

Kristin L Wood

List of Publications by Year in descending order

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37
papers

993
citations

516710

16
h-index

526287

27
g-index

37
all docs

37
docs citations

37
times ranked

945
citing authors

#	ARTICLE	IF	CITATIONS
1	Internet of Things for Green Building Management: Disruptive Innovations Through Low-Cost Sensor Technology and Artificial Intelligence. IEEE Signal Processing Magazine, 2018, 35, 100-110.	5.6	105
2	Design-by-analogy: experimental evaluation of a functional analogy search methodology for concept generation improvement. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2015, 26, 77-95.	2.1	80
3	Hybrid quantum-classical convolutional neural networks. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	75
4	Gecko-Inspired Dry Adhesive Based on Micro-“Nanoscale Hierarchical Arrays for Application in Climbing Devices. ACS Applied Materials & Interfaces, 2018, 10, 1288-1296.	8.0	70
5	Locomotion Study of a Standing Wave Driven Piezoelectric Miniature Robot for Bi-Directional Motion. IEEE Transactions on Robotics, 2017, 33, 742-747.	10.3	54
6	Design of a Mobile Charging Service for Electric Vehicles in an Urban Environment. IEEE Transactions on Intelligent Transportation Systems, 2014, , 1-12.	8.0	50
7	Designettes: An Approach to Multidisciplinary Engineering Design Education. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	50
8	A Framework for Taxonomy and Evaluation of Self-Reconfigurable Robotic Systems. IEEE Access, 2020, 8, 13969-13986.	4.2	50
9	Overcoming design fixation: Design by analogy studies and nonintuitive findings. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2016, 30, 185-199.	1.1	47
10	Engineering Knowledge Graph From Patent Database. Journal of Computing and Information Science in Engineering, 2022, 22, .	2.7	34
11	A Survey of Computational Intelligence Techniques for Air-Conditioners Energy Management. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 555-570.	4.9	33
12	Path Tracking Control of Self-Reconfigurable Robot hTetro With Four Differential Drive Units. IEEE Robotics and Automation Letters, 2020, 5, 3998-4005.	5.1	33
13	Idea generation with Technology Semantic Network. Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM, 2021, 35, 265-283.	1.1	31
14	A state-of-the-art review and analysis on the design of dry adhesion materials for applications such as climbing micro-robots. RSC Advances, 2015, 5, 50821-50832.	3.6	29
15	Motivational Psychology Driven AC Management Scheme: A Responsive Design Approach. IEEE Transactions on Computational Social Systems, 2018, 5, 289-301.	4.4	27
16	Steerable miniature legged robot driven by a single piezoelectric bending unimorph actuator. , 2017, , .		25
17	A tether-less Legged Piezoelectric Miniature Robot using bounding gait locomotion for bidirectional motion. , 2016, , .		24
18	Data Driven Electricity Management for Residential Air Conditioning Systems: An Experimental Approach. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 380-391.	4.6	21

#	ARTICLE	IF	CITATIONS
19	Reconfigurable Robotic System Design With Application to Cleaning and Maintenance. Journal of Mechanical Design, Transactions of the ASME, 2022, 144, .	2.9	18
20	Exploiting design thinking to improve energy efficiency of buildings. Energy, 2020, 197, 117141.	8.8	17
21	The growing complexity in invention process. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2017, 28, 421-435.	2.1	16
22	Energy Management Strategy for Zone Cooling Load Demand Reduction in Commercial Buildings: A Data-Driven Approach. IEEE Transactions on Industry Applications, 2019, 55, 7281-7299.	4.9	15
23	Implementation of Caterpillar Inspired Rolling Gait and Nonlinear Control Strategy in a Spherical Robot. Journal of Bionic Engineering, 2018, 15, 313-328.	5.0	11
24	A Compact Magnetic Field-Based Obstacle Detection and Avoidance System for Miniature Spherical Robots. Sensors, 2017, 17, 1231.	3.8	10
25	A System-of-Systems Bio-Inspired Design Process: Conceptual Design and Physical Prototype of a Reconfigurable Robot Capable of Multi-Modal Locomotion. Frontiers in Neurorobotics, 2019, 13, 78.	2.8	10
26	Design and Analysis of A Miniature Two-Wheg Climbing Robot with Robust Internal and External Transitioning Capabilities. , 2019, , .		9
27	Development of a Miniature Robot for Multi-robot Occupancy Grid Mapping. , 2018, , .		8
28	Design Principles for Additive Manufacturing: Leveraging Crowdsourced Design Repositories. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	2.9	8
29	ORION-II: A Miniature Climbing Robot with Bilayer Compliant Tape for Autonomous Intelligent Surveillance and Reconnaissance. , 2018, , .		7
30	A Lead User Approach to Universal Design - Involving Older Adults in the Design Process. Studies in Health Technology and Informatics, 2016, 229, 131-40.	0.3	6
31	De-coupled dynamics control of a spherical rolling robot for waypoint navigation. , 2017, , .		5
32	Extreme-user conditions to enhance design creativity and empathy- application using visual impairment. International Journal of Design Creativity and Innovation, 0, , 1-26.	1.2	5
33	Systematic Application of Extreme-User Experiences: Impact on the Outcomes of an Undergraduate Medical Device Design Module. Biomedical Engineering Education, 2022, 2, 233-252.	0.7	4
34	Simulation Tools for Inclusive Design Solutions. Studies in Health Technology and Informatics, 2021, 282, 210-218.	0.3	3
35	An integration of function- and affordance-based methods for product-service system utilizing finite state automata. , 2016, , .		1
36	An Application of the Simultaneous Localization and Mapping (SLAM) Method Based on the Unscented Kalman Filter (UKF) to a Reconfigurable Quadruped Robot with Crawling Locomotion. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
37	EPIC30M: An Epidemics Corpus of Over 30 Million Relevant Tweets. , 2020, , .		1