	Topic Evolution, Disruption and Resilience in Early COVID-19 Research. <i>SSRN Electronic Journal</i> ,	1	2
2	Bi-layer network analytics: A methodology for characterizing emerging general-purpose technologies. <i>SSRN Electronic Journal</i> ,	1	2
1	One-Year In: COVID-19 Research at the International Level in COVID-19 Data. <i>SSRN Electronic Journal</i> ,	1	2