

Xiaowei Luo

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

2,616
citations

185998

28
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223531

46
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89
all docs

89
docs citations

89
times ranked

1921
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposing a multifaceted model for adopting prefabricated construction technology in the construction industry. <i>Engineering, Construction and Architectural Management</i> , 2023, 30, 755-786.	1.8	17
2	A Consensus-Based Distributed Temperature Priority Control of Air Conditioner Clusters for Voltage Regulation in Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2023, 14, 290-301.	6.2	3
3	Prioritizing requirements for implementing blockchain technology in construction supply chain based on circular economy: Fuzzy Ordinal Priority Approach. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 4991-5012.	1.8	28
4	Environmental life cycle assessment of battery electric vehicles from the current and future energy mix perspective. <i>Journal of Environmental Management</i> , 2022, 303, 114050.	3.8	75
5	Comprehensive assessment of embodied environmental impacts of buildings using normalized environmental impact factors. <i>Journal of Cleaner Production</i> , 2022, 334, 130083.	4.6	103
6	Virtual reality technology in construction safety training: Extended technology acceptance model. <i>Automation in Construction</i> , 2022, 135, 104113.	4.8	63
7	Evolution pathways of robotic technologies and applications in construction. <i>Advanced Engineering Informatics</i> , 2022, 51, 101529.	4.0	14
8	Color-Dense Illumination Adjustment Network for Removing Haze and Smoke from Fire Scenario Images. <i>Sensors</i> , 2022, 22, 911.	2.1	4
9	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.	0.4	1
10	Measuring and Computing Cognitive Statuses of Construction Workers Based on Electroencephalogram: A Critical Review. <i>IEEE Transactions on Computational Social Systems</i> , 2022, 9, 1644-1659.	3.2	70
11	Automated Layout Design Approach of Floor Tiles: Based on Building Information Modeling (BIM) via Parametric Design (PD) Platform. <i>Buildings</i> , 2022, 12, 250.	1.4	8
12	Voice Endorsement and Employee Safety Voice Behavior in Construction Projects: The Mediating Role of Leader-Member Exchange. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 3374.	1.2	6
13	Analyzing the Land Leasing Behavior of the Government of Beijing, China, via the Multinomial Logit Model. <i>Land</i> , 2022, 11, 376.	1.2	19
14	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.	4.0	10
15	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.	4.6	52
16	Development Strategy Optimization for Off-Site Construction Projects: Synergy of the Government and Developers. <i>Journal of Management in Engineering - ASCE</i> , 2022, 38, .	2.6	2
17	Identifying Effective Collaborative Behaviors in Building Information Modeling-Enabled Construction Projects. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .	2.0	12
18	Development and Validation of the Coping Capacity Measurement Scale of Public Health Emergencies in China. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 94.	1.2	3

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19	Fabrication and Characterization of Superhydrophobic Al-Based Surface Used for Finned-Tube Heat Exchangers. <i>Materials</i> , 2022, 15, 3060.	1.3	4
20	A Systematic Review of Eye-Tracking Studies of Construction Safety. <i>Frontiers in Neuroscience</i> , 2022, 16, 891725.	1.4	18
21	Multi-objective optimization in floor tile planning: Coupling BIM and parametric design. <i>Automation in Construction</i> , 2022, 140, 104384.	4.8	12
22	Scientometric Analysis of Safety Sign Research: 1990â€“2019. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 273.	1.2	17
23	Dynamic Evolution of Publicâ€™s 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.	0.6	4
24	Highly anisotropic and flexible piezoceramic kirigami for preventing joint disorders. <i>Science Advances</i> , 2021, 7, .	4.7	88
25	Imageâ€“based road crack riskâ€“informed assessment using a convolutional neural network and an unmanned aerial vehicle. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2749.	1.9	14
26	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.	4.0	34
27	A worker posture coding scheme to link automatic and manual coding. <i>Automation in Construction</i> , 2021, 125, 103630.	4.8	2
28	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.	4.6	18
29	Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability. <i>Advanced Functional Materials</i> , 2021, 31, 2104737.	7.8	49
30	Investigating the nexus among transport, economic growth and environmental degradation: Evidence from panel ARDL approach. <i>Transport Policy</i> , 2021, 109, 61-71.	3.4	47
31	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.	5.1	26
32	Exploratory Study: A Modification Training Method of Attentional Bias Toward Safety. <i>Safety and Health at Work</i> , 2021, 12, 346-350.	0.3	0
33	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.	4.6	41
34	Scientometric Analysis of Disaster Risk Perception: 2000â€“2020. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 13003.	1.2	6
35	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.	1.1	13
36	Major Knowledge Diffusion Paths of Megaproject Management: A Citation-Based Analysis. <i>Project Management Journal</i> , 2020, 51, 242-261.	2.6	14

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37	A new framework of industrialized construction in China: Towards on-site industrialization. Journal of Cleaner Production, 2020, 244, 118469.	4.6	46
38	An overview of carbon sequestration of green roofs in urban areas. Urban Forestry and Urban Greening, 2020, 47, 126515.	2.3	99
39	Interorganizational Diffusion of Prefabricated Construction Technology: Two-Stage Evolution Framework. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020114.	2.0	16
40	A Biomechanical Waist Comfort Model for Manual Material Lifting. International Journal of Environmental Research and Public Health, 2020, 17, 5948.	1.2	8
41	Evaluating the Relationship between Freight Transport, Economic Prosperity, Urbanization, and CO2 Emissions: Evidence from Hong Kong, Singapore, and South Korea. Sustainability, 2020, 12, 10664.	1.6	31
42	Development of event-driven optimal control for central air-conditioning systems. Journal of Building Performance Simulation, 2020, 13, 378-390.	1.0	5
43	Photovoltaic-green roofs: A review of benefits, limitations, and trends. Solar Energy, 2020, 202, 485-497.	2.9	88
44	An integrated approach to automatic pixel-level crack detection and quantification of asphalt pavement. Automation in Construction, 2020, 114, 103176.	4.8	143
45	AN INTEGRATED MULTI-OBJECTIVES OPTIMIZATION APPROACH ON MODELLING PAVEMENT MAINTENANCE STRATEGIES FOR PAVEMENT SUSTAINABILITY. Journal of Civil Engineering and Management, 2020, 26, 717-732.	1.9	5
46	Nanotechnology in Transportation Vehicles: An Overview of Its Applications, Environmental, Health and Safety Concerns. Materials, 2019, 12, 2493.	1.3	68
47	Built environment and management: exploring grand challenges and management issues in built environment. Frontiers of Engineering Management, 2019, 6, 313-326.	3.3	13
48	Exploring the Quantitative Impact of Localization Accuracy on Localization-Based Safety Monitoring's Performance on a Construction Jobsite. Journal of Computing in Civil Engineering, 2019, 33, .	2.5	11
49	Parallel computational building-chain model for rapid urban-scale energy simulation. Energy and Buildings, 2019, 201, 37-52.	3.1	19
50	An automatic literature knowledge graph and reasoning network modeling framework based on ontology and natural language processing. Advanced Engineering Informatics, 2019, 42, 100959.	4.0	69
51	Direction-adaptive energy harvesting with a guide wing under flow-induced oscillations. Energy, 2019, 187, 115983.	4.5	34
52	Multi-objective Decision-Making for the Ecological Operation of Built Reservoirs Based on the Improved Comprehensive Fuzzy Evaluation Method. Water Resources Management, 2019, 33, 3949-3964.	1.9	19
53	Electricity load decomposition prototype for household appliances: System Design and Development. Energy Procedia, 2019, 158, 3158-3163.	1.8	1
54	Spatial granularity analysis on electricity consumption prediction using LSTM recurrent neural network. Energy Procedia, 2019, 158, 2713-2718.	1.8	29

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55	New media data-driven measurement for the development level of prefabricated construction in China. <i>Journal of Cleaner Production</i> , 2019, 241, 118353.	4.6	32
56	Modeling city-scale building energy dynamics through inter-connected distributed adjacency blocks. <i>Energy and Buildings</i> , 2019, 202, 109391.	3.1	11
57	A Kalman filter-based bottom-up approach for household short-term load forecast. <i>Applied Energy</i> , 2019, 250, 882-894.	5.1	85
58	Factors Influence China's Off-Site Construction Technology Innovation Diffusion. <i>Sustainability</i> , 2019, 11, 1849.	1.6	15
59	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.	0.9	8
60	Collecting building occupancy data of high resolution based on WiFi and BLE network. <i>Automation in Construction</i> , 2019, 102, 183-194.	4.8	29
61	Impact of Safety Attitude on the Safety Behavior of Coal Miners in China. <i>Sustainability</i> , 2019, 11, 6382.	1.6	26
62	Comparative analysis of U-pipe location on the sizing of borehole heat exchangers. <i>Applied Thermal Engineering</i> , 2019, 150, 666-673.	3.0	13
63	A proactive workers' safety risk evaluation framework based on position and posture data fusion. <i>Automation in Construction</i> , 2019, 98, 275-288.	4.8	41
64	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.	1.9	17
65	Transfer learning and deep convolutional neural networks for safety guardrail detection in 2D images. <i>Automation in Construction</i> , 2018, 89, 58-70.	4.8	178
66	Development and Evaluation of an Augmented Reality Learning Tool for Construction Engineering Education. , 2018, , .		18
67	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, 2409.	1.2	48
68	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, 2884.	1.2	15
69	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, 1983.	1.2	4
70	Exploring the Emerging Evolution Trends of Urban Resilience Research by Scientometric Analysis. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 2181.	1.2	42
71	A Supervised Event-Based Non-Intrusive Load Monitoring for Non-Linear Appliances. <i>Sustainability</i> , 2018, 10, 1001.	1.6	69
72	Multisource Fusion Framework for Environment Learning-Free Indoor Localization. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, 04018040.	2.5	5

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73	The devil is in the detail: The link between building regulatory processes, on-site inspection, verification and technology. , 2018, , .		1
74	Decision framework for optimal installation of outriggers in tall buildings. Automation in Construction, 2018, 93, 200-213.	4.8	15
75	HVAC Energy Saving in IPS-enabled Large Space: An Occupancy Distribution Based Demand-driven Control Approach. Energy Procedia, 2017, 105, 2083-2088.	1.8	2
76	Improving RSSI-Based Indoor Localization Performance by Integrating BIM. , 2017, , .		1
77	Location-based measurement and visualization for interdependence network on construction sites. Advanced Engineering Informatics, 2017, 34, 36-45.	4.0	9
78	The Spillover Effects on Employeesâ€™ Life of Construction Enterprisesâ€™ Safety Climate. Sustainability, 2017, 9, 2060.	1.6	11
79	Severity Prediction Models of Falling Risk for Workers at Height. Procedia Engineering, 2016, 164, 439-445.	1.2	20
80	The finite element discretized symplectic method for direct computation of SIF of piezoelectric materials. Engineering Fracture Mechanics, 2016, 162, 21-37.	2.0	5
81	Utilizing BIM and Carbon Estimating Methods for Meaningful Data Representation. Procedia Engineering, 2016, 145, 1242-1249.	1.2	33
82	Location-Aware Sensor Data Error Impact on Autonomous Crane Safety Monitoring. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	12
83	The finite element discretized symplectic method for composite mode III cracks. Engineering Fracture Mechanics, 2015, 140, 43-60.	2.0	11
84	Exploring approaches to improve the performance of autonomous monitoring with imperfect data in location-aware wireless sensor networks. Advanced Engineering Informatics, 2014, 28, 287-296.	4.0	18
85	Mixed-mode thermal stress intensity factors from the finite element discretized symplectic method. International Journal of Solids and Structures, 2014, 51, 3798-3806.	1.3	21
86	Evaluating the Impact of Location-Aware Sensor Data Imperfections on Autonomous Jobsite Safety Monitoring. , 2013, , .		2
87	Requirements for Autonomous Crane Safety Monitoring. , 2011, , .		7
88	Comparative evaluation of Received Signal-Strength Index (RSSI) based indoor localization techniques for construction jobsites. Advanced Engineering Informatics, 2011, 25, 355-363.	4.0	187
89	An Architecture for Local Decision Support in Ad Hoc Sensor Networks. , 2007, , .		4