Yuya Kajikawa

List of Publications by Year in descending order

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148 papers	4,537 citations	87723 38 h-index	110170 64 g-index
152 all docs	152 docs citations	152 times ranked	3844 citing authors

#	Article	IF	Citations
1	A review of the ecosystem concept â€" Towards coherent ecosystem design. Technological Forecasting and Social Change, 2018, 136, 49-58.	6.2	298
2	Research core and framework of sustainability science. Sustainability Science, 2008, 3, 215-239.	2.5	276
3	Detecting emerging research fronts based on topological measures in citation networks of scientific publications. Technovation, 2008, 28, 758-775.	4.2	250
4	Creating an academic landscape of sustainability science: an analysis of the citation network. Sustainability Science, 2007, 2, 221.	2.5	233
5	Tracking emerging technologies in energy research: Toward a roadmap for sustainable energy. Technological Forecasting and Social Change, 2008, 75, 771-782.	6.2	214
6	Comparative study on methods of detecting research fronts using different types of citation. Journal of the Association for Information Science and Technology, 2009, 60, 571-580.	2.6	146
7	Texture development of non-epitaxial polycrystalline ZnO films. Journal of Crystal Growth, 2006, 289, 387-394.	0.7	134
8	Sustainability science: the changing landscape of sustainability research. Sustainability Science, 2014, 9, 431-438.	2.5	133
9	Extracting the commercialization gap between science and technology â€" Case study of a solar cell. Technological Forecasting and Social Change, 2010, 77, 1147-1155.	6.2	128
10	Detecting emerging research fronts in regenerative medicine by the citation network analysis of scientific publications. Technological Forecasting and Social Change, 2011, 78, 274-282.	6.2	115
11	Comprehensive perspective on the mechanism of preferred orientation in reactive-sputter-deposited nitrides. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1943-1954.	0.9	101
12	Citation network analysis of organic LEDs. Technological Forecasting and Social Change, 2009, 76, 1115-1123.	6.2	87
13	Structure of research on biomass and bio-fuels: A citation-based approach. Technological Forecasting and Social Change, 2008, 75, 1349-1359.	6.2	85
14	Business, innovation and digital ecosystems landscape survey and knowledge cross sharing. Technological Forecasting and Social Change, 2019, 147, 100-109.	6.2	74
15	Analysis of building environment assessment frameworks and their implications for sustainability indicators. Sustainability Science, 2011, 6, 233-246.	2.5	73
16	Knowledge combination modeling: The measurement of knowledge similarity between different technological domains. Technological Forecasting and Social Change, 2015, 94, 187-201.	6.2	72
17	Exploring Topics in Bibliometric Research Through Citation Networks and Semantic Analysis. Frontiers in Research Metrics and Analytics, 2021, 6, 742311.	0.9	71
18	Link prediction in citation networks. Journal of the Association for Information Science and Technology, 2012, 63, 78-85.	2.6	69

#	Article	IF	Citations
19	Topological analysis of citation networks to discover the future core articles. Journal of the Association for Information Science and Technology, 2007, 58, 872-882.	2.6	67
20	Finding linkage between technology and social issue: A Literature Based Discovery approach. Journal of Engineering and Technology Management - JET-M, 2014, 32, 160-184.	1.4	67
21	Towards institutional analysis of sustainability science: a quantitative examination of the patterns of research collaboration. Sustainability Science, 2010, 5, 115-125.	2.5	65
22	Computer-aided diagnosis: A survey with bibliometric analysis. International Journal of Medical Informatics, 2017, 101, 58-67.	1.6	63
23	Machine learning approach for finding business partners and building reciprocal relationships. Expert Systems With Applications, 2012, 39, 10402-10407.	4.4	61
24	Nanobiotechnology as an emerging research domain from nanotechnology: A bibliometric approach. Scientometrics, 2009, 80, 23-38.	1.6	60
25	An analysis of geographical agglomeration and modularized industrial networks in a regional cluster: A case study at Yamagata prefecture in Japan. Technovation, 2008, 28, 531-539.	4.2	58
26	Bibliometric analysis of service innovation research: Identifying knowledge domain and global network of knowledge. Technological Forecasting and Social Change, 2013, 80, 1085-1093.	6.2	58
27	Reframing socio-hydrological research to include a social science perspective. Journal of Hydrology, 2018, 563, 76-83.	2.3	58
28	An integrated framework for resilience research: a systematic review based on citation network analysis. Sustainability Science, 2018, 13, 235-254.	2.5	55
29	Detecting research fronts using different types of weighted citation networks. Journal of Engineering and Technology Management - JET-M, 2014, 32, 129-146.	1.4	49
30	A multilayered analysis of energy security research and the energy supply process. Applied Energy, 2014, 123, 415-423.	5.1	48
31	Multiscale analysis of interfirm networks in regional clusters. Technovation, 2010, 30, 168-180.	4.2	47
32	Preferred Orientation of Chemical Vapor Deposited Polycrystalline Silicon Carbide Films. Chemical Vapor Deposition, 2002, 8, 99-104.	1.4	46
33	Growth mode during initial stage of chemical vapor deposition. Applied Surface Science, 2005, 245, 281-289.	3.1	46
34	Optics: a bibliometric approach to detect emerging research domains and intellectual bases. Scientometrics, 2009, 78, 543-558.	1.6	44
35	Multi-level perspectives with technology readiness measures for aviation innovation. Sustainability Science, 2013, 8, 87-101.	2.5	44
36	Detecting potential technological fronts by comparing scientific papers and patents. Foresight, 2011, 13, 51-60.	1.2	43

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37	Regulation and innovation: How should small unmanned aerial vehicles be regulated?. Technological Forecasting and Social Change, 2018, 128, 262-274.	6.2	43
38	Emerging topics in energy storage based on a large-scale analysis of academic articles and patents. Applied Energy, 2020, 263, 114625.	5.1	42
39	Analysis of Trends and Emerging Technologies in Water Electrolysis Research Based on a Computational Method: A Comparison with Fuel Cell Research. Sustainability, 2018, 10, 478.	1.6	40
40	Bibliometric Analysis of Social Robotics Research: Identifying Research Trends and Knowledgebase. Applied Sciences (Switzerland), 2017, 7, 1316.	1.3	38
41	Structure of knowledge in the science and technology roadmaps. Technological Forecasting and Social Change, 2008, 75, 1-11.	6.2	37
42	Assessing the industrial opportunity of academic research with patent relatedness: A case study on polymer electrolyte fuel cells. Technological Forecasting and Social Change, 2015, 90, 469-475.	6.2	35
43	The effect of patent family information in patent citation network analysis: a comparative case study in the drivetrain domain. Scientometrics, 2015, 104, 437-452.	1.6	33
44	Comprehensive Analysis of Trends and Emerging Technologies in All Types of Fuel Cells Based on a Computational Method. Sustainability, 2018, 10, 458.	1.6	32
45	Identifying and bridging networks in regional clusters. Technological Forecasting and Social Change, 2012, 79, 252-262.	6.2	30
46	Filling the gap between researchers studying different materials and different methods: a proposal for structured keywords. Journal of Information Science, 2006, 32, 511-524.	2.0	28
47	Tracking modularity in citation networks. Scientometrics, 2010, 83, 783-792.	1.6	27
48	Citation lag analysis in supply chain research. Scientometrics, 2011, 87, 221-232.	1.6	25
49	Extracting commercialization opportunities of the Internet of Things: Measuring text similarity between papers and patents. Technological Forecasting and Social Change, 2019, 138, 45-68.	6.2	25
50	Detection method of emerging leading papers using time transition. Scientometrics, 2014, 101, 1515-1533.	1.6	24
51	Academic landscape of 10Âyears of sustainability science. Sustainability Science, 2017, 12, 869-873.	2.5	23
52	Using acknowledgement data to characterize funding organizations by the types of research sponsored: the case of robotics research. Scientometrics, 2018, 114, 883-904.	1.6	23
53	Unconnected component inclusion technique for patent network analysis: Case study of Internet of Things-related technologies. Journal of Informetrics, 2016, 10, 967-980.	1.4	22
54	Incubation Time during Chemical Vapor Deposition of Si onto SiO2 from Silane. Chemical Vapor Deposition, 2004, 10, 128-133.	1.4	21

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55	Combinatorial masked deposition: simple method to control deposition flux and its spatial distribution. Applied Surface Science, 2004, 225, 372-379.	3.1	21
56	Measuring relatedness between communities in a citation network. Journal of the Association for Information Science and Technology, 2011, 62, 1360-1369.	2.6	21
57	How do we effectively communicate air pollution to change public attitudes and behaviours? A review. Sustainability Science, 2021, 16, 2027-2047.	2.5	20
58	Landscape of Research Areas for Zeolites and Metal-Organic Frameworks Using Computational Classification Based on Citation Networks. Materials, 2017, 10, 1428.	1.3	19
59	Nucleation of W during Chemical Vapor Deposition from WF6and SiH4. Japanese Journal of Applied Physics, 2004, 43, 3945-3950.	0.8	18
60	Automation-driven innovation management? Toward Innovation-Automation-Strategy cycle. Technological Forecasting and Social Change, 2021, 168, 120723.	6.2	17
61	Preferred orientation and film structure of TaN films deposited by reactive magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 332-338.	0.9	16
62	Computerâ€assisted roadmapping: a case study in energy research. Foresight, 2010, 12, 4-15.	1.2	16
63	Analysis on formation of emerging business ecosystems from deals activities of global electric vehicles hub firms. Energy Policy, 2020, 145, 111532.	4.2	14
64	Roughness evolution during chemical vapor deposition. Materials Chemistry and Physics, 2008, 112, 311-318.	2.0	13
65	Generating novel research ideas using computational intelligence: A case study involving fuel cells and ammonia synthesis. Technological Forecasting and Social Change, 2017, 120, 41-47.	6.2	13
66	Major and recent trends in creativity research: An overview of the field with the aid of computational methods. Creativity and Innovation Management, 2021, 30, 475-497.	1.9	13
67	Technology news and their linkage to production of knowledge in robotics research. Technological Forecasting and Social Change, 2019, 143, 114-124.	6.2	12
68	Extraction of business relationships in supply networks using statistical learning theory. Heliyon, 2016, 2, e00123.	1.4	10
69	Toward a Theory of Industrial Supply Networks: A Multi-Level Perspective via Network Analysis. Entropy, 2017, 19, 382.	1.1	10
70	Transition Analysis of Budgetary Allocation for Projects on Hydrogen-Related Technologies in Japan. Sustainability, 2020, 12, 8546.	1.6	10
71	A Simple Index to Restrain Abnormal Protrusions in Films Fabricated Using CVD under Diffusion-Limited Conditions. Chemical Vapor Deposition, 2004, 10, 221-228.	1.4	9
72	Tackling Power Outages in Japan: The Earthquake Compels a Swift Transformation of the Power Supply. Journal of Chemical Engineering of Japan, 2011, , .	0.3	9

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73	The Academic Landscapes of Manufacturing Enterprise Performance and Environmental Sustainability: A Study of Commonalities and Differences. International Journal of Environmental Research and Public Health, 2021, 18, 3370.	1.2	9
74	Interdisciplinary research detection by citation indicators. , 2009, , .		8
75	Trends and Typology of Emerging Antenna Propagation Technologies: Citation Network Analysis. International Journal of Innovation and Technology Management, 2017, 14, 1740005.	0.8	8
76	The roles of supply network centralities in firm performance and the moderating effects of reputation and export-orientation. Production Planning and Control, 2020, 31, 1110-1127.	5.8	8
77	Mechanisms Controlling Preferred Orientation of Chemical Vapour Deposited Polycrystalline Films. Solid State Phenomena, 2003, 93, 411-418.	0.3	7
78	Use of process indices for simplification of the description of vapor deposition systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 111, 156-163.	1.7	7
79	Detecting emerging research fronts in regenerative medicine by citation network analysis of scientific publications. , 2009, , .		7
80	A lead for transvaluation of global nuclear energy research and funded projects in Japan. Applied Energy, 2013, 109, 145-153.	5.1	7
81	Assessing the Sentiment of Social Expectations of Robotic Technologies. , 2017, , .		7
82	Using big data analytics to synthesize research domains and identify emerging fields in urban climatology. Wiley Interdisciplinary Reviews: Climate Change, 2021, 12, .	3.6	7
83	Causal knowledge extraction by natural language processing in material science: a case study in chemical vapor deposition. Data Science Journal, 2006, 5, 108-118.	0.6	7
84	Shedding light on a neglected area: a new approach to knowledge creation. Sustainability Science, 2014, 9, 193-204.	2.5	6
85	Growth of Trumpet-Like Protrusions During the CVD of Silicon Carbide Films. Chemical Vapor Deposition, 2002, 8, 52-55.	1.4	5
86	Cone Structure Formation by Preferred Growth of Random Nuclei in Chemical Vapor Deposited Epitaxial Silicon Films. Chemical Vapor Deposition, 2002, 8, 87-89.	1.4	5
87	Halide CVD of Bi2O3 Under Atmospheric Pressure: Synthesis of Î±-Rods and Î˙-Films. Chemical Vapor Deposition, 2006, 12, 203-206.	1.4	5
88	IDENTIFYING THE LARGE-SCALE STRUCTURE OF THE BLOGOSPHERE. International Journal of Modeling, Simulation, and Scientific Computing, 2009, 12, 207-219.	0.9	5
89	ACADEMIC LANDSCAPE OF INNOVATION RESEARCH AND NATIONAL INNOVATION SYSTEM POLICY REFORMATION IN JAPAN AND THE UNITED STATES. International Journal of Innovation and Technology Management, 2012, 09, 1250044.	0.8	5
90	Eâ€mail networks and leadership performance. Journal of the Association for Information Science and Technology, 2012, 63, 600-606.	2.6	5

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91	Early detection of innovations from citation networks. , 2009, , .		4
92	Email network analysis for leadership. , 2011, , .		4
93	Designing the coherent ecosystem: Review of the ecosystem concept in strategic management. , 2015, , .		4
94	Ambidextrous Firm Strategy Insights From Internet of Things Linked Interfirm Deals. IEEE Transactions on Engineering Management, 2023, 70, 112-127.	2.4	4
95	Citation Network of CVD Research: Research Topics and Journals. Chemical Vapor Deposition, 2007, 13, 523-525.	1.4	3
96	Finding business partners and building reciprocal relationships - A machine learning approach. , 2011, , .		3
97	Utilizing Risk Analysis and Scenario Planning for Technology Roadmapping. , 2013, , 231-244.		3
98	Prediction of collaborative relationships by using network representation learning. , 2017, , .		3
99	Bibliometric methodology to detect collaborative and competitive countries. , 2014, , .		2
100	An analysis of the spillover effects based on patents and inter-industrial transactions for an emerging blockchain technology. Scientometrics, 0, , .	1.6	2
101	Computer-assisted roadmapping: A case study in energy research. , 2008, , .		1
102	Structure of interfirm networks in regional clusters. , 2008, , .		1
103	Academic landscape of innovation research and national innovation system policy reformation in Japan and the United States. , 2009, , .		1
104	Visualization of nano risk research field to clarify domains year by year. Journal of Physics: Conference Series, 2009, 170, 012033.	0.3	1
105	Does topology matter? land price and road network. , 2011, , .		1
106	Comparison of indicators to detect emerging researches using time transition in quasicrystals. , 2013, , .		1
107	Actual State of the Robotic Study Changed by the Implementation in the Real World. Journal of the Robotics Society of Japan, 2013, 31, 804-815.	0.0	1
108	Serendipitous identification of fields derived from technology spillovers from patent analysis: Case study of material science. , 2015, , .		1

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109	Actors' engagement in sustainable hydrogen energy innovation: A comparative analysis. , 2015, , .		1
110	Multiscale Analysis of Supply Network at Central Region in Japan. , 2016, , .		1
111	Computer-Aided Detection: Cost Effectiveness Analysis with Learning Model. , 2017, , .		1
112	Advanced Methods: Opportunities and Potential of the Internet of Things for Solving Social Issues. Series on Technology Management, 2018, , 531-558.	0.1	1
113	Ingredients of Successful Emerging Business Ecosystems: Case of Industrial IoT Adoption. , 2018, , .		1
114	Exploration of Shared Themes Between Food Security and Internet of Things Research Through Literature-Based Discovery. Frontiers in Research Metrics and Analytics, 2021, 6, 652285.	0.9	1
115	Innovation for Sustainability in Aviation. , 2012, , 55-72.		1
116	Early Detection of Commercialization Opportunity By Analyzing Scientific and Technological Landscapes. Journal of the Japan Society of Information and Knowledge, 2010, 20, 171-176.	0.0	1
117	A Network Approach for Mapping and Classifying Shared Terminologies Between Disparate Literatures in the Social Sciences. Lecture Notes in Computer Science, 2020, , 30-40.	1.0	1
118	Collaborative Patterns, Productivity, and Research Impact in the Careers of Star Researchers in a Japanese Semiconductor Company. Frontiers in Research Metrics and Analytics, 2020, 5, 575862.	0.9	1
119	Reframing evidence in evidence-based policy making and role of bibliometrics: toward transdisciplinary scientometric research. Scientometrics, 2022, 127, 5571-5585.	1.6	1
120	A Study of Private Equity Rounds of Entrepreneurial Finance in EU: Are Buyout Funds Uninvited Guests for Startup Ecosystems?. Journal of Risk and Financial Management, 2022, 15, 236.	1.1	1
121	Patterns of collaboration in emerging fields of trans-disciplinary science: The case of sustainability science. , 2008, , .		0
122	Analyzing inter-firm networks for enhancing large-scale regional clusters. , 2009, , .		0
123	An academic landscape of patent & innovation research for policy reform. , 2010, , .		0
124	Sustainability and social innovation. , 2015, , .		0
125	‘State-of-the-art’ of ‘state-of-the-art’: Extracting science-social issues interface. , 2015, , .		0
126	Energy Policy and Perspectives. , 2016, , 107-119.		0

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127	The field of social robotics as means of technology selection to address country specific social issues. , 2016, , .		0
128	OppOrtunities and Potential of the Internet of Things for solving social issues. , 2016, , .		0
129	Identification of evolutionary characteristics of emerging technologies: The case of smart grid in Japan. , 2016, , .		0
130	Transition management of a risky technology: Case of small unmanned aerial vehicles. , 2016, , .		0
131	An Exploratory Look at Supply Chains in Japan from Multiscale Network Perspectives. The Review of Socionetwork Strategies, 2017, 11, 111-128.	1.0	0
132	Bibliometrics and Networks: Trends and Typology of Emerging Antenna Propagation Technologies. Series on Technology Management, 2018, , 279-303.	0.1	0
133	National Policy and Academic Research Trends on Nuclear Safety in Japan Since the Fukushima Disaster. , 2018, , .		0
134	Evaluation Method of Patent Scope Based on Semantic Information of Words and Dependency Structure of Patent Claims. , 2018, , .		0
135	Analysis of Research Front and Hierarchical Structure of Science Based on Modularity. Journal of the Japan Society of Information and Knowledge, 2008, 18, 189-194.	0.0	0
136	Causal Knowledge Extraction from Scientific Papers by Engineering Ontology. Journal of the Japan Society of Information and Knowledge, 2008, 18, 177-180.	0.0	0
137	Development of the Proverb Quoting System Using Natural Language Processing. Journal of the Japan Society of Information and Knowledge, 2009, 19, 74-79.	0.0	0
138	Extraction of Interdisciplinary Papers by Network Indicators. Journal of the Japan Society of Information and Knowledge, 2009, 19, 170-173.	0.0	0
139	The Structure of International Collaboration in Green Technology Research. Journal of the Japan Society of Information and Knowledge, 2010, 20, 177-182.	0.0	0
140	Science Commons and Challenge of Information and Knowledge Science. Journal of Information Processing and Management, 2010, 53, 275-277.	0.0	0
141	Innovation policy and information and knowledge science. Journal of the Japan Society of Information and Knowledge, 2011, 21, 255-258.	0.0	0
142	Memory, Record, and Archives of the Disaster. Journal of the Japan Society of Information and Knowledge, 2012, 22, 287-288.	0.0	0
143	Sustainability Research: From Science to Engineering. , 2012, , 569-570.		0
144	Detecting Research Fronts Using Weighted Citation Networks. Journal of the Japan Society of Information and Knowledge, 2012, 22, 144-149.	0.0	0

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145	Social-Scientific Study for Nuclear Energy Technology using Bibliometrics. Journal of the Japan Society of Information and Knowledge, 2012, 22, 132-137.	0.0	0
146	The structuring of action. , 2013, , 35-46.		0
147	Editorial: Advanced Analytics and Decision Making for Research Policy and Strategic Management. Frontiers in Research Metrics and Analytics, 2021, 6, 778622.	0.9	0
148	Innovation for Sustainability in Aviation. , 0, , 885-902.		0