

Qiang Liu

List of Publications by Year in descending order

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32
papers

3,031
citations

361045

20
h-index

454577

30
g-index

32
all docs

32
docs citations

32
times ranked

1772
citing authors

#	ARTICLE	IF	CITATIONS
1	A Digital Twin-Based Approach for Designing and Multi-Objective Optimization of Hollow Glass Production Line. <i>IEEE Access</i> , 2017, 5, 26901-26911.	2.6	320
2	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.	3.3	299
3	Digital twins-based smart manufacturing system design in Industry 4.0: A review. <i>Journal of Manufacturing Systems</i> , 2021, 60, 119-137.	7.6	291
4	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110112.	8.2	271
5	Digital twin-driven rapid individualised designing of automated flow-shop manufacturing system. <i>International Journal of Production Research</i> , 2019, 57, 3903-3919.	4.9	239
6	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.	6.1	212
7	Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 237-252.	5.9	174
8	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> , 2020, 50, 182-192.	5.9	169
9	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.	7.6	169
10	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. <i>Journal of Cleaner Production</i> , 2019, 234, 767-778.	4.6	157
11	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> , 2021, 34, 783-800.	2.9	112
12	Digital twins-based remote semi-physical commissioning of flow-type smart manufacturing systems. <i>Journal of Cleaner Production</i> , 2021, 306, 127278.	4.6	91
13	Digital Twin-Driven Cyber-Physical System for Autonomously Controlling of Micro Punching System. <i>IEEE Access</i> , 2019, 7, 9459-9469.	2.6	69
14	Enabling cyber-physical systems with machine-to-machine technologies. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2013, 13, 187.	0.3	67
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.	4.6	67
16	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.	2.6	58
17	Digital twins-based flexible operating of open architecture production line for individualized manufacturing. <i>Advanced Engineering Informatics</i> , 2022, 53, 101676.	4.0	43
18	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.	7.6	40

#	ARTICLE	IF	CITATIONS
19	Blockchained smart contract pyramid-driven multi-agent autonomous process control for resilient individualised manufacturing towards Industry 5.0. <i>International Journal of Production Research</i> , 2023, 61, 4302-4321.	4.9	29
20	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.	7.6	21
21	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.	1.5	20
22	Digital Twin-Driven Rapid Customized Design of Board-Type Furniture Production Line. <i>Journal of Computing and Information Science in Engineering</i> , 2021, 21, .	1.7	18
23	Algorithms for the variable-sized bin packing problem with time windows. <i>Computers and Industrial Engineering</i> , 2021, 155, 107175.	3.4	18
24	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.	4.6	18
25	A Lightweight Intelligent Manufacturing System Based on Cloud Computing for Plate Production. <i>Mobile Networks and Applications</i> , 2017, 22, 1170-1181.	2.2	17
26	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.	6.1	10
27	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.	3.5	8
28	A matrix analytic approach for Bayesian network modeling and inference of a manufacturing system. <i>Journal of Manufacturing Systems</i> , 2021, 60, 202-213.	7.6	8
29	A Digital Twin-Oriented Lightweight Approach for 3D Assemblies. <i>Machines</i> , 2021, 9, 231.	1.2	6
30	An exact approach for the constrained two-dimensional guillotine cutting problem with defects. <i>International Journal of Production Research</i> , 0, , 1-18.	4.9	5
31	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.	1.5	4
32	Intelligent Manufacturing Based on Cloud-Integrated Manufacturing CPS. , 2016, , 177-186.		1