

# So Young Sohn

## 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.

121  
papers

2,186  
citations

26  
h-index

40  
g-index

124  
ext. papers

2,642  
ext. citations

5  
avg, IF

5.91  
L-index

#	Paper	IF	Citations
121	A credit scoring model based on the Myers-Briggs type indicator in online peer-to-peer lending.. <i>Financial Innovation</i> , <b>2022</b> , 8, 42	5.7	0
120	Cost-benefit model for multi-generational high-technology products to compare sequential innovation strategy with quality strategy. <i>PLoS ONE</i> , <b>2021</b> , 16, e0249124	3.7	0
119	Mapping and identifying technological coepetition: a multi-level approach. <i>Scientometrics</i> , <b>2021</b> , 126, 5797	3	1
118	Patent data based search framework for IT R&D employees for convergence technology. <i>Scientometrics</i> , <b>2021</b> , 126, 5687	3	0
117	Predicting future technological convergence patterns based on machine learning using link prediction. <i>Scientometrics</i> , <b>2021</b> , 126, 5413-5429	3	1
116	Patenting trends in biometric technology of the Big Five patent offices. <i>World Patent Information</i> , <b>2021</b> , 65, 102040	1.4	0
115	Graph convolutional network-based credit default prediction utilizing three types of virtual distances among borrowers. <i>Expert Systems With Applications</i> , <b>2021</b> , 168, 114411	7.8	8
114	Recommendation system for technology convergence opportunities based on self-supervised representation learning. <i>Scientometrics</i> , <b>2021</b> , 126, 1-25	3	9
113	Recommending blue ocean technologies for subcontractors: A framework based on business reports of prime contractors and patents. <i>PLoS ONE</i> , <b>2021</b> , 16, e0256157	3.7	
112	Evaluating borrowers' default risk with a spatial probit model reflecting the distance in their relational network.. <i>PLoS ONE</i> , <b>2021</b> , 16, e0261737	3.7	1
111	Machine-learning-based deep semantic analysis approach for forecasting new technology convergence. <i>Technological Forecasting and Social Change</i> , <b>2020</b> , 157, 120095	9.5	22
110	Early detection of valuable patents using a deep learning model: Case of semiconductor industry. <i>Technological Forecasting and Social Change</i> , <b>2020</b> , 158, 120146	9.5	19
109	Hybrid neural network with cost-sensitive support vector machine for class-imbalanced multimodal data. <i>Neural Networks</i> , <b>2020</b> , 130, 176-184	9.1	11
108	Patent-based framework for assisting entrepreneurial firmsR&D partner selection: Leveraging their limited resources and managing the tension between learning and protection. <i>Journal of Engineering and Technology Management - JET-M</i> , <b>2020</b> , 57, 101575	3.7	8
107	Comparing spatial patterns of sole proprietorship and corporate payday lenders in Seoul, Korea. <i>Annals of Regional Science</i> , <b>2020</b> , 64, 215-236	1.1	
106	Recommendation of startups as technology cooperation candidates from the perspectives of similarity and potential: A deep learning approach. <i>Decision Support Systems</i> , <b>2020</b> , 130, 113229	5.6	13
105	Patent clustering and network analyses to explore nuclear waste management technologies. <i>Energy Policy</i> , <b>2020</b> , 146, 111794	7.2	7

104	Multitask learning for health condition identification and remaining useful life prediction: deep convolutional neural network approach. <i>Journal of Intelligent Manufacturing</i> , <b>2020</b> , 1	6.7	18
103	Optimal location-allocation model for the installation of rooftop sports facilities in metropolitan areas. <i>European Sport Management Quarterly</i> , <b>2020</b> , 20, 189-204	1.9	1
102	Identifying innovation in socialist countries through patent analysis focused on Cuba and Vietnam. <i>World Patent Information</i> , <b>2019</b> , 59, 101898	1.4	4
101	Graph convolutional network approach applied to predict hourly bike-sharing demands considering spatial, temporal, and global effects. <i>PLoS ONE</i> , <b>2019</b> , 14, e0220782	3.7	9
100	Dynamics of Topics in Antimalarial Patents: Comparison Between the USPTO and SIPO <b>2019</b> , 309-321		
99	Recommendation of feeder bus routes using neural network embedding-based optimization. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2019</b> , 126, 329-341	3.7	6
98	Global stock market investment strategies based on financial network indicators using machine learning techniques. <i>Expert Systems With Applications</i> , <b>2019</b> , 117, 228-242	7.8	49
97	Discovering emerging business ideas based on crowdfunded software projects. <i>Decision Support Systems</i> , <b>2019</b> , 116, 102-113	5.6	7
96	Engineering graduate students' views on the effective ownership of academic patents. <i>Journal of Technology Transfer</i> , <b>2019</b> , 44, 132-154	4.4	3
95	Disparities in exploitative and exploratory patenting performance across regions: Focusing on the roles of agglomeration externalities. <i>Papers in Regional Science</i> , <b>2019</b> , 98, 241-263	1.8	5
94	Term discrimination for text search tasks derived from negative binomial distribution. <i>Information Processing and Management</i> , <b>2018</b> , 54, 370-379	6.3	4
93	Utilizing mobile phone-based floating population data to measure the spatial accessibility to public transit. <i>Applied Geography</i> , <b>2018</b> , 92, 123-130	4.4	28
92	A novel approach to explore patent development paths for subfield technologies. <i>Journal of the Association for Information Science and Technology</i> , <b>2018</b> , 69, 410-419	2.7	10
91	Forecasting new product diffusion using both patent citation and web search traffic. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194723	3.7	4
90	A novel decomposition analysis of green patent applications for the evaluation of R&D efforts to reduce CO2 emissions from fossil fuel energy consumption. <i>Journal of Cleaner Production</i> , <b>2018</b> , 193, 290-299	10.3	50
89	Optimal location selection for the installation of urban green roofs considering honeybee habitats along with socio-economic and environmental effects. <i>Journal of Environmental Management</i> , <b>2017</b> , 189, 125-133	7.9	22
88	Competing risk model for predicting stabilization period of university spin-off ventures. <i>International Entrepreneurship and Management Journal</i> , <b>2017</b> , 13, 777-796	4.9	5
87	Exploring the effect of dual use on the value of military technology patents based on the renewal decision. <i>Scientometrics</i> , <b>2017</b> , 112, 1203-1227	3	12

86	Taxi vacancy duration: a regression analysis. <i>Transportation Planning and Technology</i> , <b>2017</b> , 40, 771-795	1.6	8
85	Analyzing research trends in personal information privacy using topic modeling. <i>Computers and Security</i> , <b>2017</b> , 67, 244-253	4.9	37
84	Comparison of technology efficiency for CO2 emissions reduction among European countries based on DEA with decomposed factors. <i>Journal of Cleaner Production</i> , <b>2017</b> , 151, 109-120	10.3	56
83	Quantitative analysis of a half-century of K-Pop songs: Association rule analysis of lyrics and social network analysis of singers and composers. <i>Journal of Popular Music Studies</i> , <b>2017</b> , 29, e12225	0.1	3
82	An optimization approach for the placement of bicycle-sharing stations to reduce short car trips: An application to the city of Seoul. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2017</b> , 105, 154-166	3.7	35
81	Identifying the trends in wound-healing patents for successful investment strategies. <i>PLoS ONE</i> , <b>2017</b> , 12, e0174203	3.7	14
80	What makes the first forward citation of a patent occur earlier?. <i>Scientometrics</i> , <b>2017</b> , 113, 279-298	3	15
79	Demand Forecasting for Heavy-Duty Diesel Engines Considering Emission Regulations. <i>Sustainability</i> , <b>2017</b> , 9, 166	3.6	6
78	Firms' Negative Perceptions on Patents, Technology Management Strategies, and Subsequent Performance. <i>Sustainability</i> , <b>2017</b> , 9, 440	3.6	2
77	Technology Credit Scoring Based on a Quantification Method. <i>Sustainability</i> , <b>2017</b> , 9, 1057	3.6	8
76	A Credit Scoring Model for SMEs Based on Accounting Ethics. <i>Sustainability</i> , <b>2017</b> , 9, 1588	3.6	6
75	Identifying Emerging Trends of Financial Business Method Patents. <i>Sustainability</i> , <b>2017</b> , 9, 1670	3.6	8
74	A Cost-Benefit Analysis to Assess the Effectiveness of Frontal Center Curtain Airbag. <i>Sustainability</i> , <b>2017</b> , 9, 1745	3.6	
73	Patent portfolio-based indicators to evaluate the commercial benefits of national plant genetic resources. <i>Ecological Indicators</i> , <b>2016</b> , 70, 43-52	5.8	16
72	Adaptive conjoint analysis for the vitalisation of angel investments by entrepreneurs. <i>Technology Analysis and Strategic Management</i> , <b>2016</b> , 28, 677-690	3.2	4
71	Technological convergence in standards for information and communication technologies. <i>Technological Forecasting and Social Change</i> , <b>2016</b> , 106, 1-10	9.5	49
70	Evaluating the patenting activities of pharmaceutical research organizations based on new technology indices. <i>Journal of Informetrics</i> , <b>2016</b> , 10, 74-81	3.1	7
69	Patent Network Analysis and Quadratic Assignment Procedures to Identify the Convergence of Robot Technologies. <i>PLoS ONE</i> , <b>2016</b> , 11, e0165091	3.7	26

68	Fuzzy analytic hierarchy process applied to technology credit scorecard considering entrepreneurs' psychological and behavioral attributes. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 30, 2349-2364	1.6	10
67	Beyond absorptive capacity in open innovation process: the relationships between openness, capacities and firm performance. <i>Technology Analysis and Strategic Management</i> , <b>2016</b> , 28, 1009-1028	3.2	61
66	Technology credit scoring model with fuzzy logistic regression. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 43, 150-158	7.5	71
65	Quantifying technology industry spillover effects based on patent citation network analysis of unmanned aerial vehicle (UAV). <i>Technological Forecasting and Social Change</i> , <b>2016</b> , 105, 140-157	9.5	30
64	Patent valuation based on text mining and survival analysis. <i>Journal of Technology Transfer</i> , <b>2015</b> , 40, 821-839	4.4	35
63	A new cost of ownership model for the acquisition of technology complying with environmental regulations. <i>Journal of Cleaner Production</i> , <b>2015</b> , 100, 269-277	10.3	10
62	Trend analysis of academic research and technical development pertaining to gas hydrates. <i>Scientometrics</i> , <b>2015</b> , 105, 905-920	3	6
61	Predicting the pattern of technology convergence using big-data technology on large-scale triadic patents. <i>Technological Forecasting and Social Change</i> , <b>2015</b> , 100, 317-329	9.5	99
60	Patent network based conjoint analysis for wearable device. <i>Technological Forecasting and Social Change</i> , <b>2015</b> , 101, 338-346	9.5	22
59	Patent-based QFD framework development for identification of emerging technologies and related business models: A case of robot technology in Korea. <i>Technological Forecasting and Social Change</i> , <b>2015</b> , 94, 44-64	9.5	39
58	Product failure pattern analysis from warranty data using association rule and Weibull regression analysis: A case study. <i>Reliability Engineering and System Safety</i> , <b>2015</b> , 133, 176-183	6.3	25
57	Identifying patterns in rare earth element patents based on text and data mining. <i>Scientometrics</i> , <b>2015</b> , 102, 389-410	3	19
56	Stress test for a technology credit guarantee fund based on survival analysis. <i>Journal of the Operational Research Society</i> , <b>2015</b> , 66, 463-475	2	9
55	Analyzing technological convergence trends in a business ecosystem. <i>Industrial Management and Data Systems</i> , <b>2015</b> , 115, 718-739	3.6	18
54	Behavioral technology credit scoring model with time-dependent covariates for stress test. <i>European Journal of Operational Research</i> , <b>2015</b> , 242, 910-919	5.6	6
53	Topic Model Analysis of Research Trend on Spatial Big Data. <i>Journal of Korean Institute of Industrial Engineers</i> , <b>2015</b> , 41, 64-73	0.8	7
52	Updating a credit-scoring model based on new attributes without realization of actual data. <i>European Journal of Operational Research</i> , <b>2014</b> , 234, 119-126	5.6	21
51	Effects of the matching fund program on IPO and bankruptcy of SMEs in Korea. <i>Small Business Economics</i> , <b>2014</b> , 42, 117-129	5.3	4

50	Patent analysis to identify shale gas development in China and the United States. <i>Energy Policy</i> , <b>2014</b> , 74, 111-115	7.2	23
49	Optimization strategy of credit line management for credit card business. <i>Computers and Operations Research</i> , <b>2014</b> , 48, 81-88	4.6	5
48	Design guidelines for the Dashilar, Beijing Open Green Space Redevelopment Project. <i>Urban Forestry and Urban Greening</i> , <b>2014</b> , 13, 385-396	5.4	5
47	Balanced Scorecard Based Performance Analysis of Accreditation for Engineering Education. <i>Industrial Engineering and Management Systems</i> , <b>2014</b> , 13, 67-86	2.5	5
46	Behavioral credit scoring model for technology-based firms that considers uncertain financial ratios obtained from relationship banking. <i>Small Business Economics</i> , <b>2013</b> , 41, 931-943	5.3	22
45	Peer group analysis for introducing weather derivatives for a city. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 5680-5687	7.8	4
44	Valuing academic patents and intellectual properties: Different perspectives of willingness to pay and sell. <i>Technovation</i> , <b>2013</b> , 33, 13-24	7.9	18
43	Behavior scoring model for coalition loyalty programs by using summary variables of transaction data. <i>Expert Systems With Applications</i> , <b>2013</b> , 40, 1564-1570	7.8	18
42	Decision tree-based technology credit scoring for start-up firms: Korean case. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 4007-4012	7.8	25
41	Stock fraud detection using peer group analysis. <i>Expert Systems With Applications</i> , <b>2012</b> , 39, 8986-8992	7.8	31
40	Conjoint analysis of R&D contract agreements for industry-funded university research. <i>Journal of Technology Transfer</i> , <b>2012</b> , 37, 532-549	4.4	14
39	. <i>IEEE Transactions on Engineering Management</i> , <b>2011</b> , 58, 189-198	2.6	9
38	Forecasting changes in Korea Composite Stock Price Index (KOSPI) using association rules. <i>Expert Systems With Applications</i> , <b>2011</b> , 38, 9046-9049	7.8	22
37	Quantification method analysis of the relationship between occupant injury and environmental factors in traffic accidents. <i>Accident Analysis and Prevention</i> , <b>2011</b> , 43, 342-51	6.1	6
36	Investigating the relationship between ammunition stockpile information and subsequent performance. <i>Reliability Engineering and System Safety</i> , <b>2010</b> , 95, 426-430	6.3	1
35	Support vector machines for default prediction of SMEs based on technology credit. <i>European Journal of Operational Research</i> , <b>2010</b> , 201, 838-846	5.6	124
34	Competing Risk Model for Technology Credit Fund for Small and Medium-Sized Enterprises. <i>Journal of Small Business Management</i> , <b>2010</b> , 48, 378-394	3	13
33	Economic Evaluation Model for International Standardization of Technology. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2009</b> , 58, 657-665	5.2	5

32	Optimal pricing for mobile manufacturers in competitive market using genetic algorithm. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 3448-3453	7.8	14
31	Sequential association rules for forecasting failure patterns of aircrafts in Korean airforce. <i>Expert Systems With Applications</i> , <b>2009</b> , 36, 1129-1133	7.8	14
30	Cost of ownership model for the RFID logistics system applicable to u-city. <i>European Journal of Operational Research</i> , <b>2009</b> , 194, 406-417	5.6	35
29	Impact analysis for national R&D funding in science and technology using quantification method II. <i>Research Policy</i> , <b>2009</b> , 38, 1534-1544	7.5	15
28	Competing risk model for mobile phone service. <i>Technological Forecasting and Social Change</i> , <b>2008</b> , 75, 1416-1422	9.5	5
27	CASE-BASED REASONING FOR PREDICTING MULTIPERIOD FINANCIAL PERFORMANCES OF TECHNOLOGY-BASED SMEs. <i>Applied Artificial Intelligence</i> , <b>2008</b> , 22, 602-615	2.3	5
26	Technology scoring model for reflecting evaluator's perception within confidence limits. <i>European Journal of Operational Research</i> , <b>2008</b> , 184, 981-989	5.6	14
25	Searching customer patterns of mobile service using clustering and quantitative association rule. <i>Expert Systems With Applications</i> , <b>2008</b> , 34, 1070-1077	7.8	35
24	Hierarchical forecasting based on AR-GARCH model in a coherent structure. <i>European Journal of Operational Research</i> , <b>2007</b> , 176, 1033-1040	5.6	13
23	Random effects Weibull regression model for occupational lifetime. <i>European Journal of Operational Research</i> , <b>2007</b> , 179, 124-131	5.6	17
22	Random effects logistic regression model for default prediction of technology credit guarantee fund. <i>European Journal of Operational Research</i> , <b>2007</b> , 183, 472-478	5.6	30
21	Modelling and estimating heavy-tailed non-homogeneous correlated queues: Pareto-inverse gamma HGLM with covariates. <i>Journal of Applied Statistics</i> , <b>2006</b> , 33, 417-425	1	4
20	Reject inference in credit operations based on survival analysis. <i>Expert Systems With Applications</i> , <b>2006</b> , 31, 26-29	7.8	18
19	Random effects model for the reliability management of modules of a fighter aircraft. <i>Reliability Engineering and System Safety</i> , <b>2006</b> , 91, 433-437	6.3	10
18	Cost of ownership model for a CRM system. <i>Science of Computer Programming</i> , <b>2006</b> , 60, 68-81	1.1	9
17	Improved technology scoring model for credit guarantee fund. <i>Expert Systems With Applications</i> , <b>2005</b> , 28, 327-331	7.8	35
16	Managing loan customers using misclassification patterns of credit scoring model. <i>Expert Systems With Applications</i> , <b>2004</b> , 26, 567-573	7.8	37
15	Decision Tree based on data envelopment analysis for effective technology commercialization. <i>Expert Systems With Applications</i> , <b>2004</b> , 26, 279-284	7.8	51

14	Multigeneration diffusion model for economic assessment of new technology. <i>Technological Forecasting and Social Change</i> , <b>2003</b> , 70, 251-264	9.5	31
13	Structural equation model for predicting technology commercialization success index (TCSI). <i>Technological Forecasting and Social Change</i> , <b>2003</b> , 70, 885-899	9.5	67
12	Genetic algorithms applied to optimal tolerance levels of multiattribute inspection errors. <i>IEEE Transactions on Electronics Packaging Manufacturing</i> , <b>2003</b> , 26, 338-344		6
11	Cost of ownership model for inspection of multiple quality attributes. <i>IEEE Transactions on Semiconductor Manufacturing</i> , <b>2003</b> , 16, 565-571	2.6	14
10	Pattern recognition for road traffic accident severity in Korea. <i>Ergonomics</i> , <b>2001</b> , 44, 107-17	2.9	76
9	Multivariate meta analysis with potentially correlated marketing study results. <i>Naval Research Logistics</i> , <b>2000</b> , 47, 500-510	1.5	19
8	Meta analysis with potentially correlated marketing study results. <i>Journal of Statistical Computation and Simulation</i> , <b>2000</b> , 65, 95-107	0.9	1
7	Meta analysis of classification algorithms for pattern recognition. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>1999</b> , 21, 1137-1144	13.3	76
6	Meta-analysis on total braking time. <i>Ergonomics</i> , <b>1998</b> , 41, 1129-40	2.9	29
5	Statistical Analysis of Environmental Effects on Reliability Decay of Missiles: A Case Study. <i>IIE Transactions</i> , <b>1996</b> , 28, 995-1002		8
4	Empirical Bayesian analysis for traffic intensity:M/M/1 queues with covariates. <i>Queueing Systems</i> , <b>1996</b> , 22, 383-401	1.7	15
3	Recommendation of investment portfolio for peer-to-peer lending with additional consideration of bidding period. <i>Annals of Operations Research</i> ,	3.2	2
2	Perceived importance of intellectual property protection methods by Korean SMEs involved in product innovation and their value appropriation. <i>Journal of Small Business Management</i> ,1-27	3	0
1	Novel method for detection of mixed-type defect patterns in wafer maps based on a single shot detector algorithm. <i>Journal of Intelligent Manufacturing</i> ,1	6.7	2