

# GÃ¼nter E Kremer

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Experimental and Numerical Investigation on Radial Stiffness of Origami-Inspired Tubular Structures. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	2.2	7
2	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
3	How stereotype threat affects the brain dynamics of creative thinking in female students. Neuropsychologia, 2022, , 108306.	1.6	0
4	A multi-objective robust possibilistic programming approach to sustainable public transportation network design. Fuzzy Sets and Systems, 2021, 422, 106-129.	2.7	15
5	Linguistic summarization to support supply network decisions. Journal of Intelligent Manufacturing, 2021, 32, 1573-1586.	7.3	4
6	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
7	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
8	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
9	An intelligent learning framework for Industry 4.0 through automated planning. Computer Applications in Engineering Education, 2021, 29, 624-640.	3.4	3
10	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
11	An Investigation on Process Capability Analysis for Fused Filament Fabrication. International Journal of Precision Engineering and Manufacturing, 2020, 21, 759-774.	2.2	11
12	Predicting customer satisfaction based on online reviews and hybrid ensemble genetic programming algorithms. Engineering Applications of Artificial Intelligence, 2020, 95, 103902.	8.1	12
13	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
14	<i>Engineering</i> creativity: Prior experience modulates electrophysiological responses to novel metaphors. Psychophysiology, 2020, 57, e13630.	2.4	7
15	Concept design evaluation by using Z-axiomatic design. Computers in Industry, 2020, 122, 103278.	9.9	36
16	Evolution of supply chain management: a sustainability focused review. International Journal of Sustainable Manufacturing, 2020, 4, 319.	0.3	2
17	Strategic development of flexible manufacturing facilities. Engineering, Construction and Architectural Management, 2020, 27, 1299-1314.	3.1	6
18	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

#	ARTICLE	IF	CITATIONS
19	Life cycle assessment comparison of wooden and plastic pallets in the grocery industry. Journal of Industrial Ecology, 2020, 24, 871-886.	5.5	14
20	Pilot Study: Investigating EEG Based Neuro-Responses of Engineers via a Modified Alternative Uses Task to Understand Creativity. , 2020, , .		2
21	Evaluating Supply Chain Resource Limits From News Articles and Earnings Call Transcripts: An Application of Integrated Factor Analysis and Analytical Network Process. , 2020, , .		1
22	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
23	Reliability-Informed Life-Cycle Warranty Cost Analysis: A Case Study on a Transmission in Agricultural Equipment. , 2020, , .		1
24	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
25	A simulation model of consumer take-back decisions regarding product design. Procedia Manufacturing, 2019, 33, 671-678.	1.9	1
26	3D Printing and Characterization of Hydroxypropyl Methylcellulose and Methylcellulose for Biodegradable Support Structures. Procedia Manufacturing, 2019, 34, 552-559.	1.9	22
27	3D printing and characterization of hydroxypropyl methylcellulose and methylcellulose for biodegradable support structures. Polymer, 2019, 173, 119-126.	3.8	29
28	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
29	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
30	Applying Text-mining Techniques to Global Supply Chain Region Selection: Considering Regional Differences. Procedia Manufacturing, 2019, 39, 1691-1698.	1.9	5
31	A cyberlearning platform for enhancing undergraduate engineering education in sustainable product design. Journal of Cleaner Production, 2019, 211, 730-741.	9.3	20
32	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
33	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
34	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
35	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
36	Instrument Development to Assess Design Project Appropriateness for Domain Relatedness, Ambiguity Tolerance, and Genderedness. , 2018, , .		2

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37	Design for Additive Manufacturing Inspired by TRIZ. , 2018, , .		4
38	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
39	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
40	Translating Constructionist Learning to Engineering Design Education. Journal of Integrated Design and Process Science, 2017, 21, 3-20.	0.5	9
41	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
42	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
43	Enabling Cyber-Based Learning of Product Sustainability Assessment Using Unit Manufacturing Process Analysis. , 2017, , .		5
44	Effects of Technology Assisted Flat Learning Environment for a Design Project at a Historically Black University. , 2017, , .		0
45	Design Education and Engineering Design. Journal of Integrated Design and Process Science, 2017, 21, 1-2.	0.5	2
46	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
47	Measuring global awareness interest development of engineering and information technology students. , 2016, , .		1
48	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
49	Dynamic patient grouping and prioritization: a new approach to emergency department flow improvement. Health Care Management Science, 2016, 19, 192-205.	2.6	41
50	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
51	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
52	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
53	Directions for instilling economic and environmental sustainability across product supply chains. Journal of Cleaner Production, 2016, 112, 2066-2078.	9.3	45
54	A Modular Product Design Method to Improve Product Social Sustainability Performance. , 2015, , .		5

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55	Understanding the Impact of Subjective Uncertainty on Architecture and Supplier Identification in Early Complex Systems Design. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2015, 1, .	1.1	6
56	Teamwork attitude, interest, and self-efficacy: Their implications for teaching teamwork skills to engineering students. , 2015, , .		7
57	An Investigation on the Implications of Design Process Phases on Artifact Novelty. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	2.9	2
58	A fuzzy logic-based approach to determine product component end-of-life option from the views of sustainability and designer's perception. <i>Journal of Cleaner Production</i> , 2015, 108, 289-300.	9.3	67
59	Assessment of static complexity in design and manufacturing of a product family and its impact on manufacturing performance. <i>International Journal of Production Economics</i> , 2015, 169, 215-232.	8.9	41
60	Bridging Learning Gap Through Peer-to-Peer Information Exchange in a Flat Environment. , 2015, , .		1
61	Course-Based Undergraduate Research: A Review of Models and Practices. , 2015, , .		0
62	A tool for assessing ethical awareness and reasoning development of engineering students. , 2014, , .		0
63	A Modular Design Approach to Improve Product Life Cycle Performance Based on the Optimization of a Closed-Loop Supply Chain. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2014, 136, .	2.9	20
64	Managing uncertainty in potential supplier identification. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2014, 28, 339-351.	1.1	6
65	Life cycle implications of product modular architectures in closed-loop supply chains. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 2013-2028.	3.0	13
66	An investigation on servitization in manufacturing: Development of a theoretical framework. , 2014, , .		1
67	An Investigation on Centralized and Decentralized Supply Chain Scenarios at the Product Design Stage to Increase Performance. <i>IEEE Transactions on Engineering Management</i> , 2014, 61, 114-128.	3.5	21
68	A dynamic multi-attribute utility theoryâ€‘based decision support system for patient prioritization in the emergency department. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2014, 4, 1-15.	0.8	30
69	Strategic decision making for multiple-generation product lines using dynamic state variable models: The cannibalization case. <i>Computers in Industry</i> , 2014, 65, 79-90.	9.9	14
70	A Modular Product Design Approach With Key Components Consideration to Improve Sustainability. , 2014, , .		5
71	The Impact of Team-Based Product Dissection on Design Novelty. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2014, 136, .	2.9	17
72	Manufacturing Evolution Through Servitization: Empirical Evidence on Relationship Between Manufacturing Capability and Economic Advantages. , 2014, , .		0

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73	A Network Based Dynamic Model for Product Family Evolution. , 2014, , .		0
74	Customer Needs Based Product Family Sizing Design: The Viper Case Study. , 2014, , 683-706.		1
75	Modeling a Flat Learning Environment as a Social Network to Understand Effects of Peer-to-Peer Information Exchange on Learning. , 2014, , .		1
76	Analysis of modularity implementation methods from an assembly and variety viewpoints. International Journal of Advanced Manufacturing Technology, 2013, 66, 1959-1976.	3.0	20
77	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
78	Model comparison in Emergency Severity Index level prediction. Expert Systems With Applications, 2013, 40, 6901-6909.	7.6	16
79	Assessing professional skills in STEM disciplines. , 2013, , .		11
80	An investigation of critical factors in medical device development through Bayesian networks. Expert Systems With Applications, 2013, 40, 7034-7045.	7.6	15
81	Investigating the Relationship Between Product Design Complexity and FDA for Medical Device Development. , 2013, , .		0
82	Product Modularity and Implications for the Reverse Supply Chain. Supply Chain Forum, 2013, 14, 54-69.	4.2	18
83	Observations From Radical Innovation Projects Considering the Company Context. Journal of Mechanical Design, Transactions of the ASME, 2013, 135, .	2.9	15
84	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
85	Supporting medical device development: a standard product design process model. Journal of Engineering Design, 2013, 24, 83-119.	2.3	58
86	Information Format and Cognitive Style. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1129-1133.	0.3	2
87	Design for FDA: A Predictive Model for the FDAâ€™s Decision Time for Medical Devices. , 2013, , .		0
88	Peer Learning Using Smart Devices: A Report on Work-in-Progress. , 2013, , .		1
89	Physiological and descriptive variables as predictors for the Emergency Severity Index. IIE Transactions on Healthcare Systems Engineering, 2012, 2, 131-141.	0.8	6
90	A Process-Based Approach for Cradle-to-Gate Energy and Carbon Footprint Reduction in Product Design. , 2012, , .		5

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91	An Analysis of Critical Factors in Medical Device Development to Design for FDA. , 2012, , .		5
92	The Impact of Product Dissection Activities on the Novelty of Design Outcomes. , 2012, , .		10
93	An Analysis of Complexity Measures for Product Design and Development. , 2012, , .		4
94	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
95	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