

Guodong Shao

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

679
citations

840776

11
h-index

888059

17
g-index

34
all docs

34
docs citations

34
times ranked

560
citing authors

#	ARTICLE	IF	CITATIONS
1	Framework for a digital twin in manufacturing: Scope and requirements. <i>Manufacturing Letters</i> , 2020, 24, 105-107.	2.2	147
2	Manufacturing data analytics using a virtual factory representation. <i>International Journal of Production Research</i> , 2017, 55, 5450-5464.	7.5	73
3	Data analytics using simulation for smart manufacturing. , 2014, , .		66
4	Soil quality assessment under different forest types in the Mount Tai, central Eastern China. <i>Ecological Indicators</i> , 2020, 115, 106439.	6.3	51
5	A decision-guidance framework for sustainability performance analysis of manufacturing processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1455-1471.	3.0	34
6	DIGITAL MANUFACTURING: REQUIREMENTS AND CHALLENGES FOR IMPLEMENTING DIGITAL SURROGATES. , 2018, , .		28
7	A test implementation of the core manufacturing simulation data specification. , 2007, , .		26
8	Developing a decision support system for improving sustainability performance of manufacturing processes. <i>Journal of Intelligent Manufacturing</i> , 2017, 28, 1421-1440.	7.3	24
9	Process analytics formalism for decision guidance in sustainable manufacturing. <i>Journal of Intelligent Manufacturing</i> , 2016, 27, 561-580.	7.3	20
10	Decision guidance methodology for sustainable manufacturing using process analytics formalism. <i>Journal of Intelligent Manufacturing</i> , 2017, 28, 455-472.	7.3	20
11	Virtual factory revisited for manufacturing data analytics. , 2014, , .		18
12	Analysis and optimization based on reusable knowledge base of process performance models. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 337-357.	3.0	17
13	Integrating data analytics and simulation methods to support manufacturing decision making. , 2015, 2015, 2100-2111.		14
14	Implementations of the Tennessee Eastman Process in Modelica. <i>IFAC-PapersOnLine</i> , 2018, 51, 619-624.	0.9	14
15	Enhanced soil quality after forest conversion to vegetable cropland and tea plantations has contrasting effects on soil microbial structure and functions. <i>Catena</i> , 2022, 211, 106029.	5.0	14
16	Energy efficiency analysis for a casting production system. , 2011, , .		12
17	Modeling and optimization of manufacturing process performance using Modelica graphical representation and process analytics formalism. <i>Journal of Intelligent Manufacturing</i> , 2018, 29, 1287-1301.	7.3	12
18	Standards-based integration of advanced process control and optimization. <i>Journal of Industrial Information Integration</i> , 2019, 13, 1-12.	6.4	11

#	ARTICLE	IF	CITATIONS
19	A decision support methodology for integrated machining process and operation plans for sustainability and productivity assessment. International Journal of Advanced Manufacturing Technology, 2020, 107, 3207-3230.	3.0	11
20	Simulation of shipbuilding operations. , 0, , .		10
21	Interoperability for simulation of sustainable manufacturing. , 2010, , .		10
22	Integrating A Dynamic Simulator and Advanced Process Control using the OPC-UA Standard. Procedia Manufacturing, 2019, 34, 813-819.	1.9	9
23	Analysis and optimization in smart manufacturing based on a reusable knowledge base for process performance models. , 2015, , .		7
24	Using Simulation and Digital Twins to Innovate: Are we Getting Smarter?. , 2021, , .		6
25	Decision support for sustainable manufacturing using decision guidance query language. International Journal of Sustainable Engineering, 2011, 4, 251-265.	3.5	5
26	A Simulation-based Methodology of Assessing Environmental Sustainability and Productivity for Integrated Process and Production Plans. Procedia Manufacturing, 2015, 1, 193-204.	1.9	5
27	A framework for interoperable sustainable manufacturing process analysis applications development. , 2012, , .		4
28	Framework for standardization of simulation integrated production planning. , 2016, , .		4
29	Buiding a Digital Twin for Robot Workcell Prognostics And Health Management. , 2021, , .		3
30	Implementing the ISO 15746 Standard for Chemical Process Optimization. , 2016, 2, .		2
31	Virtual Factory Framework for Supporting Production Planning and Control. IFIP Advances in Information and Communication Technology, 2016, APMS 2016, 291-298.	0.7	1
32	Integrating Data Mining and Simulation Optimization for Decision Making in Manufacturing. , 2017, , 81-105.		0
33	ENABLING CONTROL SYSTEM AND CLOUD-BASED SIMULATION SERVICE INTEROPERABILITY. , 2018, , .		0