Janghyeok Yoon

List of Publications by Year
in descending order

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62 papers	2,456 citations	186209 28 h-index	206029 48 g-index
62 all docs	62 docs citations	62 times ranked	1121 citing authors

#	Article	IF	Citations
1	Social media mining for product planning: A product opportunity mining approach based on topic modeling and sentiment analysis. International Journal of Information Management, 2019, 48, 280-290.	10.5	179
2	Identifying rapidly evolving technological trends for R&D planning using SAO-based semantic patent networks. Scientometrics, 2011, 88, 213-228.	1.6	160
3	Detecting signals of new technological opportunities using semantic patent analysis and outlier detection. Scientometrics, 2012, 90, 445-461.	1.6	144
4	Identifying technological competition trends for R&D planning using dynamic patent maps: SAO-based content analysis. Scientometrics, 2013, 94, 313-331.	1.6	123
5	SAO network analysis of patents for technology trends identification: a case study of polymer electrolyte membrane technology in proton exchange membrane fuel cells. Scientometrics, 2011, 88, 863-883.	1.6	99
6	A patent intelligence system for strategic technology planning. Expert Systems With Applications, 2013, 40, 2373-2390.	4.4	95
7	Identifying patent infringement using SAO based semantic technological similarities. Scientometrics, 2012, 90, 515-529.	1.6	92
8	TrendPerceptor: A propertyâ€“function based technology intelligence system for identifying technology trends from patents. Expert Systems With Applications, 2012, 39, 2927-2938.	4.4	88
9	Detecting weak signals for long-term business opportunities using text mining of Web news. Expert Systems With Applications, 2012, 39, 12543-12550.	4.4	86
10	An <scp>SAO</scp>â€based textâ€mining approach for technology roadmapping using patent information. R and D Management, 2013, 43, 52-74.	3.0	84
11	Application technology opportunity discovery from technology portfolios: Use of patent classification and collaborative filtering. Technological Forecasting and Social Change, 2017, 118, 170-183.	6.2	79
12	Product opportunity identification based on internal capabilities using text mining and association rule mining. Technological Forecasting and Social Change, 2016, 105, 94-104.	6.2	70
13	Social media analytics and business intelligence research: A systematic review. Information Processing and Management, 2020, 57, 102279.	5.4	69
14	Assessing coreness and intermediarity of technology sectors using patent co-classification analysis: the case of Korean national R&D. Scientometrics, 2014, 98, 853-890.	1.6	65
15	Invention property-function network analysis of patents: a case of silicon-based thin film solar cells. Scientometrics, 2011, 86, 687-703.	1.6	64
16	Analyzing interdisciplinarity of technology fusion using knowledge flows of patents. Expert Systems With Applications, 2014, 41, 1955-1963.	4.4	61
17	Technology opportunity discovery (TOD) from existing technologies and products: A function-based TOD framework. Technological Forecasting and Social Change, 2015, 100, 153-167.	6.2	61
18	Identifying product opportunities using collaborative filtering-based patent analysis. Computers and Industrial Engineering, 2017, 107, 376-387.	3.4	61

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19	An automated method for identifying TRIZ evolution trends from patents. Expert Systems With Applications, 2011, 38, 15540-15548.	4.4	52
20	Identification and evaluation of corporations for merger and acquisition strategies using patent information and text mining. Scientometrics, 2013, 97, 883-909.	1.6	50
21	Generating patent development maps for technology monitoring using semantic patent-topic analysis. Computers and Industrial Engineering, 2016, 98, 289-299.	3.4	45
22	An analysis of propertyâ€“function based patent networks for strategic R&D planning in fast-moving industries: The case of silicon-based thin film solar cells. Expert Systems With Applications, 2012, 39, 7709-7717.	4.4	42
23	Using function-based patent analysis to identify potential application areas of technology for technology transfer. Expert Systems With Applications, 2013, 40, 5260-5265.	4.4	39
24	Tracing evolving trends in printed electronics using patent information. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	38
25	A chance discovery-based approach for new productâ€“service system (PSS) concepts. Service Business, 2015, 9, 115-135.	2.2	36
26	Technology opportunity discovery under the dynamic change of focus technology fields: Application of sequential pattern mining to patent classifications. Technological Forecasting and Social Change, 2019, 148, 119737.	6.2	35
27	Competitive Intelligence Analysis of Augmented Reality Technology Using Patent Information. Sustainability, 2017, 9, 497.	1.6	34
28	Identifying Product Opportunities Using Social Media Mining: Application of Topic Modeling and Chance Discovery Theory. IEEE Access, 2018, 6, 1680-1693.	2.6	33
29	Patent document clustering with deep embeddings. Scientometrics, 2020, 123, 563-577.	1.6	28
30	Tracing the Evolving Trends in Electronic Skin (e-Skin) Technology Using Growth Curve and Technology Position-Based Patent Bibliometrics. IEEE Access, 2018, 6, 26530-26542.	2.6	25
31	Analyzing technology impact networks for R&D planning using patents: combined application of network approaches. Scientometrics, 2014, 101, 917-936.	1.6	23
32	Innovation Topic Analysis of Technology: The Case of Augmented Reality Patents. IEEE Access, 2018, 6, 16119-16137.	2.6	23
33	Identification of time-evolving product opportunities via social media mining. Technological Forecasting and Social Change, 2020, 156, 120045.	6.2	23
34	A novel approach to evaluating the business potential of intellectual properties: A machine learning-based predictive analysis of patent lifetime. Computers and Industrial Engineering, 2020, 145, 106544.	3.4	22
35	An approach for discovering firm-specific technology opportunities: Application of link prediction to F-term networks. Technological Forecasting and Social Change, 2021, 168, 120746.	6.2	22
36	A transferability evaluation model for intellectual property. Computers and Industrial Engineering, 2019, 131, 344-355.	3.4	19

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37	Predicting product development directions for new product planning using patent classification-based link prediction. Scientometrics, 2020, 125, 1833-1876.	1.6	16
38	Analyzing Technological Spillover Effects Between Technology Classes: the Case of Korea Technology Finance Corporation. IEEE Access, 2018, 6, 3573-3584.	2.6	14
39	Patent-trademark linking framework for business competition analysis. Computers in Industry, 2020, 122, 103242.	5.7	13
40	Understanding music streaming services via text mining of online customer reviews. Electronic Commerce Research and Applications, 2022, 53, 101145.	2.5	13
41	Ontological functional modeling of technology for reusability. Expert Systems With Applications, 2011, 38, 10484-10492.	4.4	12
42	An information entropy and latent Dirichlet allocation approach to noise patent filtering. Advanced Engineering Informatics, 2021, 47, 101243.	4.0	12
43	A state-driven modeling approach to human interactions for knowledge intensive services. Expert Systems With Applications, 2011, 38, 1917-1930.	4.4	10
44	Mapping the Patent Landscape in the Field of Personalized Medicine. Journal of Pharmaceutical Innovation, 2017, 12, 238-248.	1.1	10
45	Measuring knowledge exploration distance at the patent level: Application of network embedding and citation analysis. Journal of Informetrics, 2022, 16, 101286.	1.4	9
46	Trademark-based framework to uncover business diversification opportunities: Application of deep link prediction and competitive intelligence analysis. Computers in Industry, 2021, 124, 103356.	5.7	8
47	Reliability-Based Robust Design Optimization of Lithium-Ion Battery Cells for Maximizing the Energy Density by Increasing Reliability and Robustness. Energies, 2021, 14, 6236.	1.6	8
48	Anticipating promising services under technology capability for new product-service system strategies: An integrated use of patents and trademarks. Computers in Industry, 2021, 133, 103542.	5.7	8
49	Monitoring the Change of Technological Impacts of Technology Sectors Using Patent Information: the Case of Korea. Industrial Engineering and Management Systems, 2015, 14, 58-72.	0.3	8
50	Inventor profile mining approach for prospective human resource scouting. Journal of Informetrics, 2021, 15, 101103.	1.4	7
51	A two-stage deep learning-based system for patent citation recommendation. Scientometrics, 2022, 127, 6615-6636.	1.6	7
52	Data-driven health condition and RUL prognosis for liquid filtration systems. Journal of Mechanical Science and Technology, 2021, 35, 1597-1607.	0.7	6
53	A fact-oriented ontological approach to human process modeling for knowledge-intensive business services. Expert Systems With Applications, 2011, 38, 12281-12292.	4.4	4
54	Inventor group identification approach for selecting university-industry collaboration partners. Technological Forecasting and Social Change, 2021, 171, 120988.	6.2	4

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55	A Function-Based Knowledge Base for Technology Intelligence. Industrial Engineering and Management Systems, 2015, 14, 73-87.	0.3	4
56	Technology Opportunity Discovery Based on Firms' Technologies and Products. Journal of Korean Institute of Industrial Engineers, 2014, 40, 442-450.	0.1	4
57	Identification of emerging business areas for business opportunity analysis: An approach based on language model and local outlier factor. Computers in Industry, 2022, 140, 103677.	5.7	4
58	Generating New Product-Service System Concepts Using General Needs and Business System Evolution Patterns: A Furniture PSS Case. Industrial Engineering and Management Systems, 2016, 15, 181-195.	0.3	2
59	Monitoring Augmented Reality Technology Using Topic Modeling of Patents. Journal of Korean Institute of Industrial Engineers, 2017, 43, 213-228.	0.1	2
60	A Technology Planning Approach Based on Network and Growth Curve Analyses : the Case of Augmented Reality Patents. Journal of Korean Institute of Industrial Engineers, 2016, 42, 337-351.	0.1	1
61	Mapping the Technological Knowledge Landscape: The Case of Epigenetics. Recent Patents on Anti-Cancer Drug Discovery, 2016, 11, 424-433.	0.8	1
62	Identifying Interdisciplinarity of Korean National Ri¼†D Using Patent CoIPC Network Analysis. Journal of the Korean Society for Library and Information Science, 2012, 46, 99-117.	0.0	0