

# Qiang Liu

## List of Publications by Year in descending order

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32  
papers

3,031  
citations

361413  
20  
h-index

454955  
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. IEEE Access, 2017, 5, 26901-26911.	4.2	320
2	Digital twin-driven manufacturing cyber-physical system for parallel controlling of smart workshop. Journal of Ambient Intelligence and Humanized Computing, 2019, 10, 1155-1166.	4.9	299
3	Digital twins-based smart manufacturing system design in Industry 4.0: A review. Journal of Manufacturing Systems, 2021, 60, 119-137.	13.9	291
4	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. Renewable and Sustainable Energy Reviews, 2020, 132, 110112.	16.4	271
5	Digital twin-driven rapid individualised designing of automated flow-shop manufacturing system. International Journal of Production Research, 2019, 57, 3903-3919.	7.5	239
6	Digital twin-driven rapid reconfiguration of the automated manufacturing system via an open architecture model. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101895.	9.9	212
7	Blockchain-Secured Smart Manufacturing in Industry 4.0: A Survey. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 237-252.	9.3	174
8	ManuChain: Combining Permissioned Blockchain With a Holistic Optimization Model as Bi-Level Intelligence for Smart Manufacturing. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 182-192.	9.3	169
9	Digital twin-based designing of the configuration, motion, control, and optimization model of a flow-type smart manufacturing system. Journal of Manufacturing Systems, 2021, 58, 52-64.	13.9	169
10	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. Journal of Cleaner Production, 2019, 234, 767-778.	9.3	157
11	Digital twin-driven joint optimisation of packing and storage assignment in large-scale automated high-rise warehouse product-service system. International Journal of Computer Integrated Manufacturing, 2021, 34, 783-800.	4.6	112
12	Digital twins-based remote semi-physical commissioning of flow-type smart manufacturing systems. Journal of Cleaner Production, 2021, 306, 127278.	9.3	91
13	Digital Twin-Driven Cyber-Physical System for Autonomously Controlling of Micro Punching System. IEEE Access, 2019, 7, 9459-9469.	4.2	69
14	Enabling cyber-physical systems with machine-to-machine technologies. International Journal of Ad Hoc and Ubiquitous Computing, 2013, 13, 187.	0.5	67
15	A loosely-coupled deep reinforcement learning approach for order acceptance decision of mass-individualized printed circuit board manufacturing in industry 4.0. Journal of Cleaner Production, 2021, 280, 124405.	9.3	67
16	An Access Control Model for Resource Sharing Based on the Role-Based Access Control Intended for Multi-Domain Manufacturing Internet of Things. IEEE Access, 2017, 5, 7001-7011.	4.2	58
17	Digital twins-based flexible operating of open architecture production line for individualized manufacturing. Advanced Engineering Informatics, 2022, 53, 101676.	8.0	43
18	Cloud-edge orchestration-based bi-level autonomous process control for mass individualization of rapid printed circuit boards prototyping services. Journal of Manufacturing Systems, 2022, 63, 143-161.	13.9	40

#	ARTICLE	IF	CITATIONS
19	Blockchained smart contract pyramid-driven multi-agent autonomous process control for resilient individualised manufacturing towards Industry 5.0. International Journal of Production Research, 2023, 61, 4302-4321.	7.5	29
20	Resilience dynamics modeling and control for a reconfigurable electronic assembly line under spatio-temporal disruptions. Journal of Manufacturing Systems, 2021, 60, 852-863.	13.9	21
21	A new tool path for optical freeform surface fast tool servo diamond turning. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 1721-1726.	2.4	20
22	Digital Twin-Driven Rapid Customized Design of Board-Type Furniture Production Line. Journal of Computing and Information Science in Engineering, 2021, 21, .	2.7	18
23	Algorithms for the variable-sized bin packing problem with time windows. Computers and Industrial Engineering, 2021, 155, 107175.	6.3	18
24	A cyber-physical production monitoring service system for energy-aware collaborative production monitoring in a smart shop floor. Journal of Cleaner Production, 2021, 297, 126599.	9.3	18
25	A Lightweight Intelligent Manufacturing System Based on Cloud Computing for Plate Production. Mobile Networks and Applications, 2017, 22, 1170-1181.	3.3	17
26	Digital twin enabled optimal reconfiguration of the semi-automatic electronic assembly line with frequent changeovers. Robotics and Computer-Integrated Manufacturing, 2022, 77, 102343.	9.9	10
27	A best-fit branch-and-bound heuristic for the unconstrained two-dimensional non-guillotine cutting problem. European Journal of Operational Research, 2018, 270, 448-474.	5.7	8
28	A matrix analytic approach for Bayesian network modeling and inference of a manufacturing system. Journal of Manufacturing Systems, 2021, 60, 202-213.	13.9	8
29	A Digital Twin-Oriented Lightweight Approach for 3D Assemblies. Machines, 2021, 9, 231.	2.2	6
30	An exact approach for the constrained two-dimensional guillotine cutting problem with defects. International Journal of Production Research, 0, , 1-18.	7.5	5
31	Fabrication of anti-reflective surfaces by 3-DOF fast tool servo diamond turning. International Journal of Advanced Manufacturing Technology, 2018, 95, 2875-2883.	3.0	4
32	Intelligent Manufacturing Based on Cloud-Integrated Manufacturing CPS. , 2016, , 177-186.		1