Jianxin Jiao

List of Publications by Year in descending order

76 papers	4,383 citations	126907 33 h-index	144013 57 g-index
76 all docs	76 docs citations	76 times ranked	1925 citing authors

#	Article	IF	Citations
1	Towards augmenting cyber-physical-human collaborative cognition for human-automation interaction in complex manufacturing and operational environments. International Journal of Production Research, 2020, 58, 5089-5111.	7.5	39
2	Editorial: Scientific advances in product experience engineering. Journal of Intelligent Manufacturing, 2017, 28, 1581-1584.	7.3	3
3	Hierarchical game joint optimization for product family-driven modular design. Journal of the Operational Research Society, 2016, 67, 1496-1509.	3.4	20
4	Joint optimization for coordinated configuration of product families and supply chains by a leader-follower Stackelberg game. European Journal of Operational Research, 2015, 246, 263-280.	5.7	106
5	Logical reconfiguration of reconfigurable manufacturing systems with stream of variations modelling: a stochastic two-stage programming and shortest path model. International Journal of Production Research, 2014, 52, 1401-1418.	7.5	16
6	Product platform flexibility planning by hybrid real options analysis. IIE Transactions, 2012, 44, 431-445.	2.1	33
7	Early Supplier Involvement in Online Product Configuration for Mass Customization. , 2011, , .		0
8	A Fundamental Framework of Business Process Reengineering Methodology Based on IT. , 2010, , .		3
9	A dynamic differential evolution algorithm for mixed logit discrete choice model estimation. , 2010, , .		0
10	Design economics of product platforms for enterprise sustainability towards mass customization. , 2009, , .		0
11	A control scheme for monitoring the frequency and magnitude of an event. International Journal of Production Research, 2009, 47, 2887-2902.	7.5	54
12	Modeling the Design Process of Product Variants With Timed Colored Petri Nets. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, .	2.9	9
13	Modeling production configuration using nested colored object-oriented Petri-nets with changeable structures. Journal of Intelligent Manufacturing, 2009, 20, 359-378.	7.3	14
14	An enhanced adaptive CUSUM control chart. IIE Transactions, 2009, 41, 642-653.	2.1	149
15	A control chart for monitoring process mean based on attribute inspection. International Journal of Production Research, 2008, 46, 4331-4347.	7.5	48
16	A binomial CUSUM chart for detecting large shifts in fraction nonconforming. Journal of Applied Statistics, 2008, 35, 1267-1276.	1.3	28
17	Market segmentation for product family positioning based on fuzzy clustering. Journal of Engineering Design, 2007, 18, 227-241.	2.3	49
18	A financial model of flexible manufacturing systems planning under uncertainty: identification, valuation and applications of real options. International Journal of Production Research, 2007, 45, 1389-1404.	7.5	14

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19	Evaluating and Improving the Unit and Group-Runs Chart. Journal of Quality Technology, 2007, 39, 355-363.	2.5	9
20	A web-based product portfolio decision support system. International Journal of Manufacturing Technology and Management, 2007, 11, 296.	0.1	1
21	A heuristic genetic algorithm for product portfolio planning. Computers and Operations Research, 2007, 34, 1777-1799.	4.0	65
22	Identifying generic routings for product families based on text mining and tree matching. Decision Support Systems, 2007, 43, 866-883.	5.9	30
23	Process Platform Planning for Variety Coordination From Design to Production in Mass Customization Manufacturing. IEEE Transactions on Engineering Management, 2007, 54, 112-129.	3.5	69
24	Product family design and platform-based product development: a state-of-the-art review. Journal of Intelligent Manufacturing, 2007, 18, 5-29.	7.3	651
25	A generic genetic algorithm for product family design. Journal of Intelligent Manufacturing, 2007, 18, 233-247.	7.3	46
26	Affective Human Factors Design with Ambient Intelligence. Communications in Computer and Information Science, 2007, , 301-313.	0.5	2
27	Customer Requirement Management in Product Development: A Review of Research Issues. Concurrent Engineering Research and Applications, 2006, 14, 173-185.	3.2	154
28	A JDF-based Framework of Computer Integrated Printing Manufacturing. , 2006, , .		0
29	Process Platform and Production Configuration for Integrated Manufacturing and Service. , 2006, , .		5
30	Integrated Product and Process Family Data Modeling for Product Lifecycle Management. , 2006, , .		3
31	A Web-based interactive advisor for assembly line balancing. International Journal of Advanced Manufacturing Technology, 2006, 27, 1192-1201.	3.0	4
32	A real-option approach to flexibility planning in reconfigurable manufacturing systems. International Journal of Advanced Manufacturing Technology, 2006, 28, 1202-1210.	3.0	11
33	Flexibility valuation of product family architecture: a real-option approach. International Journal of Advanced Manufacturing Technology, 2006, 30, 1-9.	3.0	25
34	Understanding customer satisfaction in product customization. International Journal of Advanced Manufacturing Technology, 2006, 31, 396-406.	3.0	95
35	Development of an electronic configure-to-order platform for customized product development. Computers in Industry, 2006, 57, 231-244.	9.9	53
36	Real Options Identification and Valuation for the Financial Analysis of Product Family Design. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 929-939.	2.4	8

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37	A Practice of Total Cost Management for Integrated Product and Production Data Management. , 2006, , .		1
38	A Text Mining-based Recommendation System for Customer Decision Making in Online Product Customization. , 2006, , .		3
39	Product portfolio identification based on association rule mining. CAD Computer Aided Design, 2005, 37, 149-172.	2.7	138
40	Product portfolio planning with customer-engineering interaction. IIE Transactions, 2005, 37, 801-814.	2.1	143
41	Integrated BOM and routing generator for variety synchronization in assembly‑to‑order production. Journal of Manufacturing Technology Management, 2005, 16, 233-243.	6.4	16
42	Design of an unplasticized polyvinyl chloride pipe fitting injection mould with a three-stage collapsible core. Journal of Engineering Design, 2004, 15, 597-613.	2.3	0
43	Process Variety Modeling for Process Configuration in Mass Customization: An Approach Based on Object-Oriented Petri Nets with Changeable Structures. Flexible Services and Manufacturing Journal, 2004, 16, 335-361.	0.4	16
44	Customizability analysis in design for mass customization. CAD Computer Aided Design, 2004, 36, 745-757.	2.7	159
45	A domain-based reference model for the conceptualization of factory loading allocation problems in multi-site manufacturing supply chains. Technovation, 2004, 24, 631-642.	7.8	25
46	Customizability Index Based on Information Content. CIRP Annals - Manufacturing Technology, 2003, 52, 121-124.	3.6	7
47	Towards high value-added products and services: mass customization and beyond. Technovation, 2003, 23, 809-821.	7.8	196
48	Identifying customer need patterns for customization and personalization. Journal of Manufacturing Technology Management, 2003, 14, 387-396.	0.5	56
49	Product Families for Mass Customization. , 2003, , 123-161.		6
50	Graph Grammar Based Product Family Modeling. Concurrent Engineering Research and Applications, 2002, 10, 113-128.	3.2	53
51	Product family modeling and design support: An approach based on graph rewriting systems. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2002, 16, 103-120.	1.1	24
52	Research on E-product development (ePD) for mass customization. Technovation, 2002, 22, 717-724.	7.8	56
53	Architecture of Product Family: Fundamentals and Methodology. Concurrent Engineering Research and Applications, 2001, 9, 309-325.	3.2	163
54	Fundamentals of product family architecture. Journal of Manufacturing Technology Management, 2000, 11, 469-483.	0.5	118

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55	Generic Bill-of-Materials-and-Operations for High-Variety Production Management. Concurrent Engineering Research and Applications, 2000, 8, 297-321.	3.2	59
56	Understanding product family for mass customization by developing commonality indices. Journal of Engineering Design, 2000, 11, 225-243.	2.3	162
57	Generic Bill-of-Materials-and-Operations for High-Variety Production Management. Concurrent Engineering Research and Applications, 2000, 8, 297-321.	3.2	105
58	An Information Modeling Framework for Product Families to Support Mass Customization Manufacturing. CIRP Annals - Manufacturing Technology, 1999, 48, 93-98.	3.6	33
59	A methodology of developing product family architecture for mass customization. Journal of Intelligent Manufacturing, 1999, 10, 3-20.	7.3	236
60	A pragmatic approach to product costing based on standard time estimation. International Journal of Operations and Production Management, 1999, 19, 738-755.	5.9	48
61	Product family modeling for mass customization. Computers and Industrial Engineering, 1998, 35, 495-498.	6.3	109
62	Fuzzy Ranking for Concept Evaluation in Configuration Design for Mass Customization. Concurrent Engineering Research and Applications, 1998, 6, 189-206.	3.2	41
63	Computer-Aided Requirement Management for Product Definition: A Methodology and Implementation. Concurrent Engineering Research and Applications, 1998, 6, 145-160.	3.2	57
64	Virtual prototyping for customized product development. Journal of Manufacturing Technology Management, 1998, 9, 334-343.	0.5	63
65	Concurrent design for mass customization. Business Process Management Journal, 1998, 4, 10-24.	4.2	40
66	A Variant Approach to Product Definition by Recognizing Functional Requirement Patterns. Journal of Engineering Design, 1997, 8, 329-340.	2.3	27
67	Case-based evolutionary design for mass customization. Computers and Industrial Engineering, 1997, 33, 319-323.	6.3	28
68	A variant approach to product definition by recognizing functional requirement patterns. Computers and Industrial Engineering, 1997, 33, 629-633.	6.3	15
69	Design for Mass Customization. CIRP Annals - Manufacturing Technology, 1996, 45, 153-156.	3.6	332
70	A framework of virtual design for product customization. , 0, , .		15
71	Product definition for effective customer order processing: a customer-oriented approach. , 0, , .		0
72	Product definition for effective customer order processing: a customer-oriented approach. , 0, , .		2

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73	Architecture of product family for mass customization. , 0, , .		14
74	E-product development (ePD) for mass customization. , 0, , .		1
75	A security blueprint for e-business applications based on the three-tier architecture. , 0, , .		0
76	A heuristic genetic algorithm for product portfolio planning. , 0, , .		0