# GÃ¼l E Kremer

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 95 papers | 1,430 citations | 361413 20 h-index | 395702 33 g-index |
| 95 all docs | 95 docs citations | 95 times ranked | 1295 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A regional information-based multi-attribute and multi-objective decision-making approach for sustainable supplier selection and order allocation. Journal of Cleaner Production, 2018, 187, 590-604. | 9.3 | 76 |
| 2 | A global supply chain risk management framework: An application of text-mining to identify region-specific supply chain risks. Advanced Engineering Informatics, 2020, 45, 101053. | 8.0 | 69 |
| 3 | A fuzzy logic-based approach to determine product component end-of-life option from the views of sustainability and designer's perception. Journal of Cleaner Production, 2015, 108, 289-300. | 9.3 | 67 |
| 4 | A simulation analysis of the impact of FAHPâ€“MAUT triage algorithm on the Emergency Department performance measures. Expert Systems With Applications, 2013, 40, 177-187. | 7.6 | 60 |
| 5 | Supporting medical device development: a standard product design process model. Journal of Engineering Design, 2013, 24, 83-119. | 2.3 | 58 |
| 6 | A systematic literature review of modular product design (MPD) from the perspective of sustainability. International Journal of Advanced Manufacturing Technology, 2016, 86, 1509-1539. | 3.0 | 56 |
| 7 | Investigation of the applicability of Design for X tools during design concept evolution: a literature review. International Journal of Product Development, 2011, 13, 132. | 0.2 | 52 |
| 8 | Motivations and barriers for corporate social responsibility reporting: Evidence from the airline industry. Journal of Air Transport Management, 2016, 57, 184-195. | 4.5 | 52 |
| 9 | A Design Framework for Additive Manufacturing: Integration of Additive Manufacturing Capabilities in the Early Design Process. International Journal of Precision Engineering and Manufacturing, 2020, 21, 329-345. | 2.2 | 51 |
| 10 | Directions for instilling economic and environmental sustainability across product supply chains. Journal of Cleaner Production, 2016, 112, 2066-2078. | 9.3 | 45 |
| 11 | Application of axiomatic design, TRIZ, and mixed integer programming to develop innovative designs: a locomotive ballast arrangement case study. International Journal of Advanced Manufacturing Technology, 2012, 61, 827-842. | 3.0 | 43 |
| 12 | Assessment of static complexity in design and manufacturing of a product family and its impact on manufacturing performance. International Journal of Production Economics, 2015, 169, 215-232. | 8.9 | 41 |
| 13 | Dynamic patient grouping and prioritization: a new approach to emergency department flow improvement. Health Care Management Science, 2016, 19, 192-205. | 2.6 | 41 |
| 14 | A sustainable modular product design approach with key components and uncertain end-of-life strategy consideration. International Journal of Advanced Manufacturing Technology, 2016, 85, 741-763. | 3.0 | 37 |
| 15 | Concept design evaluation by using Z-axiomatic design. Computers in Industry, 2020, 122, 103278. | 9.9 | 36 |
| 16 | A dynamic multi-attribute utility theoryâ€“based decision support system for patient prioritization in the emergency department. IIE Transactions on Healthcare Systems Engineering, 2014, 4, 1-15. | 0.8 | 30 |
| 17 | 3D printing and characterization of hydroxypropyl methylcellulose and methylcellulose for biodegradable support structures. Polymer, 2019, 173, 119-126. | 3.8 | 29 |
| 18 | A comprehensive end-of-life strategy decision making approach to handle uncertainty in the product design stage. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2018, 29, 469-487. | 2.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Simultaneous Consideration of Unit Manufacturing Processes and Supply Chain Activities for Reduction of Product Environmental and Social Impacts. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, . | 2.2 | 25 |
| 20 | 3D Printing and Characterization of Hydroxypropyl Methylcellulose and Methylcellulose for Biodegradable Support Structures. Procedia Manufacturing, 2019, 34, 552-559. | 1.9 | 22 |
| 21 | An Investigation on Centralized and Decentralized Supply Chain Scenarios at the Product Design Stage to Increase Performance. IEEE Transactions on Engineering Management, 2014, 61, 114-128. | 3.5 | 21 |
| 22 | Analysis of modularity implementation methods from an assembly and variety viewpoints. International Journal of Advanced Manufacturing Technology, 2013, 66, 1959-1976. | 3.0 | 20 |
| 23 | A Modular Design Approach to Improve Product Life Cycle Performance Based on the Optimization of a Closed-Loop Supply Chain. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, . | 2.9 | 20 |
| 24 | Differences in the way we decide: The effect of decision style diversity on process conflict in design teams. Personality and Individual Differences, 2017, 104, 339-344. | 2.9 | 20 |
| 25 | A cyberlearning platform for enhancing undergraduate engineering education in sustainable product design. Journal of Cleaner Production, 2019, 211, 730-741. | 9.3 | 20 |
| 26 | Product Modularity and Implications for the Reverse Supply Chain. Supply Chain Forum, 2013, 14, 54-69. | 4.2 | 18 |
| 27 | The Impact of Team-Based Product Dissection on Design Novelty. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, . | 2.9 | 17 |
| 28 | Model comparison in Emergency Severity Index level prediction. Expert Systems With Applications, 2013, 40, 6901-6909. | 7.6 | 16 |
| 29 | An investigation of critical factors in medical device development through Bayesian networks. Expert Systems With Applications, 2013, 40, 7034-7045. | 7.6 | 15 |
| 30 | Observations From Radical Innovation Projects Considering the Company Context. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, . | 2.9 | 15 |
| 31 | Enabling Non-expert Sustainable Manufacturing Process and Supply Chain Analysis During the Early Product Design Phase. Procedia Manufacturing, 2017, 10, 1097-1108. | 1.9 | 15 |
| 32 | A multi-objective robust possibilistic programming approach to sustainable public transportation network design. Fuzzy Sets and Systems, 2021, 422, 106-129. | 2.7 | 15 |
| 33 | Strategic decision making for multiple-generation product lines using dynamic state variable models: The cannibalization case. Computers in Industry, 2014, 65, 79-90. | 9.9 | 14 |
| 34 | An investigation on the network topology of an evolving product family structure and its robustness and complexity. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2019, 30, 381-404. | 2.1 | 14 |
| 35 | Life cycle assessment comparison of wooden and plastic pallets in the grocery industry. Journal of Industrial Ecology, 2020, 24, 871-886. | 5.5 | 14 |
| 36 | Life cycle implications of product modular architectures in closed-loop supply chains. International Journal of Advanced Manufacturing Technology, 2014, 70, 2013-2028. | 3.0 | 13 |

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|---|---|---|---|
| 37 | An investigation of effectiveness differences between in-class and online learning: an engineering drawing case study. International Journal on Interactive Design and Manufacturing, 2019, 13, 89-98. | 2.2 | 12 |
| 38 | Predicting customer satisfaction based on online reviews and hybrid ensemble genetic programming algorithms. Engineering Applications of Artificial Intelligence, 2020, 95, 103902. | 8.1 | 12 |
| 39 | Assessing professional skills in STEM disciplines. , 2013, , . | | 11 |
| 40 | An Investigation on Process Capability Analysis for Fused Filament Fabrication. International Journal of Precision Engineering and Manufacturing, 2020, 21, 759-774. | 2.2 | 11 |
| 41 | Identification of Optimal Process Parameter Settings Based on Manufacturing Performance for Fused Filament Fabrication of CFR-PEEK. Applied Sciences (Switzerland), 2020, 10, 4630. | 2.5 | 11 |
| 42 | The Impact of Product Dissection Activities on the Novelty of Design Outcomes. , 2012, , . | | 10 |
| 43 | A dynamic programming method for product upgrade planning incorporating technology development and end-of-life decisions. Journal of Industrial and Production Engineering, 2017, 34, 30-41. | 3.1 | 9 |
| 44 | Translating Constructionist Learning to Engineering Design Education. Journal of Integrated Design and Process Science, 2017, 21, 3-20. | 0.5 | 9 |
| 45 | A TOOL FOR PRODUCT DEVELOPMENT PERFORMANCE MONITORING (PDPM) FOR ALIGNMENT WITH COMPETITIVE PRIORITIES. International Journal of Information Technology and Decision Making, 2013, 12, 1333-1360. | 3.9 | 7 |
| 46 | Teamwork attitude, interest, and self-efficacy: Their implications for teaching teamwork skills to engineering students. , 2015, , . | | 7 |
| 47 | Exposure to Digital and Hands-on Delivery Modes in Engineering Design Education and Their Impact on Task Completion Efficiency. Journal of Integrated Design and Process Science, 2017, 21, 61-78. | 0.5 | 7 |
| 48 | A key components-based heuristic modular product design approach to reduce product assembly cost. International Journal on Interactive Design and Manufacturing, 2018, 12, 865-875. | 2.2 | 7 |
| 49 | Engineering creativity: Prior experience modulates electrophysiological responses to novel metaphors. Psychophysiology, 2020, 57, e13630. | 2.4 | 7 |
| 50 | Reliability-Informed Life Cycle Warranty Cost and Life Cycle Analysis of Newly Manufactured and Remanufactured Units. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, . | 2.9 | 7 |
| 51 | Experimental and Numerical Investigation on Radial Stiffness of Origami-Inspired Tubular Structures. Journal of Applied Mechanics, Transactions ASME, 2022, 89, . | 2.2 | 7 |
| 52 | Physiological and descriptive variables as predictors for the Emergency Severity Index. IIE Transactions on Healthcare Systems Engineering, 2012, 2, 131-141. | 0.8 | 6 |
| 53 | Managing uncertainty in potential supplier identification. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2014, 28, 339-351. | 1.1 | 6 |
| 54 | Understanding the Impact of Subjective Uncertainty on Architecture and Supplier Identification in Early Complex Systems Design. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2015, 1, . | 1.1 | 6 |

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|---|---|---|---|
| 55 | Topological Characterization of an Evolving Product Structure Network: A Case Study of Generational Smartphone Products. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, . | 2.9 | 6 |
| 56 | Strategic development of flexible manufacturing facilities. Engineering, Construction and Architectural Management, 2020, 27, 1299-1314. | 3.1 | 6 |
| 57 | An Open Online Product Marketplace to Overcome Supply and Demand Chain Inefficiencies in Times of Crisis. Smart and Sustainable Manufacturing Systems, 2020, 4, 20200055. | 0.7 | 6 |
| 58 | A Process-Based Approach for Cradle-to-Gate Energy and Carbon Footprint Reduction in Product Design. , 2012, , . | | 5 |
| 59 | An Analysis of Critical Factors in Medical Device Development to Design for FDA. , 2012, , . | | 5 |
| 60 | A Modular Product Design Approach With Key Components Consideration to Improve Sustainability. , 2014, , . | | 5 |
| 61 | A Modular Product Design Method to Improve Product Social Sustainability Performance. , 2015, , . | | 5 |
| 62 | Enabling Cyber-Based Learning of Product Sustainability Assessment Using Unit Manufacturing Process Analysis. , 2017, , . | | 5 |
| 63 | Applying Text-mining Techniques to Global Supply Chain Region Selection: Considering Regional Differences. Procedia Manufacturing, 2019, 39, 1691-1698. | 1.9 | 5 |
| 64 | An Analysis of Complexity Measures for Product Design and Development. , 2012, , . | | 4 |
| 65 | Design for Additive Manufacturing Inspired by TRIZ. , 2018, , . | | 4 |
| 66 | Linguistic summarization to support supply network decisions. Journal of Intelligent Manufacturing, 2021, 32, 1573-1586. | 7.3 | 4 |
| 67 | Integration of environmental impact estimation in system architecture and supplier identification. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2016, 27, 117-140. | 2.1 | 3 |
| 68 | An intelligent learning framework for Industry 4.0 through automated planning. Computer Applications in Engineering Education, 2021, 29, 624-640. | 3.4 | 3 |
| 69 | Reliability-Informed Economic and Energy Evaluation for Bi-Level Design for Remanufacturing: A Case Study of Transmission and Hydraulic Manifold. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, . | 2.9 | 3 |
| 70 | Information Format and Cognitive Style. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1129-1133. | 0.3 | 2 |
| 71 | An Investigation on the Implications of Design Process Phases on Artifact Novelty. Journal of Mechanical Design, Transactions of the ASME, 2015, 137, . | 2.9 | 2 |
| 72 | Design Education and Engineering Design. Journal of Integrated Design and Process Science, 2017, 21, 1-2. | 0.5 | 2 |

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|---|---|---|---|
| 73 | Instrument Development to Assess Design Project Appropriateness for Domain Relatedness, Ambiquity Tolerance, and Genderedness. , 2018, , . | | 2 |
| 74 | Evolution of supply chain management: a sustainability focused review. International Journal of Sustainable Manufacturing, 2020, 4, 319. | 0.3 | 2 |
| 75 | Integration of product architecture and supply chain under currency exchange rate fluctuation. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2021, 32, 331. | 2.1 | 2 |
| 76 | Pilot Study: Investigating EEG Based Neuro-Responses of Engineers via a Modified Alternative Uses Task to Understand Creativity. , 2020, , . | | 2 |
| 77 | An Investigation on the Effects of Ambiguity, Gender Orientation, and Domain Relatedness of Design Projects on Student Performance. Journal of Mechanical Design, Transactions of the ASME, 2020, 142, . | 2.9 | 2 |
| 78 | An investigation on servitization in manufacturing: Development of a theoretical framework. , 2014, , . | | 1 |
| 79 | Measuring global awareness interest development of engineering and information technology students. , 2016, , . | | 1 |
| 80 | A simulation model of consumer take-back decisions regarding product design. Procedia Manufacturing, 2019, 33, 671-678. | 1.9 | 1 |
| 81 | Empirical study on mental stress among healthcare staffs and the influencing workplace stressors. Engineering Management in Production and Services, 2021, 13, 54-67. | 0.9 | 1 |
| 82 | Customer Needs Based Product Family Sizing Design: The Viper Case Study. , 2014, , 683-706. | | 1 |
| 83 | Evaluating Supply Chain Resource Limits From News Articles and Earnings Call Transcripts: An Application of Integrated Factor Analysis and Analytical Network Process. , 2020, , . | | 1 |
| 84 | Peer Learning Using Smart Devices: A Report on Work-in-Progress. , 2013, , . | | 1 |
| 85 | Modeling a Flat Learning Environment as a Social Network to Understand Effects of Peer-to-Peer Information Exchange on Learning. , 2014, , . | | 1 |
| 86 | Bridging Learning Gap Through Peer-to-Peer Information Exchange in a Flat Environment. , 2015, , . | | 1 |
| 87 | Reliability-Informed Life-Cycle Warranty Cost Analysis: A Case Study on a Transmission in Agricultural Equipment. , 2020, , . | | 1 |
| 88 | Investigating the Relationship Between Product Design Complexity and FDA for Medical Device Development. , 2013, , . | | 0 |
| 89 | Design for FDA: A Predictive Model for the FDAâ€™s Decision Time for Medical Devices. , 2013, , . | | 0 |
| 90 | A tool for assessing ethical awareness and reasoning development of engineering students. , 2014, , . | | 0 |

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|---|---|---|---|
| 91 | Manufacturing Evolution Through Servitization: Empirical Evidence on Relationship Between Manufacturing Capability and Economic Advantages. , 2014, , . | | 0 |
| 92 | A Network Based Dynamic Model for Product Family Evolution. , 2014, , . | | 0 |
| 93 | Effects of Technology Assisted Flat Learning Environment for a Design Project at a Historically Black University. , 2017, , . | | 0 |
| 94 | Course-Based Undergraduate Research: A Review of Models and Practices. , 2015, , . | | 0 |
| 95 | How stereotype threat affects the brain dynamics of creative thinking in female students. Neuropsychologia, 2022, , 108306. | 1.6 | 0 |