

Pingyu Jiang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3236992/publications.pdf>

Version: 2024-02-01

120
papers

2,950
citations

172457

29
h-index

197818

49
g-index

120
all docs

120
docs citations

120
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Blockchain-empowered sustainable manufacturing and product lifecycle management in industry 4.0: A survey. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 132, 110112.	16.4	271
2	Towards a cyber-physical-social-connected and service-oriented manufacturing paradigm: Social Manufacturing. <i>Manufacturing Letters</i> , 2016, 7, 15-21.	2.2	176
3	Makerchain: A blockchain with chemical signature for self-organizing process in social manufacturing. <i>Journal of Cleaner Production</i> , 2019, 234, 767-778.	9.3	157
4	Web-based digital twin modeling and remote control of cyber-physical production systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020, 64, 101956.	9.9	125
5	A deep learning approach for relationship extraction from interaction context in social manufacturing paradigm. <i>Knowledge-Based Systems</i> , 2016, 100, 188-199.	7.1	111
6	RFID-enabled social manufacturing system for inter-enterprise monitoring and dispatching of integrated production and transportation tasks. <i>Robotics and Computer-Integrated Manufacturing</i> , 2018, 49, 120-133.	9.9	99
7	Social manufacturing as a sustainable paradigm for mass individualization. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 1961-1968.	2.4	87
8	Combining granular computing technique with deep learning for service planning under social manufacturing contexts. <i>Knowledge-Based Systems</i> , 2018, 143, 295-306.	7.1	87
9	Cloud manufacturing: key issues and future perspectives. <i>International Journal of Computer Integrated Manufacturing</i> , 2019, 32, 858-874.	4.6	71
10	Deep neural networks based order completion time prediction by using real-time job shop RFID data. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 1303-1318.	7.3	57
11	Low-carbon scheduling and estimating for a flexible job shop based on carbon footprint and carbon efficiency of multi-job processing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 328-342.	2.4	54
12	RFID-enabled real-time manufacturing information tracking infrastructure for extended enterprises. <i>Journal of Intelligent Manufacturing</i> , 2012, 23, 2357-2366.	7.3	52
13	Dynamic scheduling in RFID-driven discrete manufacturing system by using multi-layer network metrics as heuristic information. <i>Journal of Intelligent Manufacturing</i> , 2019, 30, 979-994.	7.3	52
14	Recognition of control chart patterns using fuzzy SVM with a hybrid kernel function. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 51-67.	7.3	49
15	Environmental and economic sustainability-aware resource service scheduling for industrial product service systems. <i>Journal of Intelligent Manufacturing</i> , 2017, 28, 1303-1316.	7.3	48
16	Manufacturing Knowledge Graph: A Connectivism to Answer Production Problems Query With Knowledge Reuse. <i>IEEE Access</i> , 2019, 7, 101231-101244.	4.2	48
17	Product platform design for a product family based on Kansei engineering. <i>Journal of Engineering Design</i> , 2009, 20, 589-607.	2.3	47
18	Modeling and analyzing of an enterprise relationship network in the context of social manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 752-769.	2.4	47

#	ARTICLE	IF	CITATIONS
19	Real-time quality monitoring and predicting model based on error propagation networks for multistage machining processes. <i>Journal of Intelligent Manufacturing</i> , 2014, 25, 521-538.	7.3	46
20	Implementing of a three-phase integrated decision support model for parts machining outsourcing. <i>International Journal of Production Research</i> , 2014, 52, 3614-3636.	7.5	45
21	Manifold learning based rescheduling decision mechanism for recessive disturbances in RFID-driven job shops. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 1485-1500.	7.3	44
22	A game-theory approach for job scheduling in networked manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2009, 41, 972-985.	3.0	43
23	Contextual self-organizing of manufacturing process for mass individualization: a cyber-physical-social system approach. <i>Enterprise Information Systems</i> , 2020, 14, 1124-1149.	4.7	42
24	Modelling on service capability maturity and resource configuration for public warehouse product service systems. <i>International Journal of Production Research</i> , 2013, 51, 1898-1921.	7.5	34
25	A survey of feature modeling methods: Historical evolution and new development. <i>Robotics and Computer-Integrated Manufacturing</i> , 2020, 61, 101851.	9.9	34
26	Outsourcerâ€™supplier coordination for parts machining outsourcing under social manufacturing. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 1078-1090.	2.4	33
27	Granular computingâ€™based development of service process reference models in social manufacturing contexts. <i>Concurrent Engineering Research and Applications</i> , 2017, 25, 95-107.	3.2	31
28	Incorporating social sensors, cyber-physical system nodes, and smart products for personalized production in a social manufacturing environment. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 2323-2338.	2.4	31
29	Recognizing control chart patterns with neural network and numerical fitting. <i>Journal of Intelligent Manufacturing</i> , 2009, 20, 625-635.	7.3	30
30	Configuration Design of the Add-on Cyber-physical System with CNC Machine Tools and its Application Perspectives. <i>Procedia CIRP</i> , 2016, 56, 360-365.	1.9	30
31	Evaluation across and within collaborative manufacturing networks: a comparison of manufacturersâ€™ interactions and attributes. <i>International Journal of Production Research</i> , 2018, 56, 5131-5146.	7.5	30
32	A hybrid-data-on-tagâ€™enabled decentralized control system for flexible smart workpiece manufacturing shop floors. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 764-782.	2.1	29
33	Multiple-attribute decision-making approach for an energy-efficient facility layout design. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 66, 795-807.	3.0	28
34	RFID-Enabled Physical Object Tracking in Process Flow Based on an Enhanced Graphical Deduction Modeling Method. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 3006-3018.	9.3	27
35	Variation source identification for deep hole boring process of cutting-hard workpiece based on multi-source information fusion using evidence theory. <i>Journal of Intelligent Manufacturing</i> , 2017, 28, 255-270.	7.3	27
36	Shared factory: A new production node for social manufacturing in the context of sharing economy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 285-294.	2.4	26

#	ARTICLE	IF	CITATIONS
37	A game-theoretic approach to generating optimal process plans of multiple jobs in networked manufacturing. International Journal of Computer Integrated Manufacturing, 2010, 23, 1118-1132.	4.6	25
38	A framework of credit assurance mechanism for manufacturing services under social manufacturing context. , 2017, , .		25
39	An RFID-Driven Graphical Formalized Deduction for Describing the Time-Sensitive State and Position Changes of Work-in-Progress Material Flows in a Job-Shop Floor. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	2.2	24
40	Multi-objective optimization of facility planning for energy intensive companies. Journal of Intelligent Manufacturing, 2013, 24, 1095-1109.	7.3	23
41	Mining and Matching Relationships From Interaction Contexts in a Social Manufacturing Paradigm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-13.	9.3	22
42	Integration of value stream mapping with DMAIC for concurrent Lean-Kaizen: A case study on an air-conditioner assembly line. Advances in Mechanical Engineering, 2019, 11, 168781401982711.	1.6	21
43	The configuration of social manufacturing: a social intelligence way toward service-oriented manufacturing. International Journal of Manufacturing Research, 2017, 12, 4.	0.2	19
44	Enhanced agents in shared factory: Enabling high-efficiency self-organization and sustainability of the shared manufacturing resources. Journal of Cleaner Production, 2021, 292, 126020.	9.3	19
45	Incorporating Social Sensors and CPS Nodes for Personalized Production under Social Manufacturing Environment. Procedia CIRP, 2016, 56, 366-371.	1.9	18
46	Real-time data-driven monitoring in job-shop floor based on radio frequency identification. International Journal of Advanced Manufacturing Technology, 2017, 92, 2099-2120.	3.0	18
47	RFID-Driven Energy-Efficient Control Approach of CNC Machine Tools Using Deep Belief Networks. IEEE Transactions on Automation Science and Engineering, 2020, 17, 129-141.	5.2	18
48	Socialized and self-organized collaborative designer community-resilience modeling and assessment. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2020, 31, 3-24.	2.1	18
49	Social manufacturing: A survey of the state-of-the-art and future challenges. , 2016, , .		17
50	Deep learning and complex network theory based analysis on socialized manufacturing resources utilisations and an application case study. Concurrent Engineering Research and Applications, 2021, 29, 236-248.	3.2	17
51	Experimental investigation and multi-objective optimization approach for low-carbon milling operation of aluminum. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2753-2772.	2.1	16
52	Energy-aware integration of process planning and scheduling of advanced machining workshop. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 2040-2055.	2.4	15
53	Analysis of personalized production organizing and operating mechanism in a social manufacturing environment. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2670-2676.	2.4	15
54	Demand-based manufacturing service capability estimation of a manufacturing system in a social manufacturing environment. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1275-1297.	2.4	14

#	ARTICLE	IF	CITATIONS
55	Complexity analysis of distributed measuring and sensing network in multistage machining processes. <i>Journal of Intelligent Manufacturing</i> , 2013, 24, 55-69.	7.3	13
56	An Enhanced DMAIC Method for Feature-Driven Continuous Quality Improvement for Multi-Stage Machining Processes in One-of-a-Kind and Small-Batch Production. <i>IEEE Access</i> , 2019, 7, 32492-32503.	4.2	13
57	Investigation on industrial dataspace for advanced machining workshops: enabling machining operations control with domain knowledge and application case studies. <i>Journal of Intelligent Manufacturing</i> , 2022, 33, 103-119.	7.3	13
58	Real-time order scheduling and execution monitoring in public warehouses based on radio frequency identification. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2473-2494.	3.0	12
59	A resource-oriented middleware in a prototype cyber-physical manufacturing system. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 2339-2352.	2.4	12
60	Sustainability Evaluation of Process Planning for Single CNC Machine Tool under the Consideration of Energy-Efficient Control Strategies Using Random Forests. <i>Sustainability</i> , 2019, 11, 3060.	3.2	12
61	Cutting-tool delivery method in the context of industrial product service systems. <i>Concurrent Engineering Research and Applications</i> , 2016, 24, 178-190.	3.2	11
62	Costing-based coordination between mt-iPSS customer and providers for job shop production using game theory. <i>International Journal of Production Research</i> , 2017, 55, 430-446.	7.5	11
63	A distributed configuration scheme for warehouse product service system. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401770643.	1.6	11
64	3D-feature-based structure design for silicon fabrication of micro devices. <i>Microsystem Technologies</i> , 2007, 13, 701-714.	2.0	10
65	An e-quality control model for multistage machining processes of workpieces. <i>Science in China Series D: Earth Sciences</i> , 2008, 51, 2178-2194.	0.9	10
66	A radio frequency identification based optimal material delivery method for digital plant production. <i>International Journal of Computer Integrated Manufacturing</i> , 2011, 24, 493-505.	4.6	10
67	An investigation on establishing small- and medium-sized enterprises communities under the environment of social manufacturing. <i>Concurrent Engineering Research and Applications</i> , 2018, 26, 251-264.	3.2	10
68	A collective intelligence oriented three-layer framework for socialized and collaborative product design. <i>Expert Systems With Applications</i> , 2021, 173, 114742.	7.6	10
69	A blockchain-driven cyber-credit evaluation approach for establishing reliable cooperation among unauthentic MSMEs in social manufacturing. <i>Industrial Management and Data Systems</i> , 2020, 121, 724-749.	3.7	10
70	Adaptability analysis of design for additive manufacturing by using fuzzy Bayesian network approach. <i>Advanced Engineering Informatics</i> , 2022, 52, 101613.	8.0	10
71	Sensitivity analysis-based dynamic process capability evaluation for small batch production runs. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 1855-1869.	2.4	9
72	Production events graphical deduction model enabled real-time production control system for smart job shop. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2018, 232, 2803-2820.	2.1	9

#	ARTICLE	IF	CITATIONS
73	An integrated approach of Active Incremental fine-tuning, SegNet, and CRF for cutting tool wearing areas segmentation with small samples. Knowledge-Based Systems, 2021, 218, 106838.	7.1	8
74	Social Manufacturing: What are its key fundamentals?. IFAC-PapersOnLine, 2020, 53, 65-70.	0.9	8
75	Unequal area facility layout problem-solving: a real case study on an air-conditioner production shop floor. International Journal of Production Research, 2023, 61, 1479-1496.	7.5	8
76	Task-driven e-manufacturing resource configurable model. Journal of Intelligent Manufacturing, 2012, 23, 1681-1694.	7.3	7
77	An extended machining error propagation network model for small-batch machining process control of aircraft landing gear parts. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2017, 231, 1347-1365.	1.3	7
78	Social Production System: A Three-Layer Smart Framework for Implementing Autonomous Human-Machine Collaborations in a Shop Floor. IEEE Access, 2021, 9, 26696-26711.	4.2	7
79	A Design for Additive Manufacturing Framework: Product Function Integration and Structure Simplification. IFAC-PapersOnLine, 2020, 53, 77-82.	0.9	7
80	Fluctuation evaluation and identification model for small-batch multistage machining processes of complex aircraft parts. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 1820-1837.	2.4	6
81	Mini-MES: A Microservices-Based Apps System for Data Interconnecting and Production Controlling in Decentralized Manufacturing. Applied Sciences (Switzerland), 2019, 9, 3675.	2.5	6
82	Manufacturing service order allocation in the context of social manufacturing based on Stackelberg game. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 1890-1901.	2.4	6
83	Study on manufacturing information sharing and tracking for extended enterprises. International Journal of Advanced Manufacturing Technology, 2007, 34, 790-798.	3.0	5
84	Method of change management based on dynamic machining error propagation. Science in China Series D: Earth Sciences, 2009, 52, 1811-1820.	0.9	5
85	Social factory as a production node of social manufacturing. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 5144-5160.	2.1	5
86	Sensitivity analysis-based process stability evaluation for one-of-a-kind production. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 63-77.	2.1	5
87	Improved Bayesian Causal Map Approach for Community-Based Product Design Project Feasibility Analysis. IEEE Transactions on Engineering Management, 2020, 67, 794-812.	3.5	5
88	A Manufacturing Network Modeling and Evolution Characterizing Approach for Self-Organization Among Distributed MSMEs Under Social Manufacturing Context. IEEE Access, 2020, 8, 119236-119251.	4.2	5
89	A Heuristic Grafting Strategy for Manufacturing Knowledge Graph Extending and Completion Based on Nature Language Processing: KnowTree. IEEE Access, 2021, 9, 90847-90862.	4.2	5
90	Social Manufacturing Paradigm: Concepts, Architecture and Key Enabled Technologies. Springer Series in Advanced Manufacturing, 2019, , 13-50.	0.5	5

#	ARTICLE	IF	CITATIONS
91	The production instruction system for smart job shop. , 2016, , .		4
92	A decision-making model for knowledge collaboration and reuse through scientific workflow. Advanced Engineering Informatics, 2021, 49, 101345.	8.0	4
93	Social Manufacturing: Fundamentals and Applications. Springer Series in Advanced Manufacturing, 2019, , .	0.5	4
94	Combining the strength of centralized control and distributed autonomy for crowdsourcing design: An integrated model of Blackboard and Bayesian network. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 1084-1097.	2.4	4
95	Blockchain Models for Cyber-Credits of Social Manufacturing. Springer Series in Advanced Manufacturing, 2019, , 197-217.	0.5	3
96	Industrial Dataspace: A Broker to Run Cyber-Physical-Social Production System in Level of Machining Workshops. , 2019, , .		3
97	Consortium blockchain-driven decentralized organization and operation for manufacturing community in social manufacturing. , 2020, , .		3
98	Industrial Cases Concerning Social Manufacturing. Springer Series in Advanced Manufacturing, 2019, , 271-299.	0.5	3
99	Socialized Manufacturing Resources and Interconnections. Springer Series in Advanced Manufacturing, 2019, , 51-65.	0.5	3
100	Using iPSS as a new run-time for service-oriented manufacturing executive systems. , 2009, , .		2
101	The approach of hybrid data on tag in decentralized control system. , 2015, , .		2
102	Knowledge-based innovative methods for collaborative quality control in equipment outsourcing chain. , 2017, , .		2
103	P-SaaS: knowledge service oriented manufacturing workflow model for knowledge collaboration and reuse*. , 2020, , .		2
104	Open Product Design for Social Manufacturing. Springer Series in Advanced Manufacturing, 2019, , 93-116.	0.5	2
105	An Industry 4.0 Platform for Equipment Monitoring and Maintaining in Carbon Anode Production. IFAC-PapersOnLine, 2022, 55, 37-41.	0.9	2
106	A methodology to estimate power consumption of numerical control machining. , 2013, , .		1
107	Embedded-web-based remote control for RepRap-based open-source 3D printers. , 2017, , .		1
108	Modeling of Machining Errorsâ€™ Accumulation Driven by RFID Graphical Deduction Computing in Multistage Machining Processes. IEEE Transactions on Industrial Informatics, 2021, 17, 3971-3981.	11.3	1

#	ARTICLE	IF	CITATIONS
109	Investigation on quantitative analysis of carbon footprint in discrete manufacturing by using the innovative energy dataspace approach. Manufacturing Letters, 2021, 27, 58-62.	2.2	1
110	Framework for designing a smart connected product service system. , 2021, , .		1
111	Dynamic scheduling in RFID-driven discrete manufacturing system by using multi-layer network metrics as heuristic information. , 2019, 30, 979.		1
112	Social Business Relationship and Organizational Network. Springer Series in Advanced Manufacturing, 2019, , 67-92.	0.5	1
113	Execution of Social Manufacturing. Springer Series in Advanced Manufacturing, 2019, , 245-270.	0.5	1
114	Configuration of Social Manufacturing System. Springer Series in Advanced Manufacturing, 2019, , 219-243.	0.5	1
115	Performance analysis of collaborative design network. , 2012, , .		0
116	Evaluating part machining processes for low-carbon and energy-efficiency contexts on web. , 2013, , .		0
117	Constraint solving method for hydraulic fracturing product service system configuration. , 2015, , .		0
118	The SOD Modeling Method in CAD System for Hydraulic Fracturing PSS Design. , 2015, , .		0
119	An integrated pattern using different innovation methods for makers' product development. , 2017, , .		0
120	Social Factory and Interconnections. Springer Series in Advanced Manufacturing, 2019, , 147-169.	0.5	0