

Yi Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,882
citations

279701

23
h-index

302012

39
g-index

82
all docs

82
docs citations

82
times ranked

1122
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.2	132
2	“Term clumping” for technical intelligence: A case study on dye-sensitized solar cells. <i>Technological Forecasting and Social Change</i> , 2014, 85, 26-39.	6.2	131
3	Does deep learning help topic extraction? A kernel k-means clustering method with word embedding. <i>Journal of Informetrics</i> , 2018, 12, 1099-1117.	1.4	105
4	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.	6.2	104
5	Consolidation in a crisis: Patterns of international collaboration in early COVID-19 research. <i>PLoS ONE</i> , 2020, 15, e0236307.	1.1	102
6	Exploring Topics in Bibliometric Research Through Citation Networks and Semantic Analysis. <i>Frontiers in Research Metrics and Analytics</i> , 2021, 6, 742311.	0.9	71
7	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.	4.0	70
8	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.	1.5	68
9	A hybrid method to trace technology evolution pathways: a case study of 3D printing. <i>Scientometrics</i> , 2017, 111, 185-204.	1.6	64
10	A hybrid visualisation model for technology roadmapping: bibliometrics, qualitative methodology and empirical study. <i>Technology Analysis and Strategic Management</i> , 2013, 25, 707-724.	2.0	63
11	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.	1.6	59
12	A hybrid similarity measure method for patent portfolio analysis. <i>Journal of Informetrics</i> , 2016, 10, 1108-1130.	1.4	59
13	Technology roadmapping for competitive technical intelligence. <i>Technological Forecasting and Social Change</i> , 2016, 110, 175-186.	6.2	56
14	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.	1.6	50
15	A patent analysis method to trace technology evolutionary pathways. <i>Scientometrics</i> , 2014, 100, 705-721.	1.6	50
16	Discovering and forecasting interactions in big data research: A learning-enhanced bibliometric study. <i>Technological Forecasting and Social Change</i> , 2019, 146, 795-807.	6.2	50
17	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.	1.1	40
18	Parallel or Intersecting Lines? Intelligent Bibliometrics for Investigating the Involvement of Data Science in Policy Analysis. <i>IEEE Transactions on Engineering Management</i> , 2021, 68, 1259-1271.	2.4	38

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19	Ethics and privacy of artificial intelligence: Understandings from bibliometrics. Knowledge-Based Systems, 2021, 222, 106994.	4.0	31
20	Unraveling the capabilities that enable digital transformation: A data-driven methodology and the case of artificial intelligence. Advanced Engineering Informatics, 2021, 50, 101368.	4.0	31
21	An entropy-based indicator system for measuring the potential of patents in technological innovation: rejecting moderation. Scientometrics, 2017, 111, 1925-1946.	1.6	29
22	Identifying citation patterns of scientific breakthroughs: A perspective of dynamic citation process. Information Processing and Management, 2021, 58, 102428.	5.4	28
23	Exploring the knowledge spillovers of a technology in an entrepreneurial ecosystemâ€”The case of artificial intelligence in Sydney. Thunderbird International Business Review, 2020, 62, 457-474.	0.9	27
24	Topic evolution, disruption and resilience in early COVID-19 research. Scientometrics, 2021, 126, 4225-4253.	1.6	25
25	A hybrid approach to detecting technological recombination based on text mining and patent network analysis. Scientometrics, 2019, 121, 699-737.	1.6	23
26	Requirement-oriented core technological componentsâ€™ identification based on SAO analysis. Scientometrics, 2017, 112, 1229-1248.	1.6	21
27	Text mining to gain technical intelligence for acquired target selection: A case study for China's computer numerical control machine tools industry. Technological Forecasting and Social Change, 2017, 116, 162-180.	6.2	19
28	Exploring Technology Evolution Pathways to Facilitate Technology Management: From a Technology Life Cycle Perspective. IEEE Transactions on Engineering Management, 2021, 68, 1347-1359.	2.4	19
29	Tracking and Mining the COVID-19 Research Literature. Frontiers in Research Metrics and Analytics, 2020, 5, 594060.	0.9	18
30	Explicating AI Literacy of Employees at Digital Workplaces. IEEE Transactions on Engineering Management, 2024, 71, 810-823.	2.4	18
31	Collaborative networks in gene editing. Nature Biotechnology, 2019, 37, 1107-1109.	9.4	17
32	Bi-layer network analytics: A methodology for characterizing emerging general-purpose technologies. Journal of Informetrics, 2021, 15, 101202.	1.4	16
33	Measuring interdisciplinarity of a research system: detecting distinction between publication categories and citation categories. Scientometrics, 2017, 111, 2023-2039.	1.6	15
34	What is behind the globalization of technology? Exploring the interplay of multi-level drivers of international patent extension in the solar photovoltaic industry. Renewable and Sustainable Energy Reviews, 2022, 163, 112510.	8.2	13
35	One-year in: COVID-19 research at the international level in COVID-19 data. PLoS ONE, 2022, 17, e0261624.	1.1	13
36	Mixed Similarity Diffusion for Recommendation on Bipartite Networks. IEEE Access, 2017, 5, 21029-21038.	2.6	12

#	ARTICLE	IF	CITATIONS
37	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.	6.2	12
38	Profiling COVID-19 Genetic Research: A Data-Driven Study Utilizing Intelligent Bibliometrics. <i>Frontiers in Research Metrics and Analytics</i> , 2021, 6, 683212.	0.9	12
39	Modeling technological topic changes in patent claims. , 2015, , .		11
40	Scientometrics for tech mining: an introduction. <i>Scientometrics</i> , 2017, 111, 1875-1878.	1.6	10
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.	0.3	10
42	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.	6.2	9
43	Text Clumping for Technical Intelligence. , 2012, , .		8
44	China's patterns of international technological collaboration 1976-2010: a patent analysis study. <i>Technology Analysis and Strategic Management</i> , 2014, 26, 531-546.	2.0	8
45	Forecasting technical emergence: An introduction. <i>Technological Forecasting and Social Change</i> , 2019, 146, 626-627.	6.2	8
46	Identification of topic evolution: network analytics with piecewise linear representation and word embedding. <i>Scientometrics</i> , 2022, 127, 5353-5383.	1.6	8
47	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.	1.6	7
48	Consolidation in a Crisis: Patterns of International Collaboration in COVID-19 Research. <i>SSRN Electronic Journal</i> , 0, , .	0.4	7
49	Dynamic network analytics for recommending scientific collaborators. <i>Scientometrics</i> , 2021, 126, 8789-8814.	1.6	7
50	Extraction and Evaluation of Knowledge Entities from Scientific Documents. , 2020, , .		6
51	Overlapping Community Discovery for Identifying Key Research Themes. <i>IEEE Transactions on Engineering Management</i> , 2021, 68, 1321-1333.	2.4	5
52	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.	1.6	5
53	Identifying target for technology mergers and acquisitions using patent information and semantic analysis. , 2015, , .		4
54	Topic Evolution, Disruption and Resilience in Early COVID-19 Research. <i>SSRN Electronic Journal</i> , 0, , .	0.4	4

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55	Recommending scientific collaborators: Bibliometric networks for medical research entities. , 2020, , .		4
56	An introduction of advanced tech mining: Technical emergence indicators and measurements. Technological Forecasting and Social Change, 2022, 182, 121855.	6.2	4
57	Exploring Technology evolution pathways to facilitate Technology management: A study of Dye-sensitized solar cells (DSSCs). , 2016, , .		3
58	Generating Competitive Technical Intelligence Using Topical Analysis, Patent Citation Analysis, and Term Clumping Analysis. Innovation, Technology and Knowledge Management, 2016, , 153-172.	0.4	3
59	Multiloop Integral Controllability Analysis for Nonlinear Multiple-Input Single-Output Processes. Industrial & Engineering Chemistry Research, 2017, 56, 8054-8065.	1.8	3
60	Knowledge Entity Extraction and Text Mining in the Era of Big Data. Data and Information Management, 2021, 5, 309-311.	0.7	3
61	Guest Editorial: Tech Mining for Engineering Management: An Introduction. IEEE Transactions on Engineering Management, 2021, 68, 1211-1213.	2.4	3
62	One-Year In: COVID-19 Research at the International Level in COVID-19 Data. SSRN Electronic Journal, 0, , .	0.4	3
63	Determination of Factors Driving the Genome Editing Field in the CRISPR Era Using Bibliometrics. CRISPR Journal, 2021, 4, 728-738.	1.4	3
64	Multiple science data-oriented Technology Roadmapping method. , 2015, , .		2
65	Identifying Technological Topic Changes in Patent Claims Using Topic Modeling. Innovation, Technology and Knowledge Management, 2016, , 187-209.	0.4	2
66	Patent Network Analysis for Identifying Technological Evolution: A Case Study of China's Artificial Intelligence Technologies. , 2017, , .		2
67	A Link Prediction-Based Method for Identifying Potential Cooperation Partners: A Case Study on Four Journals of Informetrics. , 2018, , .		2
68	Technology-driven mergers and acquisitions of Chinese acquirers: development of a multi-dimensional framework for post-innovation performance. International Journal of Technology Management, 2018, 78, 280.	0.2	2
69	The Anniversary Tribute of PICMET: 1989â€“2018. IEEE Transactions on Engineering Management, 2021, 68, 612-627.	2.4	2
70	Bi-layer network analytics: A methodology for characterizing emerging general-purpose technologies. SSRN Electronic Journal, 0, , .	0.4	2
71	Extraction and Evaluation of Knowledge Entities from Scientific Documents. Journal of Data and Information Science, 2021, 6, 1-5.	0.5	2
72	Exploring Genetic Basis for Diseases Through a Heterogeneous Bibliometric Network: Methodology and a Case Study. SSRN Electronic Journal, 0, , .	0.4	2

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73	Identifying Targets for Technology Mergers and Acquisitions Using Patent Information and Semantic Analysis. <i>Innovation, Technology and Knowledge Management</i> , 2016, , 173-186.	0.4	1
74	Validating the Earlier Analyses and Forecasting on Dye-Sensitized Solar Cells (DSSCs). , 2017, , .		1
75	Discovering Interactions in Big Data Research: A Learning-Enhanced Bibliometric Study. , 2017, , .		1
76	How is Data Science Involved in Policy Analysis?: A Bibliometric Perspective. , 2018, , .		1
77	Cooperation as a Mediator Variable Between Research Fund and Scientific Outputs: Evidence from NSFC-Guangdong Joint Fund. , 2017, , .		0
78	Detecting Hotspots in Interdisciplinary Research Based on Overlapping Community Detection. , 2018, , .		0
79	Map-based medical practice behavior analysis: Methodology and a case study on Australiaâ€™s medical practices. , 2018, , .		0
80	Editorial: Advanced Analytics and Decision Making for Research Policy and Strategic Management. <i>Frontiers in Research Metrics and Analytics</i> , 2021, 6, 778622.	0.9	0