

Jianxin Jiao

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

4,383
citations

126708

33
h-index

143772

57
g-index

76
all docs

76
docs citations

76
times ranked

1925
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Product family design and platform-based product development: a state-of-the-art review. Journal of Intelligent Manufacturing, 2007, 18, 5-29. | 4.4 | 651 |
| 2 | Design for Mass Customization. CIRP Annals - Manufacturing Technology, 1996, 45, 153-156. | 1.7 | 332 |
| 3 | A methodology of developing product family architecture for mass customization. Journal of Intelligent Manufacturing, 1999, 10, 3-20. | 4.4 | 236 |
| 4 | Towards high value-added products and services: mass customization and beyond. Technovation, 2003, 23, 809-821. | 4.2 | 196 |
| 5 | Architecture of Product Family: Fundamentals and Methodology. Concurrent Engineering Research and Applications, 2001, 9, 309-325. | 2.0 | 163 |
| 6 | Understanding product family for mass customization by developing commonality indices. Journal of Engineering Design, 2000, 11, 225-243. | 1.1 | 162 |
| 7 | Customizability analysis in design for mass customization. CAD Computer Aided Design, 2004, 36, 745-757. | 1.4 | 159 |
| 8 | Customer Requirement Management in Product Development: A Review of Research Issues. Concurrent Engineering Research and Applications, 2006, 14, 173-185. | 2.0 | 154 |
| 9 | An enhanced adaptive CUSUM control chart. IIE Transactions, 2009, 41, 642-653. | 2.1 | 149 |
| 10 | Product portfolio planning with customer-engineering interaction. IIE Transactions, 2005, 37, 801-814. | 2.1 | 143 |
| 11 | Product portfolio identification based on association rule mining. CAD Computer Aided Design, 2005, 37, 149-172. | 1.4 | 138 |
| 12 | Fundamentals of product family architecture. Journal of Manufacturing Technology Management, 2000, 11, 469-483. | 0.5 | 118 |
| 13 | Product family modeling for mass customization. Computers and Industrial Engineering, 1998, 35, 495-498. | 3.4 | 109 |
| 14 | 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. | 3.5 | 106 |
| 15 | Generic Bill-of-Materials-and-Operations for High-Variety Production Management. Concurrent Engineering Research and Applications, 2000, 8, 297-321. | 2.0 | 105 |
| 16 | Understanding customer satisfaction in product customization. International Journal of Advanced Manufacturing Technology, 2006, 31, 396-406. | 1.5 | 95 |
| 17 | Process Platform Planning for Variety Coordination From Design to Production in Mass Customization Manufacturing. IEEE Transactions on Engineering Management, 2007, 54, 112-129. | 2.4 | 69 |
| 18 | A heuristic genetic algorithm for product portfolio planning. Computers and Operations Research, 2007, 34, 1777-1799. | 2.4 | 65 |

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|----|--|-----|-----------|
| 19 | Virtual prototyping for customized product development. Journal of Manufacturing Technology Management, 1998, 9, 334-343. | 0.5 | 63 |
| 20 | Generic Bill-of-Materials-and-Operations for High-Variety Production Management. Concurrent Engineering Research and Applications, 2000, 8, 297-321. | 2.0 | 59 |
| 21 | Computer-Aided Requirement Management for Product Definition: A Methodology and Implementation. Concurrent Engineering Research and Applications, 1998, 6, 145-160. | 2.0 | 57 |
| 22 | Research on E-product development (ePD) for mass customization. Technovation, 2002, 22, 717-724. | 4.2 | 56 |
| 23 | Identifying customer need patterns for customization and personalization. Journal of Manufacturing Technology Management, 2003, 14, 387-396. | 0.5 | 56 |
| 24 | A control scheme for monitoring the frequency and magnitude of an event. International Journal of Production Research, 2009, 47, 2887-2902. | 4.9 | 54 |
| 25 | Graph Grammar Based Product Family Modeling. Concurrent Engineering Research and Applications, 2002, 10, 113-128. | 2.0 | 53 |
| 26 | Development of an electronic configure-to-order platform for customized product development. Computers in Industry, 2006, 57, 231-244. | 5.7 | 53 |
| 27 | Market segmentation for product family positioning based on fuzzy clustering. Journal of Engineering Design, 2007, 18, 227-241. | 1.1 | 49 |
| 28 | A pragmatic approach to product costing based on standard time estimation. International Journal of Operations and Production Management, 1999, 19, 738-755. | 3.5 | 48 |
| 29 | A control chart for monitoring process mean based on attribute inspection. International Journal of Production Research, 2008, 46, 4331-4347. | 4.9 | 48 |
| 30 | A generic genetic algorithm for product family design. Journal of Intelligent Manufacturing, 2007, 18, 233-247. | 4.4 | 46 |
| 31 | Fuzzy Ranking for Concept Evaluation in Configuration Design for Mass Customization. Concurrent Engineering Research and Applications, 1998, 6, 189-206. | 2.0 | 41 |
| 32 | Concurrent design for mass customization. Business Process Management Journal, 1998, 4, 10-24. | 2.4 | 40 |
| 33 | 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. | 4.9 | 39 |
| 34 | An Information Modeling Framework for Product Families to Support Mass Customization Manufacturing. CIRP Annals - Manufacturing Technology, 1999, 48, 93-98. | 1.7 | 33 |
| 35 | Product platform flexibility planning by hybrid real options analysis. IIE Transactions, 2012, 44, 431-445. | 2.1 | 33 |
| 36 | Identifying generic routings for product families based on text mining and tree matching. Decision Support Systems, 2007, 43, 866-883. | 3.5 | 30 |

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| 37 | Case-based evolutionary design for mass customization. Computers and Industrial Engineering, 1997, 33, 319-323. | 3.4 | 28 |
| 38 | A binomial CUSUM chart for detecting large shifts in fraction nonconforming. Journal of Applied Statistics, 2008, 35, 1267-1276. | 0.6 | 28 |
| 39 | A Variant Approach to Product Definition by Recognizing Functional Requirement Patterns. Journal of Engineering Design, 1997, 8, 329-340. | 1.1 | 27 |
| 40 | A domain-based reference model for the conceptualization of factory loading allocation problems in multi-site manufacturing supply chains. Technovation, 2004, 24, 631-642. | 4.2 | 25 |
| 41 | Flexibility valuation of product family architecture: a real-option approach. International Journal of Advanced Manufacturing Technology, 2006, 30, 1-9. | 1.5 | 25 |
| 42 | 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. | 0.7 | 24 |
| 43 | Hierarchical game joint optimization for product family-driven modular design. Journal of the Operational Research Society, 2016, 67, 1496-1509. | 2.1 | 20 |
| 44 | 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 |
| 45 | Integrated BOM and routing generator for variety synchronization in assembly-to-order production. Journal of Manufacturing Technology Management, 2005, 16, 233-243. | 3.3 | 16 |
| 46 | 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. | 4.9 | 16 |
| 47 | A framework of virtual design for product customization. , 0, , . | | 15 |
| 48 | A variant approach to product definition by recognizing functional requirement patterns. Computers and Industrial Engineering, 1997, 33, 629-633. | 3.4 | 15 |
| 49 | Architecture of product family for mass customization. , 0, , . | | 14 |
| 50 | 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. | 4.9 | 14 |
| 51 | Modeling production configuration using nested colored object-oriented Petri-nets with changeable structures. Journal of Intelligent Manufacturing, 2009, 20, 359-378. | 4.4 | 14 |
| 52 | A real-option approach to flexibility planning in reconfigurable manufacturing systems. International Journal of Advanced Manufacturing Technology, 2006, 28, 1202-1210. | 1.5 | 11 |
| 53 | Evaluating and Improving the Unit and Group-Runs Chart. Journal of Quality Technology, 2007, 39, 355-363. | 1.8 | 9 |
| 54 | Modeling the Design Process of Product Variants With Timed Colored Petri Nets. Journal of Mechanical Design, Transactions of the ASME, 2009, 131, . | 1.7 | 9 |

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|----|--|-----|-----------|
| 55 | 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. | 1.5 | 8 |
| 56 | Customizability Index Based on Information Content. CIRP Annals - Manufacturing Technology, 2003, 52, 121-124. | 1.7 | 7 |
| 57 | Product Families for Mass Customization. , 2003, , 123-161. | | 6 |
| 58 | Process Platform and Production Configuration for Integrated Manufacturing and Service. , 2006, , . | | 5 |
| 59 | A Web-based interactive advisor for assembly line balancing. International Journal of Advanced Manufacturing Technology, 2006, 27, 1192-1201. | 1.5 | 4 |
| 60 | Integrated Product and Process Family Data Modeling for Product Lifecycle Management. , 2006, , . | | 3 |
| 61 | A Text Mining-based Recommendation System for Customer Decision Making in Online Product Customization. , 2006, , . | | 3 |
| 62 | A Fundamental Framework of Business Process Reengineering Methodology Based on IT. , 2010, , . | | 3 |
| 63 | Editorial: Scientific advances in product experience engineering. Journal of Intelligent Manufacturing, 2017, 28, 1581-1584. | 4.4 | 3 |
| 64 | Product definition for effective customer order processing: a customer-oriented approach. , 0, , . | | 2 |
| 65 | Affective Human Factors Design with Ambient Intelligence. Communications in Computer and Information Science, 2007, , 301-313. | 0.4 | 2 |
| 66 | E-product development (ePD) for mass customization. , 0, , . | | 1 |
| 67 | A Practice of Total Cost Management for Integrated Product and Production Data Management. , 2006, , . | | 1 |
| 68 | A web-based product portfolio decision support system. International Journal of Manufacturing Technology and Management, 2007, 11, 296. | 0.1 | 1 |
| 69 | Product definition for effective customer order processing: a customer-oriented approach. , 0, , . | | 0 |
| 70 | Design of an unplasticized polyvinyl chloride pipe fitting injection mould with a three-stage collapsible core. Journal of Engineering Design, 2004, 15, 597-613. | 1.1 | 0 |
| 71 | A security blueprint for e-business applications based on the three-tier architecture. , 0, , . | | 0 |
| 72 | A heuristic genetic algorithm for product portfolio planning. , 0, , . | | 0 |

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|----|---|----|-----------|
| 73 | A JDF-based Framework of Computer Integrated Printing Manufacturing. , 2006, , . | | 0 |
| 74 | Design economics of product platforms for enterprise sustainability towards mass customization. , 2009, , . | | 0 |
| 75 | A dynamic differential evolution algorithm for mixed logit discrete choice model estimation. , 2010, , . | | 0 |
| 76 | Early Supplier Involvement in Online Product Configuration for Mass Customization. , 2011, , . | | 0 |