

# Sungjoo Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

89  
papers

4,332  
citations

159585

30  
h-index

114465

63  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2728  
citing authors

#	ARTICLE	IF	CITATIONS
1	Open innovation in SMEs—An intermediated network model. <i>Research Policy</i> , 2010, 39, 290-300.	6.4	1,098
2	An approach to discovering new technology opportunities: Keyword-based patent map approach. <i>Technovation</i> , 2009, 29, 481-497.	7.8	333
3	Customization of technology roadmaps according to roadmapping purposes: Overall process and detailed modules. <i>Technological Forecasting and Social Change</i> , 2005, 72, 567-583.	11.6	198
4	Business planning based on technological capabilities: Patent analysis for technology-driven roadmapping. <i>Technological Forecasting and Social Change</i> , 2009, 76, 769-786.	11.6	185
5	Customer satisfaction factors of mobile commerce in Korea. <i>Internet Research</i> , 2008, 18, 313-335.	4.9	152
6	Keyword selection and processing strategy for applying text mining to patent analysis. <i>Expert Systems With Applications</i> , 2015, 42, 4348-4360.	7.6	142
7	Using patent information for designing new product and technology: keyword based technology roadmapping. <i>R and D Management</i> , 2008, 38, 169-188.	5.3	136
8	Patent databases for innovation studies: A comparative analysis of USPTO, EPO, JPO and KIPO. <i>Technological Forecasting and Social Change</i> , 2015, 92, 332-345.	11.6	122
9	Technology roadmapping for R&D planning: The case of the Korean parts and materials industry. <i>Technovation</i> , 2007, 27, 433-445.	7.8	103
10	Patterns of technological innovation and evolution in the energy sector: A patent-based approach. <i>Energy Policy</i> , 2013, 59, 415-432.	8.8	93
11	Technology roadmapping for technology-based product—service integration: A case study. <i>Journal of Engineering and Technology Management - JET-M</i> , 2011, 28, 128-146.	2.7	88
12	The idiosyncrasy and dynamism of technological innovation across industries: patent citation analysis. <i>Technology in Society</i> , 2005, 27, 471-485.	9.4	77
13	Identifying and evaluating strategic partners for collaborative R&D: Index-based approach using patents and publications. <i>Technovation</i> , 2013, 33, 211-224.	7.8	76
14	Development of an integrated product—service roadmap with QFD. <i>Journal of Service Management</i> , 2008, 19, 621-638.	2.0	72
15	Discovering new technology opportunities based on patents: Text-mining and F-term analysis. <i>Technovation</i> , 2017, 60-61, 1-14.	7.8	66
16	Managing uncertainty to improve decision-making in NPD portfolio management with a fuzzy expert system. <i>Expert Systems With Applications</i> , 2012, 39, 9868-9885.	7.6	64
17	ICT Co-evolution and Korean ICT strategy—An analysis based on patent data. <i>Telecommunications Policy</i> , 2009, 33, 253-271.	5.3	62
18	Technology clustering based on evolutionary patterns: The case of information and communications technologies. <i>Technological Forecasting and Social Change</i> , 2011, 78, 953-967.	11.6	59

#	ARTICLE	IF	CITATIONS
19	How industrial convergence happens: A taxonomical approach based on empirical evidences. Technological Forecasting and Social Change, 2016, 107, 112-120.	11.6	54
20	Forecasting and identifying multi-technology convergence based on patent data: the case of IT and BT industries in 2020. Scientometrics, 2017, 111, 47-65.	3.0	54
21	Identifying new business areas using patent information: A DEA and text mining approach. Expert Systems With Applications, 2011, 38, 2933-2941.	7.6	50
22	Identifying emerging core technologies for the future: Case study of patents published by leading telecommunication organizations. Telecommunications Policy, 2016, 40, 956-970.	5.3	49
23	Identifying new business opportunities from competitor intelligence: An integrated use of patent and trademark databases. Technological Forecasting and Social Change, 2017, 119, 170-183.	11.6	49
24	How to design and utilize online customer center to support new product concept generation. Expert Systems With Applications, 2011, 38, 10638-10647.	7.6	47
25	Antecedents of open innovation at the project level: empirical analysis of Korean firms. R and D Management, 2015, 45, 411-439.	5.3	46
26	Identifying promising technologies using patents: A retrospective feature analysis and a prospective needs analysis on outlier patents. Technological Forecasting and Social Change, 2018, 128, 118-132.	11.6	46
27	Development and application of a keyword-based knowledge map for effective R&D planning. Scientometrics, 2010, 85, 803-820.	3.0	45
28	Deriving technology intelligence from patents: Preposition-based semantic analysis. Journal of Informetrics, 2018, 12, 217-236.	2.9	43
29	The customisation framework for roadmapping product-service integration. Service Business, 2011, 5, 213-236.	4.2	40
30	Modeling and analyzing technology innovation in the energy sector: Patent-based HMM approach. Computers and Industrial Engineering, 2012, 63, 564-577.	6.3	33
31	Patent analysis for promoting technology transfer in multi-technology industries: the Korean aerospace industry case. Journal of Technology Transfer, 2012, 37, 355-374.	4.3	32
32	Inter-technology networks to support innovation strategy: An analysis of Korea's new growth engines. Innovation: Management, Policy and Practice, 2010, 12, 88-104.	3.9	31
33	An empirical analysis on purposes, drivers and activities of technology opportunity discovery: the case of Korean SMEs in the manufacturing sector. R and D Management, 2016, 46, 13-35.	5.3	29
34	Technology development strategies and policy support for the solar energy industry under technological turbulence. Energy Policy, 2019, 124, 206-214.	8.8	28
35	Open innovation at the national level: Towards a global innovation system. Technological Forecasting and Social Change, 2020, 151, 119842.	11.6	27
36	Investigating technology opportunities: the use of SAOX analysis. Scientometrics, 2019, 118, 45-70.	3.0	26

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37	User-Centric Service Map for Identifying New Service Opportunities from Potential Needs: A Case of App Store Applications. <i>Creativity and Innovation Management</i> , 2013, 22, 241-264.	3.3	24
38	Technology assessment model for sustainable development of LNG terminals. <i>Journal of Cleaner Production</i> , 2018, 172, 927-937.	9.3	24
39	Open Innovation Projects in SMEs as an Engine for Sustainable Growth. <i>Sustainability</i> , 2016, 8, 146.	3.2	22
40	Applying technology roadmaps in project selection and planning. <i>International Journal of Quality and Reliability Management</i> , 2008, 25, 39-51.	2.0	19
41	What constitutes a promising technology in the era of open innovation? An investigation of patent potential from multiple perspectives. <i>Technological Forecasting and Social Change</i> , 2020, 157, 120046.	11.6	19
42	Identifying emerging technologies to envision a future innovation ecosystem: A machine learning approach to patent data. <i>Scientometrics</i> , 2021, 126, 5431-5476.	3.0	18
43	Patterns of innovation in digital content services: The case of App Store applications. <i>Innovation: Management, Policy and Practice</i> , 2012, 14, 540-556.	3.9	17
44	Using a design structure matrix to support technology roadmapping for product-service systems. <i>Technology Analysis and Strategic Management</i> , 2018, 30, 337-350.	3.5	16
45	A systematic approach to prioritizing R&D projects based on customer-perceived value using opinion mining. <i>Technovation</i> , 2020, 98, 102164.	7.8	16
46	From stones to jewellery: Investigating technology opportunities from expired patents. <i>Technovation</i> , 2021, 103, 102235.	7.8	16
47	Triggering navigators for innovative system design: The case of lab-on-a-chip technology. <i>Expert Systems With Applications</i> , 2012, 39, 12451-12459.	7.6	15
48	Development of new technology-based services. <i>Service Industries Journal</i> , 2016, 36, 200-222.	8.3	14
49	How to improve a technology evaluation model: A data-driven approach. <i>Technovation</i> , 2018, 72-73, 1-12.	7.8	14
50	Characterizing Maturity Levels for Organization-Wide Roadmapping Implementation. <i>IEEE Engineering Management Review</i> , 2020, 48, 133-143.	1.3	14
51	Service Technology: Definition and Characteristics Based on a Patent Database. <i>Service Science</i> , 2017, 9, 147-166.	1.3	12
52	Opportunity-driven technology roadmapping: The case of 5G mobile services. <i>Technological Forecasting and Social Change</i> , 2021, 163, 120452.	11.6	11
53	Technological trend mining: identifying new technology opportunities using patent semantic analysis. <i>Information Processing and Management</i> , 2022, 59, 102993.	8.6	11
54	Using Patent Information for New Product Development: Keyword-Based Technology Roadmapping Approach. , 2006, , .		10

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55	Essential patent portfolios to monitor technology standardization strategies: Case of LTE-A technologies. <i>Journal of Engineering and Technology Management - JET-M</i> , 2017, 45, 18-36.	2.7	10
56	R&D Project Selection Incorporating Customer-Perceived Value and Technology Potential: The Case of the Automobile Industry. <i>Sustainability</i> , 2017, 9, 1918.	3.2	10
57	Integrating fuzzy-set theory into technology roadmap development to support decision-making. <i>Technology Analysis and Strategic Management</i> , 2019, 31, 447-461.	3.5	10
58	Analysis of document-mining techniques and tools for technology intelligence: discovering knowledge from technical documents. <i>International Journal of Technology Management</i> , 2012, 60, 130.	0.5	9
59	A hybrid Bass-Markov model for the diffusion of a dual-type device-based telecommunication service: The case of WiBro service in Korea. <i>Computers and Industrial Engineering</i> , 2015, 79, 85-94.	6.3	9
60	Towards robust technology roadmapping: How to diagnose the vulnerability of organisational plans. <i>Technological Forecasting and Social Change</i> , 2016, 111, 164-175.	11.6	9
61	Analyzing the Economic Effect of Mobile Network Sharing in Korea. <i>ETRI Journal</i> , 2012, 34, 308-318.	2.0	8
62	Strategic planning using service roadmaps. <i>Service Industries Journal</i> , 2014, 34, 999-1020.	8.3	8
63	Technology-Based New Service Idea Generation for Smart Spaces: Application of 5G Mobile Communication Technology. <i>Sustainability</i> , 2016, 8, 1211.	3.2	8
64	Forecasting Forward Patent Citations: Comparison of Citation-Lag Distribution, Tobit Regression, and Deep Learning Approaches. <i>IEEE Transactions on Engineering Management</i> , 2022, 69, 1185-1196.	3.5	8
65	Identifying Promising IT Products for SMEs under the Concept of Business Ecosystem. <i>Journal of Korean Institute of Industrial Engineers</i> , 2013, 39, 61-72.	0.1	7
66	Perceptual Factors Affecting the Tendency to Collaboration in SMEs: Perceived Importance of Collaboration Modes and Partners. <i>Journal of Technology Management and Innovation</i> , 2015, 10, 18-31.	0.7	6
67	Development of an R&D process model for enhancing the quality of R&D: comparison with CMMI, ISO and EIRMA. <i>Total Quality Management and Business Excellence</i> , 2015, 26, 746-761.	3.8	6
68	Evaluating Internal Technological Capabilities in Energy Companies. <i>Energies</i> , 2016, 9, 145.	3.1	6
69	A visual context-based market analysis of mobile application services. <i>Management Decision</i> , 2016, 54, 2106-2132.	3.9	6
70	Practical Roadmapping Implementation: What We Learned From QinetiQ Group. <i>IEEE Engineering Management Review</i> , 2021, 49, 108-114.	1.3	6
71	Corporate document mining for technology intelligence: an analysis of needs, utilisation and possibilities. <i>International Journal of Technology Intelligence and Planning</i> , 2011, 7, 110.	0.3	5
72	Comparative Analysis of R&D-Based Innovation Capabilities in SMEs to Design Innovation Policy. <i>Science and Public Policy</i> , 0, , scw073.	2.4	5

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73	Patterns of Protecting Both Technological and Nontechnological Innovation for Service Offerings: Case of the Video-Game Industry. <i>Service Science</i> , 2017, 9, 192-204.	1.3	5
74	How Can Big Data Complement Expert Analysis? A Value Chain Case Study. <i>Sustainability</i> , 2018, 10, 709.	3.2	5
75	Sustaining Organizational Roadmapping Implementation—Lessons Learned from Subsea 7. <i>Research Technology Management</i> , 2022, 65, 50-57.	0.8	5
76	Service-Oriented Factors Affecting the Adoption of Smartphones. <i>Journal of Technology Management and Innovation</i> , 2014, 9, 98-117.	0.7	4
77	Characteristics of new product development activities in SMEs: an empirical analysis of the Korean IT sector. <i>Asian Journal of Technology Innovation</i> , 2015, 23, 230-254.	2.8	4
78	Six different approaches to defining and identifying promising technology through patent analysis. <i>Technology Analysis and Strategic Management</i> , 2022, 34, 961-973.	3.5	4
79	Emerging Technologies in Mobile Communications for 2020. <i>The Journal of Korean Institute of Communications and Information Sciences</i> , 2013, 38A, 108-126.	0.1	4
80	Web-based supporting system for Technology Roadmap: development, application and integration. <i>International Journal of Technology Intelligence and Planning</i> , 2008, 4, 165.	0.3	3
81	What factors of early-stage innovative projects are likely to drive projects' success? A longitudinal analysis of Korean entrepreneurial firms. <i>R and D Management</i> , 2018, 48, 627-640.	5.3	2
82	Issues and Efforts for Technology-Humanities Convergence : Empirical Analysis of Korean SMEs. <i>Journal of Korean Institute of Industrial Engineers</i> , 2014, 40, 451-461.	0.1	2
83	Designing a business intelligence system to support industry analysis and innovation policy. <i>Science and Public Policy</i> , 2022, 49, 414-426.	2.4	2
84	Potential of patent image data as technology intelligence source. <i>Journal of Informetrics</i> , 2022, 16, 101263.	2.9	2
85	R&D support services for small and medium-sized enterprises: The different perspectives of clients and service providers, and the roles of intermediaries. <i>Science and Public Policy</i> , 2016, , scw006.	2.4	1
86	The Competitive Growth Pattern of Mobile Telecommunications in Korea. , 2011, , 18-35.		1
87	Kick-Starting Roadmapping Implementation in Corporate Settings: Lessons Learned From IHI Corporation. <i>International Journal of Innovation and Technology Management</i> , 2023, 20, .	1.4	1
88	Technology Co-evolution Analysis in the Energy Sector. <i>Springer Proceedings in Physics</i> , 2010, , 41-48.	0.2	0
89	An Empirical Study to Support Intellectual Property Strategy Planning in Firms : The Use of Intellectual Property Roadmap. <i>Journal of Korean Institute of Industrial Engineers</i> , 2015, 41, 559-571.	0.1	0