

Xiaowei Luo

List of Publications by Citations

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

1,147
citations

19
h-index

30
g-index

89
ext. papers

1,814
ext. citations

5.8
avg, IF

5.5
L-index

#	Paper	IF	Citations
78	Comparative evaluation of Received Signal-Strength Index (RSSI) based indoor localization techniques for construction jobsites. <i>Advanced Engineering Informatics</i> , 2011 , 25, 355-363	7.4	141
77	Transfer learning and deep convolutional neural networks for safety guardrail detection in 2D images. <i>Automation in Construction</i> , 2018 , 89, 58-70	9.6	100
76	Comprehensive assessment of embodied environmental impacts of buildings using normalized environmental impact factors. <i>Journal of Cleaner Production</i> , 2022 , 334, 130083	10.3	48
75	A Supervised Event-Based Non-Intrusive Load Monitoring for Non-Linear Appliances. <i>Sustainability</i> , 2018 , 10, 1001	3.6	43
74	An integrated approach to automatic pixel-level crack detection and quantification of asphalt pavement. <i>Automation in Construction</i> , 2020 , 114, 103176	9.6	43
73	An overview of carbon sequestration of green roofs in urban areas. <i>Urban Forestry and Urban Greening</i> , 2020 , 47, 126515	5.4	38
72	A Kalman filter-based bottom-up approach for household short-term load forecast. <i>Applied Energy</i> , 2019 , 250, 882-894	10.7	37
71	Nanotechnology in Transportation Vehicles: An Overview of Its Applications, Environmental, Health and Safety Concerns. <i>Materials</i> , 2019 , 12,	3.5	37
70	Photovoltaic-green roofs: A review of benefits, limitations, and trends. <i>Solar Energy</i> , 2020 , 202, 485-497	6.8	31
69	An automatic literature knowledge graph and reasoning network modeling framework based on ontology and natural language processing. <i>Advanced Engineering Informatics</i> , 2019 , 42, 100959	7.4	31
68	Highly anisotropic and flexible piezoceramic kirigami for preventing joint disorders. <i>Science Advances</i> , 2021 , 7,	14.3	30
67	Exploring the Emerging Evolution Trends of Urban Resilience Research by Scientometric Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	27
66	A proactive workers' safety risk evaluation framework based on position and posture data fusion. <i>Automation in Construction</i> , 2019 , 98, 275-288	9.6	25
65	Development of Construction Workers Job Stress Scale to Study and the Relationship between Job Stress and Safety Behavior: An Empirical Study in Beijing. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	25
64	Utilizing BIM and Carbon Estimating Methods for Meaningful Data Representation. <i>Procedia Engineering</i> , 2016 , 145, 1242-1249		23
63	A new framework of industrialized construction in China: Towards on-site industrialization. <i>Journal of Cleaner Production</i> , 2020 , 244, 118469	10.3	23
62	Measuring and Computing Cognitive Statuses of Construction Workers Based on Electroencephalogram: A Critical Review. <i>IEEE Transactions on Computational Social Systems</i> , 2022 , 1-16	4.5	21

61	Collecting building occupancy data of high resolution based on WiFi and BLE network. <i>Automation in Construction</i> , 2019 , 102, 183-194	9.6	20
60	Spatial granularity analysis on electricity consumption prediction using LSTM recurrent neural network. <i>Energy Procedia</i> , 2019 , 158, 2713-2718	2.3	19
59	New media data-driven measurement for the development level of prefabricated construction in China. <i>Journal of Cleaner Production</i> , 2019 , 241, 118353	10.3	18
58	Mixed-mode thermal stress intensity factors from the finite element discretized symplectic method. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3798-3806	3.1	17
57	Direction-adaptive energy harvesting with a guide wing under flow-induced oscillations. <i>Energy</i> , 2019 , 187, 115983	7.9	16
56	Evaluating the Relationship between Freight Transport, Economic Prosperity, Urbanization, and CO2 Emissions: Evidence from Hong Kong, Singapore, and South Korea. <i>Sustainability</i> , 2020 , 12, 10664	3.6	16
55	Investigating the nexus among transport, economic growth and environmental degradation: Evidence from panel ARDL approach. <i>Transport Policy</i> , 2021 , 109, 61-71	5.7	15
54	Exploring approaches to improve the performance of autonomous monitoring with imperfect data in location-aware wireless sensor networks. <i>Advanced Engineering Informatics</i> , 2014 , 28, 287-296	7.4	14
53	Environmental life cycle assessment of battery electric vehicles from the current and future energy mix perspective. <i>Journal of Environmental Management</i> , 2021 , 303, 114050	7.9	13
52	Severity Prediction Models of Falling Risk for Workers at Height. <i>Procedia Engineering</i> , 2016 , 164, 439-445		13
51	Impact of Safety Attitude on the Safety Behavior of Coal Miners in China. <i>Sustainability</i> , 2019 , 11, 6382	3.6	12
50	Multi-objective Decision-Making for the Ecological Operation of Built Reservoirs Based on the Improved Comprehensive Fuzzy Evaluation Method. <i>Water Resources Management</i> , 2019 , 33, 3949-3964	3.7	11
49	Decision framework for optimal installation of outriggers in tall buildings. <i>Automation in Construction</i> , 2018 , 93, 200-213	9.6	11
48	Factors Influence China's Off-Site Construction Technology Innovation Diffusion. <i>Sustainability</i> , 2019 , 11, 1849	3.6	10
47	Parallel computational building-chain model for rapid urban-scale energy simulation. <i>Energy and Buildings</i> , 2019 , 201, 37-52	7	10
46	Comparative analysis of U-pipe location on the sizing of borehole heat exchangers. <i>Applied Thermal Engineering</i> , 2019 , 150, 666-673	5.8	10
45	RELIABILITY MODEL AND CRITICAL FACTORS IDENTIFICATION OF CONSTRUCTION SAFETY MANAGEMENT BASED ON SYSTEM THINKING. <i>Journal of Civil Engineering and Management</i> , 2019 , 25, 362-379	3	9
44	Investigating the influence of route turning angle on compliance behaviors and evacuation performance in a virtual-reality-based experiment. <i>Advanced Engineering Informatics</i> , 2021 , 48, 101259	7.4	9

43	Study on Flow Field Characteristics of the 90° Rectangular Elbow in the Exhaust Hood of a Uniform Push/Pull Ventilation Device. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	9
42	The finite element discretized symplectic method for composite mode III cracks. <i>Engineering Fracture Mechanics</i> , 2015 , 140, 43-60	4.2	8
41	The Spillover Effects on Employees' Life of Construction Enterprises' Safety Climate. <i>Sustainability</i> , 2017 , 9, 2060	3.6	8
40	Safety challenges and improvement strategies of ethnic minority construction workers: a case study in Hong Kong. <i>International Journal of Occupational Safety and Ergonomics</i> , 2020 , 26, 80-90	2.1	8
39	Location-Aware Sensor Data Error Impact on Autonomous Crane Safety Monitoring. <i>Journal of Computing in Civil Engineering</i> , 2015 , 29,	5	7
38	Exploring the Quantitative Impact of Localization Accuracy on Localization-Based Safety Monitoring's Performance on a Construction Jobsite. <i>Journal of Computing in Civil Engineering</i> , 2019 , 33, 04019035	5	7
37	Proposing a multifaceted model for adopting prefabricated construction technology in the construction industry. <i>Engineering, Construction and Architectural Management</i> , 2021 , ahead-of-print,	3.1	7
36	Interorganizational Diffusion of Prefabricated Construction Technology: Two-Stage Evolution Framework. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020114	4.2	7
35	An integrated smart home energy management model based on a pyramid taxonomy for residential houses with photovoltaic-battery systems. <i>Applied Energy</i> , 2021 , 298, 117159	10.7	7
34	Modeling city-scale building energy dynamics through inter-connected distributed adjacency blocks. <i>Energy and Buildings</i> , 2019 , 202, 109391	7	6
33	Intelligent optimal design of floor tiles: A goal-oriented approach based on BIM and parametric design platform. <i>Journal of Cleaner Production</i> , 2021 , 299, 126754	10.3	6
32	Major Knowledge Diffusion Paths of Megaproject Management: A Citation-Based Analysis. <i>Project Management Journal</i> , 2020 , 51, 242-261	3.5	6
31	Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability. <i>Advanced Functional Materials</i> , 2021 , 31, 2104737	15.6	6
30	Managing stakeholder-associated risks and their interactions in the life cycle of prefabricated building projects: A social network analysis approach. <i>Journal of Cleaner Production</i> , 2021 , 323, 129102	10.3	6
29	How to promote the sustainable development of prefabricated residential buildings in China: A tripartite evolutionary game analysis. <i>Journal of Cleaner Production</i> , 2022 , 349, 131423	10.3	6
28	Multisource Fusion Framework for Environment Learning-Free Indoor Localization. <i>Journal of Computing in Civil Engineering</i> , 2018 , 32, 04018040	5	5
27	Location-based measurement and visualization for interdependence network on construction sites. <i>Advanced Engineering Informatics</i> , 2017 , 34, 36-45	7.4	5
26	Development and Evaluation of an Augmented Reality Learning Tool for Construction Engineering Education 2018 ,		5

25	Development of event-driven optimal control for central air-conditioning systems. <i>Journal of Building Performance Simulation</i> , 2020 , 13, 378-390	2.8	4
24	Requirements for Autonomous Crane Safety Monitoring 2011 ,		4
23	The finite element discretized symplectic method for direct computation of SIF of piezoelectric materials. <i>Engineering Fracture Mechanics</i> , 2016 , 162, 21-37	4.2	4
22	Scientometric Analysis of Safety Sign Research: 1990-2019. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	4
21	Fusion Model for Hazard Association Network Development: A Case in Elevator Installation and Maintenance. <i>KSCE Journal of Civil Engineering</i> , 2019 , 23, 1451-1465	1.9	3
20	Built environment and management: exploring grand challenges and management issues in built environment. <i>Frontiers of Engineering Management</i> , 2019 , 6, 313-326	2.7	3
19	AN INTEGRATED MULTI-OBJECTIVES OPTIMIZATION APPROACH ON MODELLING PAVEMENT MAINTENANCE STRATEGIES FOR PAVEMENT SUSTAINABILITY. <i>Journal of Civil Engineering and Management</i> , 2020 , 26, 717-732	3	3
18	Virtual reality technology in construction safety training: Extended technology acceptance model. <i>Automation in Construction</i> , 2022 , 135, 104113	9.6	3
17	Multi-Index Evaluation for Flood Disaster from Sustainable Perspective: A Case Study of Xinjiang in China. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	3
16	Automated Layout Design Approach of Floor Tiles: Based on Building Information Modeling (BIM) via Parametric Design (PD) Platform. <i>Buildings</i> , 2022 , 12, 250	3.2	3
15	Analyzing the Land Leasing Behavior of the Government of Beijing, China, via the Multinomial Logit Model. <i>Land</i> , 2022 , 11, 376	3.5	3
14	HVAC Energy Saving in IPS-enabled Large Space: An Occupancy Distribution Based Demand-driven Control Approach. <i>Energy Procedia</i> , 2017 , 105, 2083-2088	2.3	2
13	Evaluating the Impact of Location-Aware Sensor Data Imperfections on Autonomous Jobsite Safety Monitoring 2013 ,		2
12	An Architecture for Local Decision Support in Ad Hoc Sensor Networks 2007 ,		2
11	Image-based road crack risk-informed assessment using a convolutional neural network and an unmanned aerial vehicle. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2749	4.5	2
10	A Systematic Review of Eye-Tracking Studies of Construction Safety.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 891725	5.1	2
9	Improving RSSI-Based Indoor Localization Performance by Integrating BIM 2017 ,		1
8	Electricity load decomposition prototype for household appliances: System Design and Development. <i>Energy Procedia</i> , 2019 , 158, 3158-3163	2.3	1

7	A worker posture coding scheme to link automatic and manual coding. <i>Automation in Construction</i> , 2021 , 125, 103630	9.6	1
6	Differences between inexperienced and experienced safety supervisors in identifying construction hazards: Seeking insights for training the inexperienced. <i>Advanced Engineering Informatics</i> , 2022 , 52, 101602	7.4	1
5	Evolution pathways of robotic technologies and applications in construction. <i>Advanced Engineering Informatics</i> , 2022 , 51, 101529	7.4	0
4	Dynamic Evolution of Public Positive Emotions and Risk Perception for the COVID-19 Pandemic: A Case Study of Hubei Province of China. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-14	1.1	0
3	Multi-objective optimization in floor tile planning: Coupling BIM and parametric design. <i>Automation in Construction</i> , 2022 , 140, 104384	9.6	0
2	Mediating Role of Time Pressure on the Relationship between Organizational Psychology Safety and Motivation of Learning from Failure in Large-Scale Construction Project. <i>Advances in Civil Engineering</i> , 2022 , 2022, 1-10	1.3	
1	Exploratory Study: A Modification Training Method of Attentional Bias Toward Safety. <i>Safety and Health at Work</i> , 2021 , 12, 346-350	4	