Industry 4.0: A bibliometric analysis and detailed overv

Engineering Applications of Artificial Intelligence 78, 218-235 DOI: 10.1016/j.engappai.2018.11.007

Citation Report

#	Article	IF	CITATIONS
1	Feasibility Study to Preserve the Health of an Industry 4.0 Worker: a Radar System for Monitoring the Sitting-Time. , 2019, , .		25
2	Engineering applications of artificial intelligence: A bibliometric analysis of 30 years (1988–2018). Engineering Applications of Artificial Intelligence, 2019, 85, 517-532.	4.3	78
3	Enabling Technologies of Industry 4.0 and Their Global Forerunners: An Empirical Study of the Web of Science Database. Communications in Computer and Information Science, 2019, , 3-13.	0.4	6
4	Innovation in Latin America through the lens of bibliometrics: crammed and fading away. Scientometrics, 2019, 121, 869-895.	1.6	23
5	Multi-Protocol LoRaWAN/Wi-Fi Sensor Node Performance Assessment for Industry 4.0 Energy Monitoring. , 2019, , .		4
6	Control and monitoring for sustainable manufacturing in the Industry 4.0: A literature review. IFAC-PapersOnLine, 2019, 52, 195-200.	0.5	28
7	I Prefer My Own Ways to Acquire My English Speaking Skills: A Grounded Research. International Journal of Higher Education, 2019, 9, 32.	0.2	2
8	Aligning Education for the Life Sciences Domain to Support Digitalization and Industry 4.0. Procedia Computer Science, 2019, 158, 99-106.	1.2	46
9	Requirement Analysis for Cybersecurity Solutions in Industry 4.0 Platforms. , 2019, , .		6
10	Transfer Learning based GDP Prediction from Uncertain Carbon Emission Data. , 2019, , .		1
11	Industry 4.0 technologies basic network identification. Scientometrics, 2019, 121, 977-994.	1.6	48
12	Grey system theory trends from 1991 to 2018: a bibliometric analysis and visualization. Scientometrics, 2019, 121, 1407-1434.	1.6	41
13	A Decade Bibliometric Review of Road Traffic Accidents and Incidents: A Computational Perspective. , 2019, , .		1
14	The fourth industrial revolution (Industry 4.0): technologies disruption on operations and supply chain management. International Journal of Operations and Production Management, 2019, 39, 817-828.	3.5	202
15	Design, process and commercial benefits gained from AMT. Journal of Manufacturing Technology Management, 2019, 31, 330-352.	3.3	4
16	Digital supply chain model in Industry 4.0. Journal of Manufacturing Technology Management, 2019, 31, 887-933.	3.3	151
17	Review: Identification of roadmap of fourth construction industrial revolution. IOP Conference Series: Materials Science and Engineering, 2019, 615, 012029.	0.3	6
18	IoT-based Predictive Maintenance for Smart Manufacturing Systems. , 2019, , .		9

#	Article	IF	CITATIONS
19	Investigating the Relationship between Industry 4.0 and Productivity: A Conceptual Framework for Malaysian Manufacturing Firms. Procedia Computer Science, 2019, 161, 696-706.	1.2	29
20	The Roles of Industrial Engineering Education for Promoting Innovations and Technology Commercialization in the Digital Era. IOP Conference Series: Materials Science and Engineering, 2019, 495, 012001.	0.3	5
21	Developing distributed manufacturing strategies from the perspective of a product-process matrix. International Journal of Production Economics, 2020, 219, 1-17.	5.1	41
22	Digital transformation effects on manufacturing readiness assessment. Cyber-Physical Systems, 2020, 6, 49-54.	1.6	1
23	Service Oriented, Holonic and Multi-agent Manufacturing Systems for Industry of the Future. Studies in Computational Intelligence, 2020, , .	0.7	7
25	Energy efficient multi-objective scheduling of tasks with interval type-2 fuzzy timing constraints in an Industry 4.0 ecosystem. Engineering Applications of Artificial Intelligence, 2020, 87, 103257.	4.3	42
27	Behind the definition of Industry 4.0: Analysis and open questions. International Journal of Production Economics, 2020, 226, 107617.	5.1	337
28	Tackling Faults in the Industry 4.0 Era—A Survey of Machine-Learning Solutions and Key Aspects. Sensors, 2020, 20, 109.	2.1	156
29	Critical factors for the successful implementation of Industry 4.0: a review and future research direction. Production Planning and Control, 2020, 31, 799-815.	5.8	194
30	On the Performance of Cloud Services and Databases for Industrial IoT Scalable Applications. Electronics (Switzerland), 2020, 9, 1435.	1.8	8
31	Improving the detection of robot anomalies by handling data irregularities. Neurocomputing, 2021, 459, 419-431.	3.5	8
32	Industry 4.0 Model for circular economy and cleaner production. Journal of Cleaner Production, 2020, 277, 123853.	4.6	75
33	Further Developments on Application of Dynamic Fuzzy Cognitive Map Concept for Digital Business Models. International Journal of Fuzzy Systems, 2020, 22, 2680-2689.	2.3	1
35	Predictive maintenance in the Industry 4.0: A systematic literature review. Computers and Industrial Engineering, 2020, 150, 106889.	3.4	391
36	Industry 4.0 and its impact in plastics industry: A literature review. Journal of Industrial Information Integration, 2020, 20, 100172.	4.3	22
37	Energy-efficient steelmaking-continuous casting scheduling problem with temperature constraints and its solution using a multi-objective hybrid genetic algorithm with local search. Applied Soft Computing Journal, 2020, 95, 106554.	4.1	36
38	Pros and cons of implementing Industry 4.0 for the organizations: a review and synthesis of evidence. Production and Manufacturing Research, 2020, 8, 244-272.	0.9	67
39	Industry 4.0 collaborative networks for industrial performance. Journal of Manufacturing Technology Management, 2020, 32, 245-265.	3.3	42

#	Article	IF	CITATIONS
40	Supply chain integration and Industry 4.0: a systematic literature review. Benchmarking, 2021, 28, 990-1030.	2.9	86
41	Emotions and Sport Management: A Bibliometric Overview. Frontiers in Psychology, 2020, 11, 1512.	1.1	23
42	Discretization of hybrid CPPS data into timed automaton using restricted Boltzmann machines. Engineering Applications of Artificial Intelligence, 2020, 95, 103826.	4.3	10
43	Investigating the Theoretical Constructs of a Green Lean Six Sigma Approach towards Environmental Sustainability: A Systematic Literature Review and Future Directions. Sustainability, 2020, 12, 8247.	1.6	24
44	Perspectives on the future of manufacturing within the Industry 4.0 era. Production Planning and Control, 2022, 33, 138-158.	5.8	69
45	Smart polymeric materials applied to industry 4.0: A review on electrochromic textiles. AIP Conference Proceedings, 2020, , .	0.3	0
46	Bibliometric analysis of "Open Innovation": the transversality and interdisciplinarity of the subject since 2015. , 2020, , .		0
47	Reducing scrap and improving an air conditioning pipe production line. Procedia Manufacturing, 2020, 51, 1410-1415.	1.9	1
48	Isolation Forest Based Multi-Source Unsupervised Transfer Learning for Missing GDP Prediction. , 2020, , .		1
49	Group Key Management in constrained IoT Settings. , 2020, , .		4
50	Lane marking detection algorithm based on highâ€precision map and multisensor fusion. Concurrency Computation Practice and Experience, 2020, , .	1.4	2
51	Design of cyber physical system architecture for industry 4.0 through lean six sigma: conceptual foundations and research issues. Production and Manufacturing Research, 2020, 8, 158-181.	0.9	29
52	Measuring the Implications of Sustainable Manufacturing in the Context of Industry 4.0. Processes, 2020, 8, 585.	1.3	37
53	A review of machine learning for big data analytics: bibliometric approach. Technology Analysis and Strategic Management, 2020, 32, 984-1005.	2.0	22
54	Looking at energy through the lens of Industry 4.0: A systematic literature review of concerns and challenges. Computers and Industrial Engineering, 2020, 143, 106426.	3.4	65
55	Why and how to merge Scopus and Web of Science during bibliometric analysis: the case of sales force literature from 1912 to 2019. Journal of Marketing Analytics, 2020, 8, 165-184.	2.2	123
56	Evaluation of the impact of Cloud Database services on Industrial IoT Applications. , 2020, , .		1
57	A performance measurement system for industry 4.0 enabled smart manufacturing system in SMMEs- A review and empirical investigation. International Journal of Production Economics, 2020, 229, 107853.	5.1	194

		CITATION REPORT		
#	Article	IF	Сітатіо	ONS
58	The Ability of Project Managers to Implement Industry 4.0-Related Projects. IEEE Access, 2020, 8,	314-324. 2.6	20	
59	A Bibliometric Overview of the Field of Type-2 Fuzzy Sets and Systems [Discussion Forum]. IEEE Computational Intelligence Magazine, 2020, 15, 89-98.	3.4	24	
60	Forecasting Appliances Failures: A Machine-Learning Approach to Predictive Maintenance. Informa (Switzerland), 2020, 11, 208.	ation 1.7	19	
61	A bibliometric analysis and cutting-edge overview on fuzzy techniques in Big Data. Engineering Applications of Artificial Intelligence, 2020, 92, 103625.	4.3	28	
62	Knowledge Management in the Fourth Industrial Revolution: Mapping the Literature and Scoping Future Avenues. IEEE Transactions on Engineering Management, 2021, 68, 289-300.	2.4	154	
63	A Deep Swarm-Optimized Model for Leveraging Industrial Data Analytics in Cognitive Manufactur IEEE Transactions on Industrial Informatics, 2021, 17, 2938-2946.	ing. 7.2	32	
64	The mark of industry 4.0: how managers respond to key revolutionary changes. International Journ of Productivity and Performance Management, 2021, 70, 1213-1231.	nal 2.2	16	
65	Automatic clustering algorithms: a systematic review and bibliometric analysis of relevant literatu Neural Computing and Applications, 2021, 33, 6247-6306.	re. 3.2	66	
66	The applications of Industry 4.0 technologies in manufacturing context: a systematic literature review. International Journal of Production Research, 2021, 59, 1922-1954.	4.9	312	
67	Twenty years of water utility benchmarking: A bibliometric analysis of emerging interest in water research and collaboration. Journal of Cleaner Production, 2021, 284, 124711.	4.6	85	
68	Insurance 4.0. Palgrave Studies in Financial Services Technology, 2021, , .	0.5	9	
69	Exploring technology attitudes and personal–cultural orientations as student readiness factors digitalised work. Higher Education, Skills and Work-based Learning, 2021, 11, 649-671.	for 0.9	7	
70	Smart Manufacturing and Intelligent Manufacturing: A Comparative Review. Engineering, 2021, 7 738-757.	, 3.2	180	
72	Methodology for Implementation of Industry 4.0 Technologies in Supply Chain for SMEs. Advance Intelligent Systems and Computing, 2021, , 59-76.	s in 0.5	4	
73	Artificial Intelligence (AI): Multidisciplinary perspectives on emerging challenges, opportunities, ar agenda for research, practice and policy. International Journal of Information Management, 2021, 101994.		5 939	
74	Substantial capabilities of robotics in enhancing industry 4.0 implementation. Cognitive Robotics, 2021, 1, 58-75.	3.2	169	
75	Produktentwicklung im Kontext von Industrie 4.0 in der Automobilindustrie – Eine bibliometrisc Analyse. , 2021, , 265-286.	he	0	
76	A Conceptual Approximation Toward Occupational Safety and Health Within the Servitized Indust 4.0. Lecture Notes in Management and Industrial Engineering, 2021, , 37-48.	try 0.3	0	

#	Article	IF	CITATIONS
77	Significance of Human Factors and Ergonomics (HFE): Mediating Its Role Between Industry 4.0 Implementation and Operational Excellence. IEEE Transactions on Engineering Management, 2023, 70, 3976-3989.	2.4	12
78	Bibliometric analysis of sustainable agriculture on human rights governance approach: concept of sustainability on human rights governance. E3S Web of Conferences, 2021, 306, 02008.	0.2	1
80	Tsunami in the last 15Âyears: a bibliometric analysis with a detailed overview and future directions. Natural Hazards, 2021, 106, 139-172.	1.6	14
81	Combating Road Traffic Congestion with Big Data: A Bibliometric Review and Analysis of Scientific Research. EAI/Springer Innovations in Communication and Computing, 2021, , 43-86.	0.9	1
82	Sosyal Bilimlerde Endüstri 4.0'ın İncelenmesi ve Bibliyometrik Analizi. Dumlupınar Üniversitesi Sosya Bilimler Dergisi, 0, , .	0.2	1
83	Human factors, ergonomics and Industry 4.0 in the Oil&Gas industry: a bibliometric analysis. Procedia Computer Science, 2021, 180, 1049-1058.	1.2	5
84	Assessing Factors Influencing Supply Chain 4.0: A Case of Smart City Development. Springer Proceedings in Energy, 2021, , 641-648.	0.2	0
85	Proposal of a Methodology to Improve the Level of Automation of an Assembly Line. IFIP Advances in Information and Communication Technology, 2021, , 433-441.	0.5	0
87	Industry 4.0: A Technological-Oriented Definition Based on Bibliometric Analysis and Literature Review. Journal of Open Innovation: Technology, Market, and Complexity, 2021, 7, 68.	2.6	26
88	Technology enablers for the implementation of Industry 4.0 to traditional manufacturing sectors: A review. Computers in Industry, 2021, 125, 103390.	5.7	44
89	Blockchain in supply chain management: a review, bibliometric, and network analysis. Environmental Science and Pollution Research, 2021, , 1.	2.7	107
90	A Deep Learning Model for Predictive Maintenance in Cyber-Physical Production Systems Using LSTM Autoencoders. Sensors, 2021, 21, 972.	2.1	63
91	Industry 4.0 in the logistics field: A bibliometric analysis. IET Collaborative Intelligent Manufacturing, 2021, 3, 4-12.	1.9	26
92	Research Trends of Discovery Learning from 2015 to 2019: A Bibliometric Analysis. Journal of Physics: Conference Series, 2021, 1842, 012026.	0.3	2
93	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
94	Metaheuristics: a comprehensive overview and classification along with bibliometric analysis. Artificial Intelligence Review, 2021, 54, 4237-4316.	9.7	112
95	Reporting 4.0: Business Reporting for the Age of Mass Customization. Journal of Emerging Technologies in Accounting, 2021, 18, 1-15.	0.8	7
96	Research Trends of Serious Games: Bibliometric Analysis. Journal of Physics: Conference Series, 2021, 1842, 012036.	0.3	2

#	Article	IF	CITATIONS
97	An Innovation in Craftsman-like Talents Development Mode Based on Intelligent Manufacturing Specialty Group Construction. , 2021, , .		2
98	Visualization of performance assessment research to support education computing in the laboratory. IOP Conference Series: Materials Science and Engineering, 2021, 1098, 062005.	0.3	0
99	Symbiotic Relationship Between Machine Learning and Industry 4.0: A Review. Journal of Industrial Integration and Management, 2022, 07, 401-433.	3.1	23
100	Industry 4.0 enabling technologies in manufacturing: implementation priorities and difficulties in an emerging country. Technology Analysis and Strategic Management, 2022, 34, 489-503.	2.0	10
101	Global Trends of Green Pesticide Research from 1994 to 2019: A Bibliometric Analysis. Journal of Toxicology, 2021, 2021, 1-11.	1.4	16
102	Quality 4.0: The EFQM 2020 Model and Industry 4.0 Relationships and Implications. Sustainability, 2021, 13, 3107.	1.6	90
103	Electro-Fenton technology for wastewater treatment: A bibliometric analysis of current research trends, future perspectives and energy consumption analysis. Journal of Water Process Engineering, 2021, 40, 101952.	2.6	49
104	Trends and Patterns of Sustainable Technology: A Bibliometric Analysis of Economies. IOP Conference Series: Materials Science and Engineering, 2021, 1116, 012176.	0.3	0
105	Editorial: intelligent manufacturing systems towards industry 4.0 era. Journal of Intelligent Manufacturing, 2021, 32, 1793-1796.	4.4	35
106	Big data analytics in manufacturing: a bibliometric analysis of research in the field of business management. International Journal of Production Research, 2022, 60, 6793-6821.	4.9	46
107	Digital Technologies for Improving Logistics Performance of Countries. Transport and Telecommunication, 2021, 22, 207-216.	0.7	24
108	Artificial intelligence in E-commerce fulfillment: A case study of resource orchestration at Alibaba's Smart Warehouse. International Journal of Information Management, 2021, 57, 102304.	10.5	90
109	Research on Industry 4.0 and on key related technologies in Vietnam: A bibliometric analysis using Scopus. Learned Publishing, 2021, 34, 414-428.	0.8	23
110	The fourth industrial revolution of supply chains: A tertiary study. Journal of Engineering and Technology Management - JET-M, 2021, 60, 101624.	1.4	27
111	A systematic review of the research framework and evolution of smart homes based on the internet of things. Telecommunication Systems, 2021, 77, 597-623.	1.6	10
112	Educational Technology Research Trends: A Bibliometrics Analysis And Visualization. Turkish Journal of Computer and Mathematics Education, 2021, 12, 2695-2701.	0.4	1
113	Clusters of Skeptical Consumers Based on Technology and AI Acceptance, Perception of Social Media Information and Celebrity Trend Setter. Journal of Theoretical and Applied Electronic Commerce Research, 2021, 16, 1231-1247.	3.1	9
114	The Research Framework and Evolution of Service Robots. Journal of Computer Information Systems, 2022, 62, 598-608.	2.0	8

#	Article	IF	CITATIONS
115	Critical Factors of Industry 4.0 Implementation in an Emerging Country: Empirical Study. Future Internet, 2021, 13, 137.	2.4	7
116	The implementation of virtual reality in digital factory—a comprehensive review. International Journal of Advanced Manufacturing Technology, 2021, 115, 1349-1366.	1.5	15
117	Recent progress of scientific research on life cycle assessment. Materials Today: Proceedings, 2021, 47, 3161-3170.	0.9	6
118	Analysis of the World Scientific Production on the Topic of Industry 4.0 From 1990 to 2020. GEPROS: Gestão Da Produção, Operações E Sistemas, 2021, 16, 153-167.	0.0	0
119	The Impacts of the Fourth Industrial Revolution on Smart and Sustainable Cities. Sustainability, 2021, 13, 7165.	1.6	12
120	Business analytics in Industry 4.0: A systematic review. Expert Systems, 2021, 38, e12741.	2.9	19
121	Smart home and internet of things: A bibliometric study. Journal of Cleaner Production, 2021, 301, 126908.	4.6	74
122	Coronary Heart Disease and Depression or Anxiety: A Bibliometric Analysis. Frontiers in Psychology, 2021, 12, 669000.	1.1	20
123	Existence of asymmetry between wages and automatable jobs: a quantile regression approach. International Journal of Social Economics, 2021, 48, 1443-1462.	1.1	3
124	Evaluation of the Level and Readiness of Internal Logistics for Industry 4.0 in Industrial Companies. Applied Sciences (Switzerland), 2021, 11, 6130.	1.3	15
125	The Impact of Artificial Intelligence on Branding. Journal of Global Information Management, 2021, 29, 221-246.	1.4	38
126	Quantum JIDOKA. Integration of Quantum Simulation on a CNC Machine for In–Process Control Visualization. Sensors, 2021, 21, 5031.	2.1	2
127	Unsupervised Learning for Product Use Activity Recognition: An Exploratory Study of a "Chatty Device― Sensors, 2021, 21, 4991.	2.1	7
128	Industry 4.0: Latent Dirichlet Allocation and clustering based theme identification of bibliography. Engineering Applications of Artificial Intelligence, 2021, 103, 104280.	4.3	13
129	Emerging trends in digital transformation: a bibliometric analysis. Benchmarking, 2022, 29, 1069-1112.	2.9	56
130	Bibliometric Analysis-Based Review of Fused Deposition Modeling 3D Printing Method (1994–2020). 3D Printing and Additive Manufacturing, 2024, 11, 383-405.	1.4	4
131	Trends and Opportunities of Industry 4.0 in Wood Manufacturing Processes. , 0, , .		0
132	How Digital Twin Concept Supports Internal Transport Systems?—Literature Review. Energies, 2021, 14, 4919.	1.6	24

#	Article	IF	CITATIONS
133	Evolution of Industrial Revolution 4.0 in seaport system: an interpretation from a bibliometric analysis. Australian Journal of Maritime and Ocean Affairs, 2022, 14, 229-250.	1.1	12
134	Advances in Precision Coffee Growing Research: A Bibliometric Review. Agronomy, 2021, 11, 1557.	1.3	13
135	Global Isotopic Hydrograph Separation Research History and Trends: A Text Mining and Bibliometric Analysis Study. Water (Switzerland), 2021, 13, 2529.	1.2	9
136	Moringa oleifera through the years: a bibliometric analysis of scientific research (2000-2020). South African Journal of Botany, 2021, 141, 12-24.	1.2	18
137	Ergonomics 4.0: A bibliometric review of Human Factors research in Industrial Revolution 4.0 (IR 4.0). Work, 2021, 70, 321-334.	0.6	2
138	A Bibliometric and Visual Analysis of Environmental Behavior Research. Sustainability, 2021, 13, 10338.	1.6	8
139	A survey of bacterial foraging optimization. Neurocomputing, 2021, 452, 728-746.	3.5	34
140	Customers' willingness of irresponsible industry 4.0 companies to co-create sustainable practices. Social Responsibility Journal, 2021, ahead-of-print, .	1.6	0
141	Unraveling the capabilities that enable digital transformation: A data-driven methodology and the case of artificial intelligence. Advanced Engineering Informatics, 2021, 50, 101368.	4.0	31
142	Mapping the Impacts of Industry 4.0 on Performance Measurement Systems. IEEE Latin America Transactions, 2021, 19, 1912-1923.	1.2	12
143	A catalogue of digital solution areas for prioritising the needs of manufacturing SMEs. Computers in Industry, 2021, 133, 103532.	5.7	26
144	MCUBO. A Sustainability and Industry 4.0 Project. Lecture Notes in Management and Industrial Engineering, 2021, , 213-220.	0.3	1
145	Artificial Intelligence and Backshoring Strategies. Advances in Marketing, Customer Relationship Management, and E-services Book Series, 2021, , 227-255.	0.7	1
146	Augmented Technology for Safety and Maintenance in Industry 4.0. , 2021, , 495-502.		0
148	The Role of Machine Learning in IIoT Through FPGAs. , 2021, , 121-137.		0
150	Barriers of Creating Competitive Advantage in the Age of Industry 4.0: Conclusions from International Experience. Springer Proceedings in Business and Economics, 2020, , 3-42.	0.3	7
151	Comparative Analysis of the Most Industrialized Cities in Turkey from the Perspective of Industry 4.0. Lecture Notes in Mechanical Engineering, 2020, , 263-277.	0.3	5
153	Selected implications of a hyper-connected world on pavement engineering. International Journal of Pavement Research and Technology, 2020, 13, 673-678.	1.3	11

#	Article	IF	CITATIONS
154	Towards a Characterisation of Smart Systems: A Systematic Literature Review. Computers in Industry, 2020, 120, 103224.	5.7	59
155	A bibliometric overview of the Journal of Network and Computer Applications between 1997 and 2019. Journal of Network and Computer Applications, 2020, 165, 102695.	5.8	23
156	Smart manufacturing: a framework for managing performance. International Journal of Computer Integrated Manufacturing, 2021, 34, 227-256.	2.9	22
157	Industry 4.0: Some Challenges and Opportunities for Reliability Engineering. , 2019, 2, 23-34.		18
158	Additive manufacturing technologies for biomedical engineering applications: Research trends and scientific impact. Profesional De La Informacion, 2019, 28, .	2.7	5
159	A Bibliometric Analysis in Industry 4.0 and Advanced Manufacturing: What about the Sustainable Supply Chain?. Sustainability, 2020, 12, 7840.	1.6	33
160	Construal Level Research in Decision Making: Analysis and Pushing Forward the Debate Using Bibliometric Review and Thematic Analysis. American Business Review, 2020, 23, 106-135.	0.3	5
162	Análisis exhaustivo de los principios de diseño en el contexto de Industria 4.0. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 432.	0.6	17
163	Scientific literature on thermal spray coatings from Southeastern Europe: A ten years bibliometric analysis. FME Transactions, 2019, 47, 649-657.	0.7	4
164	Industry 4.0: The Human Resource Perspective. , 2021, , 269-286.		0
165	Environment for Education on Industry 4.0. IEEE Access, 2021, 9, 144395-144405.	2.6	16
166	Scientific publications from non-academic sectors and their impact. Scientometrics, 2021, 126, 8887-8911.	1.6	4
167	Linkage dynamics of sovereign credit risk and financial markets: A bibliometric analysis. Research in International Business and Finance, 2022, 59, 101566.	3.1	19
168	Introduction of a new nomen-clature of academic specialities in Russia: Continuity and innovations. Obrazovanie I Nauka, 2021, 23, 11-36.	0.3	3
169	Integrating Industry 4.0 and circular economy: a review. Journal of Enterprise Information Management, 2022, 35, 885-917.	4.4	21
169 170		4.4 0.8	21
	Management, 2022, 35, 885-917. Stock issues and the structure of argumentative discussions: An integrative analysis. Journal of		

#	Article	IF	CITATIONS
173	The Characteristics of Digital Twin in Cyberspace: A Knowledge Perspective. , 2019, , .		2
174	Future APT – Thoughts on Future Evolution of APT. Lecture Notes in Civil Engineering, 2020, , 708-717.	0.3	0
175	ANALYSIS OF THE IMPLEMENTATION OF INDUSTRY 4.0 STRATEGY IN COMPANIES IN THE STATE OF MATO GROSSO. , 0, , .		0
176	BIBLIOMETRIC ANALYSIS OF RESEARCH TRENDS ON LEAN IN VIETNAM. Dalat University Journal of Science, 2020, 10, 157.	0.0	2
177	Conceitos e tecnologias da Indústria 4.0. Revista Brasileira De Inovação, 0, 19, e0200023.	0.2	3
178	The Generative Fourth Industrial Revolution: Features, Affordances, and Implications. SSRN Electronic Journal, O, , .	0.4	4
179	Cloud Robotics for Industry 4.0 - A Literature Review. Communications in Computer and Information Science, 2020, , 3-15.	0.4	1
180	Augmented Technology for Safety and Maintenance in Industry 4.0. Advances in Civil and Industrial Engineering Book Series, 2020, , 134-141.	0.2	0
181	What Would Be the Next Design Evolution Under the Auspices of Industry 4.0?. Lecture Notes in Computer Science, 2020, , 28-45.	1.0	0
183	The Current Status and Developing Trends of Industry 4.0: a Review. Information Systems Frontiers, 0, , 1.	4.1	34
184	An Exploratory Bibliometric Analysis of the Birth and Emergence of Industry 5.0. Applied System Innovation, 2021, 4, 87.	2.7	45
185	Applications of Computational Intelligence Methods for Control and Diagnostics. Studies in Systems, Decision and Control, 2021, , 671-698.	0.8	0
186	Continuous Audit Intelligence as a Service (CAIaaS) and Intelligent App Recommendations. Journal of Emerging Technologies in Accounting, 2020, 17, 1-15.	0.8	5
187	A bibliometric analysis of tropical mangrove forest land use change from 2010 to 2020. Environment, Development and Sustainability, 2021, , 1-18.	2.7	3
188	Policy interactions with research trajectories: The case of cyber-physical convergence in manufacturing and industrials. Technological Forecasting and Social Change, 2022, 175, 121347.	6.2	1
190	A review of green shop scheduling problem. Information Sciences, 2022, 589, 478-496.	4.0	44
191	Strategic innovation in the last decade: Review and bibliometric analysis. , 2020, , .		1
192	A Review on Intelligent Predictive Maintenance: Bibliometric analysis and new research directions. , 2020, , .		2

#	Article	IF	CITATIONS
193	Research History and Trend of Scientific Research Management : Big Data Analysis Based on Bibliometrix Software. , 2020, , .		0
194	Analyzing the United Arab Emirates Manufacturing Sector and its Readiness for Industry 4.0. , 2020, , .		3

195 ENDÜSTRİ 4.0 VE VERİMLİLİK: TÜRK BEYAZ EÅžYA SEKTÖRÜNDE KEÅžFEDİCİ DURUM ÇALIÅžMASI. Verimlilik Dergisi, C 207-224.

196	Bibliometric Visualisation of Computer Science and COVID-19: A Review and Proposed Method. , 2021, , .		0
197	Impacts of Industry 4.0 technologies on Lean management tools: a bibliometric analysis. International Journal on Interactive Design and Manufacturing, 2022, 16, 135-150.	1.3	12
199	Tech Transition. International Journal of Virtual and Personal Learning Environments, 2022, 12, 1-17.	0.4	2
200	BIBLIOMETRIC ANALYSIS FOR THE ASIAN ACADEMY OF MANAGEMENT JOURNAL FROM 2015 TO 2019. , 2021, 2, 1-13.		0
201	Digital Transformation and Co-Creation of Value. Advances in Business Strategy and Competitive Advantage Book Series, 2022, , 23-36.	0.2	0
202	Decision making in the process of choosing and deploying industry 4.0 technologies. Gestão & Produção, 0, 29, .	0.5	3
203	Yacht Digital Design: Technologies toward a Computational Morphology System. , 0, , .		0
204	Energy Efficiency and Industry 4.0 in Wood Industry: A Review and Comparison to Other Industries. Energies, 2022, 15, 2384.	1.6	5
205	Artificial intelligence as an enabler for entrepreneurs: a systematic literature review and an agenda for future research. International Journal of Entrepreneurial Behaviour and Research, 2023, 29, 816-837.	2.3	43
206	Supply Chain Management Reshaped with Industry 4.0: A Review. Contemporary Studies in Economic and Financial Analysis, 2022, 108A, 69-93.	0.4	0
207	Classification of Industry 4.0 for Total Quality Management: A Review. Sustainability, 2022, 14, 3329.	1.6	9
208	Artificial intelligence and real-time predictive maintenance in industry 4.0: a bibliometric analysis. Al and Ethics, 2022, 2, 553-577.	4.6	19
209	Decision-making in smart manufacturing: A framework for performance measurement. International Journal of Computer Integrated Manufacturing, 2023, 36, 190-218.	2.9	7
210	Discover the trend and evolution of sustainable manufacturing: a thematic and bibliometric analysis. Environmental Science and Pollution Research, 2022, 29, 38899-38911.	2.7	9
211	The influence of predictive maintenance in industry 4.0: A systematic literature review. , 2022, , .		10

#	Article	IF	CITATIONS
212	A multi–modal unsupervised fault detection system based on power signals and thermal imaging via deep AutoEncoder neural network. Engineering Applications of Artificial Intelligence, 2022, 110, 104729.	4.3	10
213	Hydrogen energy storage integrated hybrid renewable energy systems: A review analysis for future research directions. International Journal of Hydrogen Energy, 2022, 47, 17285-17312.	3.8	168
214	Fintech: from budding to explosion - an overview of the current state of research. Review of Managerial Science, 2023, 17, 715-755.	4.3	17
215	Human resources management 4.0: Literature review and trends. Computers and Industrial Engineering, 2022, 168, 108111.	3.4	48
216	Product Development in the Automotive Industry in the Context of Industry 4.0 - A Bibliometric Analysis. , 2021, , .		0
218	Barriers of new technology introduction and disadvantages of industry 4.0 for industrial enterprises. Serbian Journal of Management, 2022, 17, 197-206.	0.4	5
220	Evaluation of key factors for industry 4.0 technologies adoption in small and medium enterprises (SMEs): an emerging economy context. Journal of Asia Business Studies, 2023, 17, 347-370.	1.3	8
222	The origins and development of statistical approaches in non-parametric frontier models: a survey of the first two decades of scholarly literature (1998–2020). Annals of Operations Research, 2022, 318, 713-741.	2.6	17
223	Impulso de la industria 4.0 en épocas de COVID-19: caso de las empresas tecnológicas costarricenses. TecnologÃa En Marcha, 0, , .	0.1	0
224	A bibliometric and thematic approach to agriculture 4.0. Heliyon, 2022, 8, e09369.	1.4	24
225	Artificial intelligence in industrial design: A semi-automated literature survey. Engineering Applications of Artificial Intelligence, 2022, 112, 104884.	4.3	20
226	Control for smart systems: Challenges and trends in smart cities. Annual Reviews in Control, 2022, 53, 358-369.	4.4	11
227	The Inclusion of Big Data as a Propellant of Urban Sustainability. , 2022, , 2271-2301.		0
228	An industry 4.0 approach to electric vehicles. International Journal of Computer Integrated Manufacturing, 2023, 36, 334-348.	2.9	9
229	DIGITAL TRANSFORMATION IN MANUFACTURING SMEs: A BIBLIOMETRIC ANALYSIS USING VOSviewer. , 0, , .		1
230	Exploring the Application Sphere of the Internet of Things in Industry 4.0: A Review, Bibliometric and Content Analysis. Sensors, 2022, 22, 4276.	2.1	39
231	Industry 4.0-driven operations and supply chains for the circular economy: a bibliometric analysis. Operations Management Research, 2022, 15, 858-878.	5.0	23
233	Artificial Intelligence as a Process Optimization Driver under Industry 4.0 Framework and the Role of IIoT, a Bibliometric Analysis. Journal of Industrial Integration and Management, 0, , 1-16.	3.1	5

		CITATION REPORT		
#	Article		IF	CITATIONS
234	Scheduling Under Uncertainty for Industry 4.0 and 5.0. IEEE Access, 2022, 10, 74977-2	75017.	2.6	11
235	Process window identification for 3D printing low melting point alloy (LMPA) using fus modelling (FDM). Rapid Prototyping Journal, 2022, 28, 2043-2056.	ed deposition	1.6	1
236	A Bibliometric Analysis of the Scientific Research on Artisanal and Small-Scale Mining. I Journal of Environmental Research and Public Health, 2022, 19, 8156.	nternational	1.2	5
237	Industry 4.0-Enabled Environment, Social, and Governance Reporting: A Case from a Cl Company. Journal of Emerging Technologies in Accounting, 2023, 20, 245-258.	ninese Energy	0.8	5
238	Health Monitoring of Employees for Industry 4.0. Journal of Nanomaterials, 2022, 2022	2, 1-8.	1.5	1
239	Automatic Merging of Scopus and Web of Science Data for Simplified and Effective Bil Analysis. Annals of Data Science, 0, , .	bliometric	1.7	4
240	A methodology to assess human-automated system conflict from safety perspective. C Chemical Engineering, 2022, 165, 107939.	Computers and	2.0	11
241	Intelligent Computing in Electrical Utility Industry 4.0: Concept, Key Technologies, App Future Directions. IEEE Access, 2022, 10, 100312-100336.	lications and	2.6	2
242	Cognitive Modular Building to Enhance User Wellbeing: An Insight from Literature Revi Potential Benefits, Design Considerations and Opportunities. , 2022, , 448-460.	iew on		1
243	Data Driven Process Monitoring, from Fault Detection and Diagnosis Points of View, in Context. Computer Aided Chemical Engineering, 2022, , 1033-1038.	Industry 4.0	0.3	0
244	Bibliometric Analysis of Supply Chain Digitalization. Advances in Logistics, Operations, Management Science Book Series, 2022, , 489-530.	and	0.3	0
245	A Review on Application of Machine Learning in Building Performance Prediction. Lectu Civil Engineering, 2023, , 3-9.	ıre Notes in	0.3	0
246	A Bibliometric Analysis of Unmanned Aerial Vehicles (UAV) Implementation in Cellular I , .	Network. , 2022,		0
247	Scars of COVID-19: A bibliometric analysis of post-COVID-19 fibrosis. Frontiers in Public	c Health, 0, 10, .	1.3	6
248	The Trends and Hotspots in Premature Ovarian Insufficiency Therapy from 2000 to 202 Journal of Environmental Research and Public Health, 2022, 19, 11728.	22. International	1.2	6
249	Planned Obsolescence: A Bibliometric Analysis. Lecture Notes in Mechanical Engineerir 193-203.	ng, 2023, ,	0.3	0
250	Transfer Pricing and Related Party Transactions: A Bibliometric Analysis. Central Europe Journal, 2022, 9, 237-253.	an Economic	0.4	0
251	Land Use and Land Cover in Tropical Forest: Global Research. Forests, 2022, 13, 1709.		0.9	7

#	Article	IF	CITATIONS
252	A Learning-Based Decision Tool towards Smart Energy Optimization in the Manufacturing Process. Systems, 2022, 10, 180.	1.2	5
253	A Bibliometric Study of Industry 4.0 in Construction Industry Using Oesterreich and Teuteberg (2016) As A Key Marker. IOP Conference Series: Earth and Environmental Science, 2022, 1067, 012056.	0.2	1
254	Bibliometric Analysis of Friction Stir Spot Welded Joints using SCOPUS Database. Lecture Notes in Mechanical Engineering, 2023, , 499-514.	0.3	0
255	Bibliometric Analysis of Global Research on Probable Maximum Precipitation Estimation Using Scopus Database. Lecture Notes in Civil Engineering, 2023, , 37-49.	0.3	0
256	Multi-Dimensional Threshold Effects of the Digital Economy on Green Economic Growth?—New Evidence from China. Sustainability, 2022, 14, 12888.	1.6	5
257	DesafÃos geopolÃticos y nuevos dilemas para las polÃticas industriales. Ciencia Y Poder Aéreo, 2022, 18, .	0.0	1
258	Industria 4.0 y transformación digital: nuevas formas de organización del trabajo. , 0, , 27-54.		1
259	An Overview of Sustainable Entrepreneurship in Tourism, Destination, and Hospitality Research Based on the Web of Science. Sustainability, 2022, 14, 14944.	1.6	3
260	Industry 4.0 implementation challenges in small- and medium-sized enterprises: an approach integrating interval type-2 fuzzy BWM and DEMATEL. Soft Computing, 2023, 27, 169-186.	2.1	6
261	A systematic review on implementing operational excellence as a strategy to ensure regulatory compliance: a roadmap for Indian pharmaceutical industry. International Journal of Lean Six Sigma, 2022, ahead-of-print, .	2.4	2
262	Maintenance policies and models: A bibliometric and literature review of strategies for reuse and remanufacturing. Reliability Engineering and System Safety, 2023, 231, 108983.	5.1	6
263	TURİZM ALANINDA ENDÜSTRİ 4.0 VE UYGULAMALARINI KONU ALAN MAKALELERİN BİBLİYOMETRİK / Pamukkale University Journal of Social Sciences Institute, 0, , .	ANALİZÄ	°.0
264	La Gestión de la Producción a partir de Modelos Inteligentes para la Industria 4.0: Retos y Oportunidades. EconomÃa Y Negocios, 2022, 13, 1-15.	0.1	0
265	Production Leveling or Heijunka: A Bibliometric Study. , 2022, , .		2
266	Competencies of Industrial Engineers for Implementing Augmented Reality Metadata Systems. Sustainability, 2023, 15, 130.	1.6	0
267	Bibliometric analysis of spatio-temporal model using a general product-sum based on a hydrological distance. Frontiers in Applied Mathematics and Statistics, 0, 8, .	0.7	1
268	The Role of Enabling Technologies from Industry 4.0 in the Formulation of Public Policies for Smart Cities. Springer Proceedings in Business and Economics, 2023, , 119-129.	0.3	0
269	Challenges and Opportunities of Digitalization in Mexico. , 2023, , 451-474.		2

#	Article	IF	CITATIONS
271	Aplicação de aprendizado de máquina para aumento de precisão de um sistema automatizado de nutrição de suAnos. Revista Produção Online, 2023, 22, 2428-2451.	0.1	0
272	A bibliometric analysis of cold spray coating process using VOSviewer. Materials Today: Proceedings, 2022, , .	0.9	2
273	Advances in artificial muscles: A brief literature and patent review. Frontiers in Bioengineering and Biotechnology, 0, 11, .	2.0	3
274	IOT Based Predictive Maintenance in Industry 4.0. , 2022, , .		2
275	Analyzing the required skills and competencies in Industrial revolution 4.0 and 5.0: A Literature Review. , 2023, , .		1
276	Impacts of Fourth Industrial Revolution on Education for Sustainable Development in Higher Education Institutions. World Sustainability Series, 2023, , 513-537.	0.3	0
277	Artificial intelligence centric scientific research on COVID-19: an analysis based on scientometrics data. Multimedia Tools and Applications, 2023, 82, 32755-32787.	2.6	1
278	Forty-five years of International Journal of Intercultural Relations: A bibliometric analysis. International Journal of Intercultural Relations, 2023, 94, 101785.	1.0	0
279	Systems thinking in biology education research bibliometric analysis. AIP Conference Proceedings, 2022, , .	0.3	0
280	State-of-the-Art of Artificial Intelligence and Big Data Analytics Reviews in Five Different Domains: A Bibliometric Summary. Sustainability, 2023, 15, 4026.	1.6	21
281	Advanced solid-state welding based on computational manufacturing using the additive manufacturing process. International Journal on Interactive Design and Manufacturing, 0, , .	1.3	1
282	A tip-coupled, two-cantilever, non-resonant microsystem for direct measurement of liquid viscosity. Microsystems and Nanoengineering, 2023, 9, .	3.4	1
283	The role of digitalization in business and management: a systematic literature review. Review of Managerial Science, 2024, 18, 449-491.	4.3	15
284	BOT methodology for the inclusion of Spanish ports into the international logistics market as ports 4.0. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 0, , 1-13.	1.1	0
285	Risk and Reliability Analysis in the Era of Digital Transformation. Industrial and Applied Mathematics, 2023, , 269-284.	0.3	0
286	Bibliometric Analysis of Granger Causality Studies. Entropy, 2023, 25, 632.	1.1	4
287	Sustainable Maritime Freight Transportation: Current Status and Future Directions. Sustainability, 2023, 15, 6996.	1.6	2
289	Global trends of distance learning in science education: A bibliometric study. AIP Conference Proceedings, 2023, , .	0.3	0

#	Article	IF	CITATIONS
291	Water management towards sustainable food industry. , 2023, , 309-330.		0
297	The global scenario of hydrogeochemical research on glacier meltwater: a bibliometric and visualization analysis. Environmental Science and Pollution Research, 2023, 30, 74612-74627.	2.7	3
298	Digitalization in Organizations With a Dystopic Point of View. , 2023, , 75-85.		0
301	Application of Latent Dirichlet Allocation Topic Model in Identifying 4IR Research Trends. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 74-94.	0.2	0
303	Design of Artificial Intelligence-Based Products: Barriers and Enablers. Smart Innovation, Systems and Technologies, 2023, , 647-658.	0.5	0
313	Digital Twin Application Methodology for the Improvement of Production and Service Systems. Application to Waste Management Processes. Lecture Notes in Networks and Systems, 2023, , 25-36.	0.5	0
325	Machine learning based monitoring of worker's health and work place using IoT. AIP Conference Proceedings, 2023, , .	0.3	0
326	System Overview. Engineering Applications of Computational Methods, 2023, , 1-4.	0.5	0
328	Modern approaches of waste management - A critical review. AIP Conference Proceedings, 2024, , .	0.3	0
336	Non-technical Factors in Software Engineering Within the Context of Industry 4.0. Studies in Computational Intelligence, 2024, , 89-103.	0.7	0
339	The Constraints and Obstacles of Social Media Entrepreneurship Powered by AI. Advances in E-Business Research Series, 2024, , 213-227.	0.2	0
340	The Role of Artificial Intelligence in Business Management. Advances in Business Information Systems and Analytics Book Series, 2024, , 117-133.	0.3	0