Ichiro Sakata

List of Publications by Year
in descending order

102 papers	**1,590** citations	331259 **21** h-index	329751 **37** g-index
103 all docs	**103** docs citations	**103** times ranked	**1576** citing authors

#	Article	IF	Citations
1	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
2	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
3	Cellulose nanofiber backboned Prussian blue nanoparticles as powerful adsorbents for the selective elimination of radioactive cesium. Scientific Reports, 2016, 6, 37009.	1.6	101
4	Knowledge combination modeling: The measurement of knowledge similarity between different technological domains. Technological Forecasting and Social Change, 2015, 94, 187-201.	6.2	72
5	Link prediction in citation networks. Journal of the Association for Information Science and Technology, 2012, 63, 78-85.	2.6	69
6	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
7	Machine learning approach for finding business partners and building reciprocal relationships. Expert Systems With Applications, 2012, 39, 10402-10407.	4.4	61
8	Nitrogen-doped porous carbon monoliths from polyacrylonitrile (PAN) and carbon nanotubes as electrodes for supercapacitors. Scientific Reports, 2017, 7, 40259.	1.6	59
9	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
10	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
11	Extractive Summarization Using Multi-Task Learning with Document Classification. , 2017, , .		51
12	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
13	Multiscale analysis of interfirm networks in regional clusters. Technovation, 2010, 30, 168-180.	4.2	47
14	Detecting potential technological fronts by comparing scientific papers and patents. Foresight, 2011, 13, 51-60.	1.2	43
15	Identifying technology convergence in the field of robotics research. Technological Forecasting and Social Change, 2019, 146, 751-766.	6.2	36
16	Carbon nanotubes and manganese oxide hybrid nanostructures as high performance fiber supercapacitors. Communications Chemistry, 2018, 1, .	2.0	32
17	Thicker carbon-nanotube/manganese-oxide hybridized nanostructures as electrodes for the creation of fiber-shaped high-energy-density supercapacitors. Carbon, 2019, 154, 169-177.	5.4	32
18	Identifying and bridging networks in regional clusters. Technological Forecasting and Social Change, 2012, 79, 252-262.	6.2	30

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19	Aerogels from copper (II)-cellulose nanofibers and carbon nanotubes as absorbents for the elimination of toxic gases from air. Journal of Colloid and Interface Science, 2021, 582, 950-960.	5.0	30
20	Citation lag analysis in supply chain research. Scientometrics, 2011, 87, 221-232.	1.6	25
21	Electrochemically reduced water exerts superior reactive oxygen species scavenging activity in HT1080 cells than the equivalent level of hydrogen-dissolved water. PLoS ONE, 2017, 12, e0171192.	1.1	25
22	Detection method of emerging leading papers using time transition. Scientometrics, 2014, 101, 1515-1533.	1.6	24
23	Graphene nanosheets homogeneously incorporated in polyurethane sponge for the elimination of water-soluble organic dyes. Journal of Colloid and Interface Science, 2021, 584, 816-826.	5.0	23
24	Identifying potential technological spin-offs using hierarchical information in international patent classification. Technovation, 2021, 100, 102192.	4.2	22
25	Measuring relatedness between communities in a citation network. Journal of the Association for Information Science and Technology, 2011, 62, 1360-1369.	2.6	21
26	Detecting trends in academic research from a citation network using network representation learning. PLoS ONE, 2018, 13, e0197260.	1.1	20
27	Scientific Attention to Sustainability and SDGs: Meta-Analysis of Academic Papers. Energies, 2020, 13, 975.	1.6	19
28	Facile synthesis of graphene sheets intercalated by carbon spheres for high-performance supercapacitor electrodes. Carbon, 2020, 167, 11-18.	5.4	18
29	Morphology-controlled fabrication of a three-dimensional mesoporous poly(vinyl alcohol) monolith through the incorporation of graphene oxide. Carbon, 2016, 98, 334-342.	5.4	16
30	Improved supercapacitors by implanting ultra-long single-walled carbon nanotubes into manganese oxide domains. Journal of Power Sources, 2020, 479, 228795.	4.0	16
31	Stabilization of Prussian blue using copper sulfate for eliminating radioactive cesium from a high pH solution and seawater. Journal of Hazardous Materials, 2020, 386, 121979.	6.5	14
32	Emerging Scientific Field Detection Using Citation Networks and Topic Models—A Case Study of the Nanocarbon Field. Applied System Innovation, 2020, 3, 40.	2.7	14
33	Research management: Five years on from Fukushima. Nature, 2016, 531, 29-30.	13.7	13
34	Three dimensional porous monoliths from multi-walled carbon nanotubes and polyacrylonitrile. Carbon, 2016, 101, 377-381.	5.4	13
35	Monolayered Platinum Nanoparticles as Efficient Electrocatalysts for the Mass Production of Electrolyzed Hydrogen Water. Scientific Reports, 2020, 10, 10126.	1.6	11
36	Identifying Emerging Research Related to Solar Cells Field Using a Machine Leaning Approach. Journal of Sustainable Development of Energy, Water and Environment Systems, 2016, 4, 418-429.	0.9	10

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37	Comparative Examination of Network Clustering Methods for Extracting Community Structures of a City From Public Transportation Smart Card Data. IEEE Access, 2019, 7, 53377-53391.	2.6	10
38	Dense and influential core promotion of daily viral information spread in political echo chambers. Scientific Reports, 2021, 11, 7491.	1.6	9
39	Preparation of novel tetrahedral Ag3PO4 crystals and the sunlight-responsive photocatalytic properties using graphene oxide as the template. Carbon, 2017, 119, 522-526.	5.4	8
40	Business partner selection considering supply-chain centralities and causalities. Supply Chain Forum, 2021, 22, 74-85.	2.7	8
41	Detecting emerging research fronts in regenerative medicine by citation network analysis of scientific publications. , 2009, , .		7
42	Evaluating â€œstartup readinessâ€•for researchers: case studies of research-based startups with biopharmaceutical research topics. Heliyon, 2020, 6, e04160.	1.4	7
43	Academic landscape of hydropower: citation-analysis-based method and its application. International Journal of Energy Technology and Policy, 2016, 12, 84.	0.1	6
44	Electrochemistry of rechargeable aqueous zinc/zinc-sulphate/manganese-oxide batteries and methods for preparation of high-performance cathodes. Journal of Materials Chemistry A, 2022, 10, 15415-15426.	5.2	6
45	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
46	Representation learning for geospatial areas using large-scale mobility data from smart card. , 2016, , .		5
47	Large-scale analysis of delayed recognition using sleeping beauty and the prince. Applied Network Science, 2021, 6, 48.	0.8	5
48	Categorization of mergers and acquisitions using transaction network features. Research in International Business and Finance, 2021, 57, 101421.	3.1	5
49	Unsupervised Abstractive Opinion Summarization by Generating Sentences with Tree-Structured Topic Guidance. Transactions of the Association for Computational Linguistics, 2021, 9, 945-961.	3.2	5
50	Bibliometric Analysis of International Collaboration in Wind and Solar Energy. Journal of Sustainable Development of Energy, Water and Environment Systems, 2013, 1, 187-198.	0.9	5
51	TQM organizational development for a global manufacturer. , 2011, , .		4
52	Detection and introduction of emerging technologies for green buildings in Thailand. International Journal of Energy Technology and Policy, 2016, 12, 2.	0.1	4
53	Energy Efficiency Road Mapping in Three Future Scenarios for Lao PDR. Journal of Sustainable Development of Energy, Water and Environment Systems, 2013, 1, 172-186.	0.9	4
54	Measuring "Start-Up Readiness" of Scientific Research-Based Start-Ups Using Analysis of Citation Networks: Case Study of CRISPR-Cas9. , 2017, , .		3

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55	Cross-Domain Academic Paper Recommendation by Semantic Linkage Approach Using Text Analysis and Recurrent Neural Networks. , 2017, , .		3
56	Appliance Diffusion Model for Energy Efficiency Standards and Labeling Evaluation in the Capital of Lao Pdr. Journal of Sustainable Development of Energy, Water and Environment Systems, 2015, 3, 269-281.	0.9	3
57	Structure of international research collaboration in wind and solar energy. , 2011, , .		2
58	Top researcher change by governmental support in Japan. , 2015, , .		2
59	Identifying Technology Advancements and Their Linkages in the Field of Robotics Research. , 2017, , .		2
60	Measurement of Opportunity Cost of Travel Time for Predicting Future Residential Mobility Based on the Smart Card Data of Public Transportation. ISPRS International Journal of Geo-Information, 2018, 7, 416.	1.4	2
61	Detecting Emerging Complex Technological Fields in Robotics. , 2019, , .		2
62	Classifying Sleeping Beauties and Princes Using Citation Rarity. Studies in Computational Intelligence, 2021, , 308-318.	0.7	2
63	Metabolism of Inter-Firm Transactions in Regional Networks. , 2017, , .		2
64	Structure of interfirm networks in regional clusters. , 2008, , .		1
65	Academic landscape of innovation research and national innovation system policy reformation in Japan and the United States. , 2009, , .		1
66	Analysis of scientific research structure in Singapore using bibliometrics and network analysis for understanding their characteristics of R&D: A case study of biomedicai field. , 2014, , .		1
67	Serendipitous identification of fields derived from technology spillovers from patent analysis: Case study of material science. , 2015, , .		1
68	Researcher qualitative change by governmental support in Japan. , 2016, , .		1
69	Detecting candidate combinations of the keywords organ - material -technology in regenerative medicine. , 2016, , .		1
70	Knowledge Structuring Tools for Decision Support Service: An Overview of Citation-Based Approach. Service Science: Research and Innovations in the Service Economy, 2016, , 261-276.	1.1	1
71	Assessing "Start-up Readiness" for Research Topics and Researchers: Case Studies of Research-Based Start-Ups in the Biopharmaceutical Domain. , 2018, , .		1
72	Inter-Domain Linking of Problems in Science and Technology through a Bibliometric Approach. , 2019, , .		1

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73	Analysis of Mergers and Acquisitions Trends in the Semiconductor Industry with the Technology Perspective. , 2019, , .		1
74	Evaluating Nodes of Latent Mediators in Heterogeneous Communities. Scientific Reports, 2020, 10, 8456.	1.6	1
75	Discovering Interdisciplinarily Spread Knowledge in the Academic Literature. IEEE Access, 2021, 9, 124142-124151.	2.6	1
76	Identifying Affiliation Effects on Innovation Enhancement. , 2019, , .		1
77	Which Is More Helpful in Finding Scientific Papers to Be Top-cited in the Future: Content or Citations? Case Analysis in the Field of Solar Cells 2009. , 2021, , .		1
78	Do R&D and IT tax credits work? Evaluation of the Japanese tax reform. International Journal of Technology Management, 2005, 32, 277.	0.2	0
79	An academic landscape of patent & innovation research for policy reform. , 2010, , .		0
80	Bibliometric analysis of power grid research: Identifying knowledge domain. , 2012, , .		0
81	International flows of Japanese and world's researchers. , 2015, , .		0
82	Detecting structural changes in the nanocarbon domain based on the time distribution of text information of academic papers. , 2016, , .		0
83	A road to social innovation. , 2016, , .		0
84	Prediction of emerging papers in nanocarbon materials-related research using a citation network. , 2016, , .		0
85	Positioning social entrepreneurship research in the field of entrepreneurship research. , 2016, , .		0
86	New bibliometric analysis of research institutions network. , 2016, , .		0
87	Time-Series Analysis on the Fields of Entrepreneurship Research. , 2017, , .		0
88	New Science and Technology Policy Evaluation Using Bibliometric Approach. , 2017, , .		0
89	Detection of Emerging Technologies for Field Effect Transistors: A Citation-Based Analysis. , 2017, , .		0
90	Prediction of Business Partners Using an N-Gram-Based Approach that Combines a Network Model and Linear Model of a Supply Chain. , 2017, , .		0

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91	Identifying Influencers of Corporate Performance in Interfirm Networks. , 2017, , .		0
92	Analysis of Technology Convergence in Robotics and Technological Portfolios among Robot-Related Organizations. , 2018, , .		0
93	Data Storage Cost Reduction by Decluttering Image and Video Data: Case Study of Video File Decluttering. , 2018, , .		0
94	Cross-border power trade with Myanmar: barriers and their removal from the Thai's perspective. International Journal of Public Policy, 2018, 14, 30.	0.1	0
95	Co-word Analysis to Detect Possible Combinations for Composite Materials. , 2018, , .		0
96	Recategorizing Interdisciplinary Articles using Natural Language Processing and Machine/Deep Learning. , 2018, , .		0
97	Latent Pattern Extraction and Factorization of Firm Bankruptcies and Metabolism in Japan. , 2019, , .		0
98	Synchronous Mobility Analysis for Institutional Evaluation. Journal of the Japan Society of Information and Knowledge, 2021, 30, 467-470.	0.0	0
99	Communication Based on Unilateral Preference on Twitter: Internet Luring in Japan. Lecture Notes in Computer Science, 2018, , 54-66.	1.0	0
100	Researchers' â€œStartup Readinessâ€•in the Biopharmaceutical Domain Assessed Using Logistic Regression for Features of Their Papers, Patents, Institutes, and Nations. , 2019, , .		0
101	Unsupervised Joint Learning for Headline Generation and Discourse Structure of Reviews. Advances in Intelligent Systems and Computing, 2020, , 139-149.	0.5	0
102	Knowledge formation of MPEG: Analysis using bibliographic clustering of citation networks. Synthesiology, 2021, 2021, 1-17.	0.2	0