

# Yi Zhang

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6095231/yi-zhang-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Term clumping for technical intelligence: A case study on dye-sensitized solar cells. <i>Technological Forecasting and Social Change</i> , <b>2014</b> , 85, 26-39	9.5	100
68	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> , <b>2016</b> , 105, 179-191	9.5	95
67	Four dimensional Science and Technology planning: A new approach based on bibliometrics and technology roadmapping. <i>Technological Forecasting and Social Change</i> , <b>2014</b> , 81, 39-48	9.5	84
66	A hybrid visualisation model for technology roadmapping: bibliometrics, qualitative methodology and empirical study. <i>Technology Analysis and Strategic Management</i> , <b>2013</b> , 25, 707-724	3.2	55
65	Consolidation in a crisis: Patterns of international collaboration in early COVID-19 research. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236307	3.7	53
64	Does deep learning help topic extraction? A kernel k-means clustering method with word embedding. <i>Journal of Informetrics</i> , <b>2018</b> , 12, 1099-1117	3.1	53
63	Detecting and predicting the topic change of Knowledge-based Systems: A topic-based bibliometric analysis from 1991 to 2016. <i>Knowledge-Based Systems</i> , <b>2017</b> , 133, 255-268	7.3	51
62	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> , <b>2014</b> , 101, 1375-1389	3	46
61	Scientific evolutionary pathways: Identifying and visualizing relationships for scientific topics. <i>Journal of the Association for Information Science and Technology</i> , <b>2017</b> , 68, 1925-1939	2.7	45
60	Triple Helix innovation in China's dye-sensitized solar cell industry: hybrid methods with semantic TRIZ and technology roadmapping. <i>Scientometrics</i> , <b>2014</b> , 99, 55-75	3	45
59	A hybrid method to trace technology evolution pathways: a case study of 3D printing. <i>Scientometrics</i> , <b>2017</b> , 111, 185-204	3	38
58	A patent analysis method to trace technology evolutionary pathways. <i>Scientometrics</i> , <b>2014</b> , 100, 705-723	3	36
57	Technology roadmapping for competitive technical intelligence. <i>Technological Forecasting and Social Change</i> , <b>2016</b> , 110, 175-186	9.5	34
56	A hybrid similarity measure method for patent portfolio analysis. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 1108-1130	3.1	32
55	Discovering and forecasting interactions in big data research: A learning-enhanced bibliometric study. <i>Technological Forecasting and Social Change</i> , <b>2019</b> , 146, 795-807	9.5	28
54	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> , <b>2016</b> , 11, e0154509	3.7	28
53	An entropy-based indicator system for measuring the potential of patents in technological innovation: rejecting moderation. <i>Scientometrics</i> , <b>2017</b> , 111, 1925-1946	3	17

52	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> , <b>2017</b> , 116, 162-180	9.5	13
51	Measuring interdisciplinarity of a research system: detecting distinction between publication categories and citation categories. <i>Scientometrics</i> , <b>2017</b> , 111, 2023-2039	3	12
50	Requirement-oriented core technological components identification based on SAO analysis. <i>Scientometrics</i> , <b>2017</b> , 112, 1229-1248	3	12
49	A hybrid approach to detecting technological recombination based on text mining and patent network analysis. <i>Scientometrics</i> , <b>2019</b> , 121, 699-737	3	11
48	Mixed Similarity Diffusion for Recommendation on Bipartite Networks. <i>IEEE Access</i> , <b>2017</b> , 5, 21029-21038	9.5	11
47	An assessment of technology forecasting: Revisiting earlier analyses on dye-sensitized solar cells (DSSCs). <i>Technological Forecasting and Social Change</i> , <b>2019</b> , 146, 831-843	9.5	11
46	Tracking and Mining the COVID-19 Research Literature. <i>Frontiers in Research Metrics and Analytics</i> , <b>2020</b> , 5, 594060	1.3	8
45	Topic evolution, disruption and resilience in early COVID-19 research. <i>Scientometrics</i> , <b>2021</b> , 126, 1-29	3	8
44	Exploring Topics in Bibliometric Research Through Citation Networks and Semantic Analysis. <i>Frontiers in Research Metrics and Analytics</i> , <b>2021</b> , 6, 742311	1.3	8
43	Exploring the knowledge spillovers of a technology in an entrepreneurial ecosystem—the case of artificial intelligence in Sydney. <i>Thunderbird International Business Review</i> , <b>2020</b> , 62, 457-474	1.9	7
42	Modeling technological topic changes in patent claims <b>2015</b> ,		7
41	China's patterns of international technological collaboration 1976-2010: a patent analysis study. <i>Technology Analysis and Strategic Management</i> , <b>2014</b> , 26, 531-546	3.2	6
40	Text Clumping for Technical Intelligence <b>2012</b> ,		6
39	Predicting the dynamics of scientific activities: A diffusion-based network analytic methodology. <i>Proceedings of the Association for Information Science and Technology</i> , <b>2018</b> , 55, 598-607	0.4	6
38	Scientometrics for tech mining: an introduction. <i>Scientometrics</i> , <b>2017</b> , 111, 1875-1878	3	5
37	Exploring Technology Evolution Pathways to Facilitate Technology Management: From a Technology Life Cycle Perspective. <i>IEEE Transactions on Engineering Management</i> , <b>2020</b> , 1-13	2.6	5
36	Consolidation in a Crisis: Patterns of International Collaboration in COVID-19 Research. <i>SSRN Electronic Journal</i> ,	1	5
35	Forecasting technical emergence: An introduction. <i>Technological Forecasting and Social Change</i> , <b>2019</b> , 146, 626-627	9.5	5

34	Bi-layer network analytics: A methodology for characterizing emerging general-purpose technologies. <i>Journal of Informetrics</i> , <b>2021</b> , 15, 101202	3.1	5
33	Parallel or Intersecting Lines? Intelligent Bibliometrics for Investigating the Involvement of Data Science in Policy Analysis. <i>IEEE Transactions on Engineering Management</i> , <b>2020</b> , 1-13	2.6	4
32	Profiling COVID-19 Genetic Research: A Data-Driven Study Utilizing Intelligent Bibliometrics. <i>Frontiers in Research Metrics and Analytics</i> , <b>2021</b> , 6, 683212	1.3	4
31	Identifying citation patterns of scientific breakthroughs: A perspective of dynamic citation process. <i>Information Processing and Management</i> , <b>2021</b> , 58, 102428	6.3	4
30	Unraveling the capabilities that enable digital transformation: A data-driven methodology and the case of artificial intelligence. <i>Advanced Engineering Informatics</i> , <b>2021</b> , 50, 101368	7.4	4
29	Overlapping Community Discovery for Identifying Key Research Themes. <i>IEEE Transactions on Engineering Management</i> , <b>2020</b> , 1-13	2.6	3
28	Explicating AI Literacy of Employees at Digital Workplaces. <i>IEEE Transactions on Engineering Management</i> , <b>2022</b> , 1-14	2.6	3
27	Ethics and privacy of artificial intelligence: Understandings from bibliometrics. <i>Knowledge-Based Systems</i> , <b>2021</b> , 222, 106994	7.3	3
26	Generating Competitive Technical Intelligence Using Topical Analysis, Patent Citation Analysis, and Term Clumping Analysis. <i>Innovation, Technology and Knowledge Management</i> , <b>2016</b> , 153-172	0.1	3
25	Exploring the genetic basis of diseases through a heterogeneous bibliometric network: A methodology and case study. <i>Technological Forecasting and Social Change</i> , <b>2021</b> , 164, 120513	9.5	3
24	Multiloop Integral Controllability Analysis for Nonlinear Multiple-Input Single-Output Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 8054-8065	3.9	2
23	Patent Network Analysis for Identifying Technological Evolution: A Case Study of China's Artificial Intelligence Technologies <b>2017</b> ,		2
22	Identifying target for technology mergers and acquisitions using patent information and semantic analysis <b>2015</b> ,		2
21	Extraction and Evaluation of Knowledge Entities from Scientific Documents <b>2020</b> ,		2
20	Topic Evolution, Disruption and Resilience in Early COVID-19 Research. <i>SSRN Electronic Journal</i> ,	1	2
19	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> , <b>2020</b> , 13, 1109	3.4	2
18	Bi-layer network analytics: A methodology for characterizing emerging general-purpose technologies. <i>SSRN Electronic Journal</i> ,	1	2
17	A Link Prediction-Based Method for Identifying Potential Cooperation Partners: A Case Study on Four Journals of Informetrics <b>2018</b> ,		2

16	One-Year In: COVID-19 Research at the International Level in COVID-19 Data. <i>SSRN Electronic Journal</i> ,	1	2
15	Validating the Earlier Analyses and Forecasting on Dye-Sensitized Solar Cells (DSSCs) <b>2017</b> ,		1
14	Multiple science data-oriented Technology Roadmapping method <b>2015</b> ,		1
13	Identification of topic evolution: network analytics with piecewise linear representation and word embedding. <i>Scientometrics</i> ,1	3	1
12	<b>2016</b> ,		1
11	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> , <b>2021</b> , 2, 409-432	3.8	1
10	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> , <b>2018</b> , 78, 280	1.2	1
9	Determination of Factors Driving the Genome Editing Field in the CRISPR Era Using Bibliometrics. <i>CRISPR Journal</i> , <b>2021</b> , 4, 728-738	2.5	0
8	Dynamic network analytics for recommending scientific collaborators. <i>Scientometrics</i> , <b>2021</b> , 126, 8789-8814		0
7	Identifying Targets for Technology Mergers and Acquisitions Using Patent Information and Semantic Analysis. <i>Innovation, Technology and Knowledge Management</i> , <b>2016</b> , 173-186	0.1	0
6	Semi-automatic Technology Roadmapping Composing Method for Multiple Science, Technology, and Innovation Data Incorporation. <i>Innovation, Technology and Knowledge Management</i> , <b>2016</b> , 211-227	0.1	0
5	Knowledge Entity Extraction and Text Mining in the Era of Big Data. <i>Data and Information Management</i> , <b>2021</b> , 5, 309-311	1.4	0
4	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> , <b>2022</b> , 163, 112510	16.2	0
3	One-year in: COVID-19 research at the international level in COVID-19 data. <i>PLoS ONE</i> , <b>2022</b> , 17, e02616247	3.7	0
2	Identifying Technological Topic Changes in Patent Claims Using Topic Modeling. <i>Innovation, Technology and Knowledge Management</i> , <b>2016</b> , 187-209	0.1	
1	The Anniversary Tribute of PICMET: 1989-2018. <i>IEEE Transactions on Engineering Management</i> , <b>2021</b> , 68, 612-627	2.6	