

Qiang Liu

List of Publications by Citations

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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.

30
papers

1,489
citations

16
h-index

32
g-index

32
ext. papers

2,170
ext. citations

6.6
avg, IF

5.48
L-index

#	Paper	IF	Citations
30	A Digital Twin-Based Approach for Designing and Multi-Objective Optimization of Hollow Glass Production Line. <i>IEEE Access</i> , 2017 , 5, 26901-26911	3.5	201
29	Digital twin-driven manufacturing cyber-physical system for parallel controlling of smart workshop. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 10, 1155-1166	3.7	198
28	Digital twin-driven rapid individualised designing of automated flow-shop manufacturing system. <i>International Journal of Production Research</i> , 2019 , 57, 3903-3919	7.8	141
27	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 132, 110112	16.2	125
26	Digital twin-driven rapid reconfiguration of the automated manufacturing system via an open architecture model. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020 , 63, 101895	9.2	108
25	ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 1-11	7.3	102
24	Digital twin-based designing of the configuration, motion, control, and optimization model of a flow-type smart manufacturing system. <i>Journal of Manufacturing Systems</i> , 2021 , 58, 52-64	9.1	92
23	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. <i>Journal of Cleaner Production</i> , 2019 , 234, 767-778	10.3	90
22	Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 237-252	7.3	75
21	Digital twins-based smart manufacturing system design in Industry 4.0: A review. <i>Journal of Manufacturing Systems</i> , 2021 , 60, 119-137	9.1	70
20	Enabling cyber-physical systems with machine-to-machine technologies. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2013 , 13, 187	0.7	57
19	Digital twin-driven joint optimisation of packing and storage assignment in large-scale automated high-rise warehouse product-service system. <i>International Journal of Computer Integrated Manufacturing</i> , 2019 , 1-18	4.3	52
18	An Access Control Model for Resource Sharing Based on the Role-Based Access Control Intended for Multi-Domain Manufacturing Internet of Things. <i>IEEE Access</i> , 2017 , 5, 7001-7011	3.5	40
17	Digital Twin-Driven Cyber-Physical System for Autonomously Controlling of Micro Punching System. <i>IEEE Access</i> , 2019 , 7, 9459-9469	3.5	32
16	Digital twins-based remote semi-physical commissioning of flow-type smart manufacturing systems.. <i>Journal of Cleaner Production</i> , 2021 , 306, 127278	10.3	23
15	A loosely-coupled deep reinforcement learning approach for order acceptance decision of mass-individualized printed circuit board manufacturing in industry 4.0. <i>Journal of Cleaner Production</i> , 2021 , 280, 124405	10.3	19
14	A new tool path for optical freeform surface fast tool servo diamond turning. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014 , 228, 1721-1726	2.4	15

13	A Lightweight Intelligent Manufacturing System Based on Cloud Computing for Plate Production. <i>Mobile Networks and Applications</i> , 2017 , 22, 1170-1181	2.9	11
12	A cyber-physical production monitoring service system for energy-aware collaborative production monitoring in a smart shop floor. <i>Journal of Cleaner Production</i> , 2021 , 297, 126599	10.3	5
11	Resilience dynamics modeling and control for a reconfigurable electronic assembly line under spatio-temporal disruptions. <i>Journal of Manufacturing Systems</i> , 2021 , 60, 852-863	9.1	5
10	A best-fit branch-and-bound heuristic for the unconstrained two-dimensional non-guillotine cutting problem. <i>European Journal of Operational Research</i> , 2018 , 270, 448-474	5.6	4
9	Digital Twin-Driven Rapid Customized Design of Board-Type Furniture Production Line. <i>Journal of Computing and Information Science in Engineering</i> , 2021 , 21,	2.4	4
8	Algorithms for the variable-sized bin packing problem with time windows. <i>Computers and Industrial Engineering</i> , 2021 , 155, 107175	6.4	4
7	Fabrication of anti-reflective surfaces by 3-DOF fast tool servo diamond turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 2875-2883	3.2	3
6	A Digital Twin-Oriented Lightweight Approach for 3D Assemblies. <i>Machines</i> , 2021 , 9, 231	2.9	2
5	Cloud-edge orchestration-based bi-level autonomous process control for mass individualization of rapid printed circuit boards prototyping services. <i>Journal of Manufacturing Systems</i> , 2022 , 63, 143-161	9.1	2
4	Intelligent Manufacturing Based on Cloud-Integrated Manufacturing CPS 2016 , 177-186		1
3	A matrix analytic approach for Bayesian network modeling and inference of a manufacturing system. <i>Journal of Manufacturing Systems</i> , 2021 , 60, 202-213	9.1	1
2	Digital twin enabled optimal reconfiguration of the semi-automatic electronic assembly line with frequent changeovers. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022 , 77, 102343	9.2	0
1	An exact approach for the constrained two-dimensional guillotine cutting problem with defects. <i>International Journal of Production Research</i> , 1-18	7.8	0