# Xiaowei Luo

## List of Publications by Year
in descending order

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|---|---|---|---|
| 89<br>papers | 2,616<br>citations | 186265<br>28<br>h-index | 214800<br>47<br>g-index |
| 89<br>all docs | 89<br>docs citations | 89<br>times ranked | 1921<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 1 | Proposing a multifaceted model for adopting prefabricated construction technology in the construction industry. Engineering, Construction and Architectural Management, 2023, 30, 755-786. | 3.1 | 17 |
| 2 | A Consensus-Based Distributed Temperature Priority Control of Air Conditioner Clusters for Voltage Regulation in Distribution Networks. IEEE Transactions on Smart Grid, 2023, 14, 290-301. | 9.0 | 3 |
| 3 | Prioritizing requirements for implementing blockchain technology in construction supply chain based on circular economy: Fuzzy Ordinal Priority Approach. International Journal of Environmental Science and Technology, 2023, 20, 4991-5012. | 3.5 | 28 |
| 4 | Environmental life cycle assessment of battery electric vehicles from the current and future energy mix perspective. Journal of Environmental Management, 2022, 303, 114050. | 7.8 | 75 |
| 5 | Comprehensive assessment of embodied environmental impacts of buildings using normalized environmental impact factors. Journal of Cleaner Production, 2022, 334, 130083. | 9.3 | 103 |
| 6 | Virtual reality technology in construction safety training: Extended technology acceptance model. Automation in Construction, 2022, 135, 104113. | 9.8 | 63 |
| 7 | Evolution pathways of robotic technologies and applications in construction. Advanced Engineering Informatics, 2022, 51, 101529. | 8.0 | 14 |
| 8 | Color-Dense Illumination Adjustment Network for Removing Haze and Smoke from Fire Scenario Images. Sensors, 2022, 22, 911. | 3.8 | 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. Advances in Civil Engineering, 2022, 2022, 1-10. | 0.7 | 1 |
| 10 | Measuring and Computing Cognitive Statuses of Construction Workers Based on Electroencephalogram: A Critical Review. IEEE Transactions on Computational Social Systems, 2022, 9, 1644-1659. | 4.4 | 70 |
| 11 | Automated Layout Design Approach of Floor Tiles: Based on Building Information Modeling (BIM) via Parametric Design (PD) Platform. Buildings, 2022, 12, 250. | 3.1 | 8 |
| 12 | Voice Endorsement and Employee Safety Voice Behavior in Construction Projects: The Mediating Role of Leader-Member Exchange. International Journal of Environmental Research and Public Health, 2022, 19, 3374. | 2.6 | 6 |
| 13 | Analyzing the Land Leasing Behavior of the Government of Beijing, China, via the Multinomial Logit Model. Land, 2022, 11, 376. | 2.9 | 19 |
| 14 | Differences between inexperienced and experienced safety supervisors in identifying construction hazards: Seeking insights for training the inexperienced. Advanced Engineering Informatics, 2022, 52, 101602. | 8.0 | 10 |
| 15 | How to promote the sustainable development of prefabricated residential buildings in China: A tripartite evolutionary game analysis. Journal of Cleaner Production, 2022, 349, 131423. | 9.3 | 52 |
| 16 | Development Strategy Optimization for Off-Site Construction Projects: Synergy of the Government and Developers. Journal of Management in Engineering - ASCE, 2022, 38, . | 4.8 | 2 |
| 17 | Identifying Effective Collaborative Behaviors in Building Information Modeling–Enabled Construction Projects. Journal of Construction Engineering and Management - ASCE, 2022, 148, . | 3.8 | 12 |
| 18 | Development and Validation of the Coping Capacity Measurement Scale of Public Health Emergencies in China. International Journal of Environmental Research and Public Health, 2022, 19, 94. | 2.6 | 3 |

| # | Article | IF | Citations |
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| 19 | Fabrication and Characterization of Superhydrophobic Al-Based Surface Used for Finned-Tube Heat Exchangers. Materials, 2022, 15, 3060. | 2.9 | 4 |
| 20 | A Systematic Review of Eye-Tracking Studies of Construction Safety. Frontiers in Neuroscience, 2022, 16, 891725. | 2.8 | 18 |
| 21 | Multi-objective optimization in floor tile planning: Coupling BIM and parametric design. Automation in Construction, 2022, 140, 104384. | 9.8 | 12 |
| 22 | Scientometric Analysis of Safety Sign Research: 1990â€"2019. International Journal of Environmental Research and Public Health, 2021, 18, 273. | 2.6 | 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. Mathematical Problems in Engineering, 2021, 2021, 1-14. | 1.1 | 4 |
| 24 | Highly anisotropic and flexible piezoceramic kirigami for preventing joint disorders. Science Advances, 2021, 7, . | 10.3 | 88 |
| 25 | Imageâ€based road crack riskâ€informed assessment using a convolutional neural network and an unmanned aerial vehicle. Structural Control and Health Monitoring, 2021, 28, e2749. | 4.0 | 14 |
| 26 | Investigating the influence of route turning angle on compliance behaviors and evacuation performance in a virtual-reality-based experiment. Advanced Engineering Informatics, 2021, 48, 101259. | 8.0 | 34 |
| 27 | A worker posture coding scheme to link automatic and manual coding. Automation in Construction, 2021, 125, 103630. | 9.8 | 2 |
| 28 | Intelligent optimal design of floor tiles: A goal-oriented approach based on BIM and parametric design platform. Journal of Cleaner Production, 2021, 299, 126754. | 9.3 | 18 |
| 29 | Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability. Advanced Functional Materials, 2021, 31, 2104737. | 14.9 | 49 |
| 30 | Investigating the nexus among transport, economic growth and environmental degradation: Evidence from panel ARDL approach. Transport Policy, 2021, 109, 61-71. | 6.6 | 47 |
| 31 | An integrated smart home energy management model based on a pyramid taxonomy for residential houses with photovoltaic-battery systems. Applied Energy, 2021, 298, 117159. | 10.1 | 26 |
| 32 | Exploratory Study: A Modification Training Method of Attentional Bias Toward Safety. Safety and Health at Work, 2021, 12, 346-350. | 0.6 | 0 |
| 33 | Managing stakeholder-associated risks and their interactions in the life cycle of prefabricated building projects: A social network analysis approach. Journal of Cleaner Production, 2021, 323, 129102. | 9.3 | 41 |
| 34 | Scientometric Analysis of Disaster Risk Perception: 2000â€"2020. International Journal of Environmental Research and Public Health, 2021, 18, 13003. | 2.6 | 6 |
| 35 | Safety challenges and improvement strategies of ethnic minority construction workers: a case study in Hong Kong. International Journal of Occupational Safety and Ergonomics, 2020, 26, 80-90. | 1.9 | 13 |
| 36 | Major Knowledge Diffusion Paths of Megaproject Management: A Citation-Based Analysis. Project Management Journal, 2020, 51, 242-261. | 4.3 | 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. | 9.3 | 46 |
| 38 | An overview of carbon sequestration of green roofs in urban areas. Urban Forestry and Urban Greening, 2020, 47, 126515. | 5.3 | 99 |
| 39 | Interorganizational Diffusion of Prefabricated Construction Technology: Two-Stage Evolution Framework. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020114. | 3.8 | 16 |
| 40 | A Biomechanical Waist Comfort Model for Manual Material Lifting. International Journal of Environmental Research and Public Health, 2020, 17, 5948. | 2.6 | 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. | 3.2 | 31 |
| 42 | Development of event-driven optimal control for central air-conditioning systems. Journal of Building Performance Simulation, 2020, 13, 378-390. | 2.0 | 5 |
| 43 | Photovoltaic-green roofs: A review of benefits, limitations, and trends. Solar Energy, 2020, 202, 485-497. | 6.1 | 88 |
| 44 | An integrated approach to automatic pixel-level crack detection and quantification of asphalt pavement. Automation in Construction, 2020, 114, 103176. | 9.8 | 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. | 3.5 | 5 |
| 46 | Nanotechnology in Transportation Vehicles: An Overview of Its Applications, Environmental, Health and Safety Concerns. Materials, 2019, 12, 2493. | 2.9 | 68 |
| 47 | Built environment and management: exploring grand challenges and management issues in built environment. Frontiers of Engineering Management, 2019, 6, 313-326. | 6.1 | 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, . | 4.7 | 11 |
| 49 | Parallel computational building-chain model for rapid urban-scale energy simulation. Energy and Buildings, 2019, 201, 37-52. | 6.7 | 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. | 8.0 | 69 |
| 51 | Direction-adaptive energy harvesting with a guide wing under flow-induced oscillations. Energy, 2019, 187, 115983. | 8.8 | 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. | 3.9 | 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. Journal of Cleaner Production, 2019, 241, 118353. | 9.3 | 32 |
| 56 | Modeling city-scale building energy dynamics through inter-connected distributed adjacency blocks. Energy and Buildings, 2019, 202, 109391. | 6.7 | 11 |
| 57 | A Kalman filter-based bottom-up approach for household short-term load forecast. Applied Energy, 2019, 250, 882-894. | 10.1 | 85 |
| 58 | Factors Influence China's Off-Site Construction Technology Innovation Diffusion. Sustainability, 2019, 11, 1849. | 3.2 | 15 |
| 59 | Fusion Model for Hazard Association Network Development: A Case in Elevator Installation and Maintenance. KSCE Journal of Civil Engineering, 2019, 23, 1451-1465. | 1.9 | 8 |
| 60 | Collecting building occupancy data of high resolution based on WiFi and BLE network. Automation in Construction, 2019, 102, 183-194. | 9.8 | 29 |
| 61 | Impact of Safety Attitude on the Safety Behavior of Coal Miners in China. Sustainability, 2019, 11, 6382. | 3.2 | 26 |
| 62 | Comparative analysis of U-pipe location on the sizing of borehole heat exchangers. Applied Thermal Engineering, 2019, 150, 666-673. | 6.0 | 13 |
| 63 | A proactive workers' safety risk evaluation framework based on position and posture data fusion. Automation in Construction, 2019, 98, 275-288. | 9.8 | 41 |
| 64 | RELIABILITY MODEL AND CRITICAL FACTORS IDENTIFICATION OF CONSTRUCTION SAFETY MANAGEMENT BASED ON SYSTEM THINKING. Journal of Civil Engineering and Management, 2019, 25, 362-379. | 3.5 | 17 |
| 65 | Transfer learning and deep convolutional neural networks for safety guardrail detection in 2D images. Automation in Construction, 2018, 89, 58-70. | 9.8 | 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. International Journal of Environmental Research and Public Health, 2018, 15, 2409. | 2.6 | 48 |
| 68 | Study on Flow Field Characteristics of the 90° Rectangular Elbow in the Exhaust Hood of a Uniform Push–Pull Ventilation Device. International Journal of Environmental Research and Public Health, 2018, 15, 2884. | 2.6 | 15 |
| 69 | Multi-Index Evaluation for Flood Disaster from Sustainable Perspective: A Case Study of Xinjiang in China. International Journal of Environmental Research and Public Health, 2018, 15, 1983. | 2.6 | 4 |
| 70 | Exploring the Emerging Evolution Trends of Urban Resilience Research by Scientometric Analysis. International Journal of Environmental Research and Public Health, 2018, 15, 2181. | 2.6 | 42 |
| 71 | A Supervised Event-Based Non-Intrusive Load Monitoring for Non-Linear Appliances. Sustainability, 2018, 10, 1001. | 3.2 | 69 |
| 72 | Multisource Fusion Framework for Environment Learning–Free Indoor Localization. Journal of Computing in Civil Engineering, 2018, 32, 04018040. | 4.7 | 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. | 9.8 | 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. | 8.0 | 9 |
| 78 | The Spillover Effects on Employees' Life of Construction Enterprises' Safety Climate. Sustainability, 2017, 9, 2060. | 3.2 | 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. | 4.3 | 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, . | 4.7 | 12 |
| 83 | The finite element discretized symplectic method for composite mode III cracks. Engineering Fracture Mechanics, 2015, 140, 43-60. | 4.3 | 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. | 8.0 | 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. | 2.7 | 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. | 8.0 | 187 |
| 89 | An Architecture for Local Decision Support in Ad Hoc Sensor Networks. , 2007, , . | | 4 |