Chao Liu

List of Publications by Year
in descending order

31 papers	**2,785** citations	448610 **19** h-index	651938 **25** g-index
31 all docs	**31** docs citations	**31** times ranked	**2239** citing authors

#	ARTICLE	IF	CITATIONS
1	Digitalisation and servitisation of machine tools in the era of Industry 4.0: a review. International Journal of Production Research, 2023, 61, 4069-4101.	4.9	36
2	Digital Twin-enabled Collaborative Data Management for Metal Additive Manufacturing Systems. Journal of Manufacturing Systems, 2022, 62, 857-874.	7.6	89
3	A novel hypergraph convolution network-based approach for predicting the material removal rate in chemical mechanical planarization. Journal of Intelligent Manufacturing, 2022, 33, 2295-2306.	4.4	21
4	Service-oriented industrial internet of things gateway for cloud manufacturing. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102217.	6.1	53
5	Application of Multichannel Active Vibration Control in a Multistage Gear Transmission System. Shock and Vibration, 2022, 2022, 1-14.	0.3	2
6	A novel RSG-based intelligent bearing fault diagnosis method for motors in high-noise industrial environment. Advanced Engineering Informatics, 2022, 52, 101564.	4.0	31
7	A high-fidelity digital twin approach for the optimisation of fluid jet polishing process. Procedia CIRP, 2022, 107, 101-106.	1.0	1
8	Smart Manufacturing and Intelligent Manufacturing: A Comparative Review. Engineering, 2021, 7, 738-757.	3.2	180
9	Automatised quality assessment in additive layer manufacturing using layer-by-layer surface measurements and deep learning. Procedia CIRP, 2021, 99, 342-347.	1.0	4
10	The Crack Propagation Trend Analysis in Ceramic Rolling Element Bearing considering Initial Crack Angle and Contact Load Effect. Shock and Vibration, 2021, 2021, 1-12.	0.3	0
11	Frequencies estimation of gearbox vibration signal based on normalized lattice filter with RLS-based algorithm. Measurement Science and Technology, 2021, 32, 015104.	1.4	1
12	Predicting the Material Removal Rate in Chemical Mechanical Planarization Process: A Hypergraph Neural Network-Based Approach. , 2021, , .		3
13	Digital Twin-driven smart manufacturing: Connotation, reference model, applications and research issues. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101837.	6.1	712
14	Machine Learning-enabled feedback loops for metal powder bed fusion additive manufacturing. Procedia Computer Science, 2020, 176, 2586-2595.	1.2	23
15	Intelligent Manufacturing Systems in COVID-19 Pandemic and Beyond: Framework and Impact Assessment. Chinese Journal of Mechanical Engineering (English Edition), 2020, 33, .	1.9	31
16	Web-based digital twin modeling and remote control of cyber-physical production systems. Robotics and Computer-Integrated Manufacturing, 2020, 64, 101956.	6.1	125
17	Industrial Dataspace: A Broker to Run Cyber-Physical-Social Production System in Level of Machining Workshops. , 2019, , .		3
18	Visualisation of the Digital Twin data in manufacturing by using Augmented Reality. Procedia CIRP, 2019, 81, 898-903.	1.0	134

#	Article	IF	Citations
19	Standards for Smart Manufacturing: A review. , 2019, , .		8
20	Cloud based cyber-physical systems: Network evaluation study. Advanced Engineering Informatics, 2019, 42, 100988.	4.0	19
21	A Cyber-Physical Machine Tools Platform using OPC UA and MTConnect. Journal of Manufacturing Systems, 2019, 51, 61-74.	7.6	157
22	A systematic development method for cyber-physical machine tools. Journal of Manufacturing Systems, 2018, 48, 13-24.	7.6	108
23	Smart manufacturing systems for Industry 4.0: Conceptual framework, scenarios, and future perspectives. Frontiers of Mechanical Engineering, 2018, 13, 137-150.	2.5	588
24	Data cleansing for energy-saving: a case of Cyber-Physical Machine Tools health monitoring system. International Journal of Production Research, 2018, 56, 1000-1015.	4.9	31
25	MTConnect-based Cyber-Physical Machine Tool: a case study. Procedia CIRP, 2018, 72, 492-497.	1.0	34
26	From Open CNC Systems to Cyber-Physical Machine Tools: A Case Study. Procedia CIRP, 2018, 72, 1270-1276.	1.0	17
27	An Approach to Complete Product Definition Using STEP in Cloud Manufacturing. , 2018, , .		0
28	Personalized product configuration framework in an adaptable open architecture product platform. Journal of Manufacturing Systems, 2017, 43, 422-435.	7.6	81
29	Augmented Reality-assisted Intelligent Window for Cyber-Physical Machine Tools. Journal of Manufacturing Systems, 2017, 44, 280-286.	7.6	85
30	Cyber-physical Machine Tool â€" The Era of Machine Tool 4.0. Procedia CIRP, 2017, 63, 70-75.	1.0	117
31	A Cyber-physical System Architecture in Shop Floor for Intelligent Manufacturing. Procedia CIRP, 2016, 56, 372-377.	1.0	91