

Guomin Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

4,400
citations

76196

40
h-index

118652

62
g-index

113
all docs

113
docs citations

113
times ranked

2996
citing authors

#	ARTICLE	IF	CITATIONS
1	Decision-making model for sustainable management of Australian community buildings: combined approach using analytical hierarchy process and neuro-fuzzy system. <i>International Journal of Construction Management</i> , 2023, 23, 1299-1310.	2.2	1
2	A combined wall and roof solar chimney in one building. <i>Energy</i> , 2022, 240, 122480.	4.5	5
3	Application of COVID-19 single-use shredded nitrile gloves in structural concrete: Case study from Australia. <i>Science of the Total Environment</i> , 2022, 812, 151423.	3.9	17
4	Life cycle assessment (LCA) of concrete containing waste materials. , 2022, , 637-659.		3
5	Designing Post COVID-19 Buildings: Approaches for Achieving Healthy Buildings. <i>Buildings</i> , 2022, 12, 74.	1.4	46
6	Developing a Model for Assessing Project Completion Time Reliability during Construction Using Time-Dependent Reliability Theory. <i>Journal of Construction Engineering and Management - ASCE</i> , 2022, 148, .	2.0	4
7	Machine learning-based surrogate model for calibrating fire source properties in FDS models of façade fire tests. <i>Fire Safety Journal</i> , 2022, 130, 103591.	1.4	11
8	Solar chimney performance in buildings under three heating modes: An empirical analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102222.	1.7	3
9	Ventilating aged-care center based on solar chimney: Design and theoretical analysis. <i>Energy and Buildings</i> , 2022, 266, 112145.	3.1	1
10	Impacts of Spatial Components on Outdoor Thermal Comfort in Traditional Linpan Settlements. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6421.	1.2	7
11	A systematic review of green construction research using scientometrics methods. <i>Journal of Cleaner Production</i> , 2022, 366, 132710.	4.6	16
12	Ventilation performance of a naturally ventilated double-skin façade in buildings. <i>Renewable Energy</i> , 2021, 167, 184-198.	4.3	29
13	Accelerated carbonation treatment of recycled concrete aggregates using flue gas: A comparative study towards performance improvement. <i>Journal of CO2 Utilization</i> , 2021, 43, 101362.	3.3	40
14	Chinese Public-Private Partnership (PPP) Project Development Characteristics: An Interview Study. , 2021, , 879-895.		0
15	Review on the Use of Artificial Intelligence to Predict Fire Performance of Construction Materials and Their Flame Retardancy. <i>Molecules</i> , 2021, 26, 1022.	1.7	11
16	Improving performance of additive manufactured (3D printed) concrete: A review on material mix design, processing, interlayer bonding, and reinforcing methods. <i>Structures</i> , 2021, 29, 1597-1609.	1.7	45
17	An integrated approach of BIM-enabled LCA and energy simulation: The optimized solution towards sustainable development. <i>Journal of Cleaner Production</i> , 2021, 289, 125622.	4.6	67
18	Digital design computing and modelling for 3-D concrete printing. <i>Automation in Construction</i> , 2021, 123, 103529.	4.8	47

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19	Accelerated carbonation technology for enhanced treatment of recycled concrete aggregates: A state-of-the-art review. <i>Construction and Building Materials</i> , 2021, 282, 122671.	3.2	85
20	Thermal and environmental impact analysis of rice husk ash-based mortar as insulating wall plaster. <i>Construction and Building Materials</i> , 2021, 283, 122744.	3.2	34
21	Preliminary evaluation of the feasibility of using polypropylene fibres from COVID-19 single-use face masks to improve the mechanical properties of concrete. <i>Journal of Cleaner Production</i> , 2021, 296, 126460.	4.6	92
22	Development of BIM, IoT and AR/VR technologies for fire safety and upskilling. <i>Automation in Construction</i> , 2021, 125, 103631.	4.8	105
23	A critical review of combined natural ventilation techniques in sustainable buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110795.	8.2	93
24	The impacts of occupant behavior on building energy consumption: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101212.	1.7	32
25	Construction Cost and Carbon Emission Assessment of a Highway Construction – A Case towards Sustainable Transportation. <i>Sustainability</i> , 2021, 13, 7854.	1.6	12
26	Energy assessment methods for solar chimney in buildings: A review. <i>Journal of Renewable and Sustainable Energy</i> , 2021, 13, .	0.8	2
27	An empirical study of green retrofit technologies and policies for aged residential buildings in Hong Kong. <i>Journal of Building Engineering</i> , 2021, 39, 102271.	1.6	15
28	Mechanical performance of fractal-like cementitious lightweight cellular structures: Numerical investigations. <i>Composite Structures</i> , 2021, 269, 114050.	3.1	25
29	A decision-making tool to assess external costs of disaster induced bridge failure. <i>International Journal of Disaster Risk Reduction</i> , 2021, 64, 102506.	1.8	1
30	Deep Learning-Based Applications for Safety Management in the AEC Industry: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 821.	1.3	34
31	Integrated Application of BIM and eXtended Reality Technology: A Review, Classification and Outlook. <i>Lecture Notes in Civil Engineering</i> , 2021, , 1227-1236.	0.3	19
32	Literature Review of Digital Twins Applications in Construction Workforce Safety. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 339.	1.3	100
33	Recycling steel slag from municipal wastewater treatment plants into concrete applications – A step towards circular economy. <i>Resources, Conservation and Recycling</i> , 2020, 152, 104533.	5.3	48
34	Experimental study on the smoke temperature evolution in a polyethylene (PE)-lined compartment on fire. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 1907-1917.	2.0	1
35	A study of sustainable practices in the sustainability leadership of international contractors. <i>Sustainable Development</i> , 2020, 28, 697-710.	6.9	18
36	Postdisaster Impact Assessment of Road Infrastructure: State-of-the-Art Review. <i>Natural Hazards Review</i> , 2020, 21, .	0.8	9

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37	A review on the recovery of fire-damaged concrete with post-fire-curing. <i>Construction and Building Materials</i> , 2020, 237, 117564.	3.2	47
38	External wind on the optimum designing parameters of a wall solar chimney in building. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 42, 100842.	1.7	12
39	Driving factors of total carbon emissions from the construction industry in Jiangsu Province, China. <i>Journal of Cleaner Production</i> , 2020, 276, 123179.	4.6	53
40	Solar chimney in tunnel considering energy-saving and fire safety. <i>Energy</i> , 2020, 210, 118601.	4.5	24
41	Developing a Fuzzy Multi-Criteria Evaluation Model for Prefabrication Development Maturity of Construction Firms. <i>IEEE Access</i> , 2020, 8, 222397-222409.	2.6	3
42	Critical Factors Influencing the Sustainable Construction Capability in Prefabrication of Chinese Construction Enterprises. <i>Sustainability</i> , 2020, 12, 8996.	1.6	17
43	Trombe wall for a residential building in Sichuan-Tibet Alpine valley – A case study. <i>Renewable Energy</i> , 2020, 156, 31-46.	4.3	39
44	Exploring the impact of stakeholder management strategies on managing issues in PPP projects. <i>International Journal of Construction Management</i> , 2020, 20, 666-678.	2.2	23
45	Effect of roof to wall connection stiffness variations on the load sharing and hold-down forces of Australian timber-framed houses. <i>Structures</i> , 2020, 27, 141-150.	1.7	8
46	Sustainable criterion selection framework for green building materials – An optimisation based study of fly-ash Geopolymer concrete. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00178.	1.7	55
47	Solar chimney for a real building considering both energy-saving and fire safety – a case study. <i>Energy and Buildings</i> , 2020, 221, 110016.	3.1	33
48	Bioinspired cellular cementitious structures for prefabricated construction: Hybrid design & performance evaluations. <i>Automation in Construction</i> , 2020, 119, 103324.	4.8	42
49	A review of internal and external influencing factors on energy efficiency design of buildings. <i>Energy and Buildings</i> , 2020, 216, 109944.	3.1	87
50	Outdoor Thermal Comfort of Urban Park – A Case Study. <i>Sustainability</i> , 2020, 12, 1961.	1.6	45
51	Empirical Bid or No Bid Decision Process in International Construction Projects: Structural Equation Modeling Framework. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020, 146, .	2.0	20
52	Building green retrofit in China: Policies, barriers and recommendations. <i>Energy Policy</i> , 2020, 139, 111356.	4.2	91
53	Numerical simulation of two-way fluid-structure interaction of wind loading on buildings. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2020, 43, 225-240.	0.6	5
54	Sustainability Leaders in Construction Industry: A Preliminary Study. , 2020, , .		0

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55	Impediments affecting a comprehensive emission assessment at the construction stage of a building. International Journal of Construction Management, 2019, , 1-11.	2.2	5
56	Optimizing the energy consumption in a residential building at different climate zones: Towards sustainable decision making. Journal of Cleaner Production, 2019, 233, 634-649.	4.6	35
57	Interaction effect of room opening and air inlet on solar chimney performance. Applied Thermal Engineering, 2019, 159, 113877.	3.0	36
58	Case-based reasoning approach for supporting building green retrofit decisions. Building and Environment, 2019, 160, 106210.	3.0	41
59	Challenges in public private partnerships in construction industry. Built Environment Project and Asset Management, 2019, 9, 172-185.	0.9	22
60	Direct and indirect impact assessment in off-site constructionâ€™A case study in China. Sustainable Cities and Society, 2019, 48, 101520.	5.1	42
61	Bid/no-bid decision factors for Chinese international contractors in international construction projects. Engineering, Construction and Architectural Management, 2019, 27, 1619-1643.	1.8	20
62	Estimation of environmental emissions and impacts of building construction â€™A decision making tool for contractors. Journal of Building Engineering, 2019, 21, 173-185.	1.6	49
63	Direct and indirect carbon emissions in foundation construction â€™ Two case studies of driven precast and cast-in-situ piles. Journal of Cleaner Production, 2019, 211, 1517-1526.	4.6	36
64	Study on optimizing design of solar chimney for natural ventilation and smoke exhaustion. Energy and Buildings, 2018, 170, 145-156.	3.1	42
65	Greenhouse gas emissions during timber and concrete building construction â€™A scenario based comparative case study. Sustainable Cities and Society, 2018, 38, 91-97.	5.1	90
66	A method of detecting the cracks of concrete undergo high-temperature. Construction and Building Materials, 2018, 162, 345-358.	3.2	51
67	Determining the influencing factors on the performance of solar chimney in buildings. Renewable and Sustainable Energy Reviews, 2018, 88, 223-238.	8.2	103
68	Community adaptation to cope with disaster related road structure failure. Procedia Engineering, 2018, 212, 1355-1362.	1.2	7
69	Greenhouse gas emissions of different fly ash based geopolymers concretes in building construction. Journal of Cleaner Production, 2018, 204, 399-408.	4.6	103
70	Improving the performance of solar chimney by addressing the designing factors. IOP Conference Series: Earth and Environmental Science, 2018, 168, 012010.	0.2	4
71	Correlation of Building Parameters with Energy Reduction. , 2018, , .		3
72	The evolution of stakeholder management practices in Australian mega construction projects. Engineering, Construction and Architectural Management, 2018, 25, 690-706.	1.8	36

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73	A comparative method of air emission impact assessment for building construction activities. Environmental Impact Assessment Review, 2018, 68, 1-9.	4.4	42
74	PRIORITISING SUSTAINABILITY FACTORS FOR AUSTRALIAN COMMUNITY BUILDINGS'™ MANAGEMENT USING ANALYTICAL HIERARCHY PROCESS (AHP). International Journal of Strategic Property Management, 2018, 24, 37-50.	0.8	7
75	Markov Process for Deterioration Modeling and Asset Management of Community Buildings. Journal of Construction Engineering and Management - ASCE, 2017, 143, 04017003.	2.0	14
76	Factors that influence Australian community buildings'™ sustainable management. Engineering, Construction and Architectural Management, 2017, 24, 94-117.	1.8	12
77	Estimation and comparison of environmental emissions and impacts at foundation and structure construction stages of a building " A case study. Journal of Cleaner Production, 2017, 151, 319-329.	4.6	50
78	Major Participants in the Construction Industry and Their Approaches to Risks: A Theoretical Framework. Procedia Engineering, 2017, 182, 314-320.	1.2	18
79	Effects of cement dosage and cooling regimes on the compressive strength of concrete after post-fire-curing from 800 Å°C. Construction and Building Materials, 2017, 142, 208-220.	3.2	42
80	A risk assessment method to quantitatively investigate the methane explosion in underground coal mine. Chemical Engineering Research and Design, 2017, 107, 317-333.	2.7	64
81	Selection of emission factor standards for estimating emissions from diesel construction equipment in building construction in the Australian context. Journal of Environmental Management, 2017, 187, 527-536.	3.8	31
82	An experimental and numerical study on fire behaviors of charring materials frequently used in buildings. Energy and Buildings, 2017, 138, 140-153.	3.1	15
83	Characterization of the Generation Rate of Demolition Waste in Shenzhen, a Mega City of China. , 2017, , 1091-1100.		1
84	A FAST AND ACCURATE METHOD TO PREDICT RELIABILITY OF PROJECT COMPLETION TIME. Journal of Civil Engineering and Management, 2016, 23, 37-46.	1.9	9
85	Demolition waste generation and recycling potentials in a rapidly developing flagship megacity of South China: Prospective scenarios and implications. Construction and Building Materials, 2016, 113, 1007-1016.	3.2	106
86	An empirical model to predict the performance of typical solar chimneys considering both room and cavity configurations. Building and Environment, 2016, 103, 250-261.	3.0	57
87	Developing an empirical model for roof solar chimney based on experimental data from various test rigs. Building and Environment, 2016, 110, 115-128.	3.0	43
88	Life cycle assessment of shipping container home: A sustainable construction. Energy and Buildings, 2016, 128, 673-685.	3.1	62
89	Models and method for estimation and comparison of direct emissions in building construction in Australia and a case study. Energy and Buildings, 2016, 126, 128-138.	3.1	56
90	Environmental emissions at foundation construction stage of buildings " Two case studies. Building and Environment, 2016, 95, 189-198.	3.0	108

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91	Markov Model-Based Building Deterioration Prediction and ISO Factor Analysis for Building Management. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	31
92	Impact of Transaction Attributes on Transaction Costs in Project Alliances: Disaggregated Analysis. Journal of Management in Engineering - ASCE, 2015, 31, .	2.6	16
93	Impediments to Implementing Design for Construction Safety. , 2015, , 313-326.		1
94	Environmental Emissions of Construction Equipment Usage in Pile Foundation Construction Process—A Case Study. , 2015, , 327-339.		11
95	Payback Period Based Prioritization of Building Retrofit Technologies: An Innovative Use of Critical Path Method. , 2015, , 357-368.		2
96	Analysis of Factors Influencing the Performance of HVAC Retrofits. , 2015, , 205-217.		0
97	Using Shipping Containers to Provide Temporary Housing in Post-disaster Recovery: Social Case Studies. Procedia Economics and Finance, 2014, 18, 618-625.	0.6	25
98	Factors influencing the service lifespan of buildings: An improved hedonic model. Habitat International, 2014, 43, 274-282.	2.3	53
99	An innovative software tool for enhanced building life cycle management and maintenance forecasting deployed via cloud. , 2014, , .		0
100	Application of Gamma Process for Building Deterioration Prediction. Journal of Performance of Constructed Facilities, 2013, 27, 763-773.	1.0	24
101	Factor analysis for establishing a decision making framework for the sustainable management of community buildings in Australia. , 2012, , .		1
102	Factor analysis of partners' commitment to risk management in public-private partnership projects. Construction Innovation, 2012, 12, 297-316.	1.5	15
103	Overview of alliancing research and practice in the construction industry. Architectural Engineering and Design Management, 2012, 8, 103-119.	1.2	46
104	Application of Gamma Process for Deterioration Prediction of Buildings from Discrete Condition Data. Sri Lankan Journal of Applied Statistics, 2012, 12, 13.	0.1	7
105	Critical uncertainty factors for efficient allocation of demand risk in privately financed public infrastructure projects in Australia. International Journal of Project Organisation and Management, 2011, 3, 243.	0.0	0
106	Modelling optimal risk allocation in PPP projects using artificial neural networks. International Journal of Project Management, 2011, 29, 591-603.	2.7	190
107	Risk factor analysis of the Chinese building energy efficiency market using system dynamics methodology. International Journal of Project Organisation and Management, 2011, 3, 352.	0.0	2
108	Comparative Study on the Perception of Construction Safety Risks in China and Australia. Journal of Construction Engineering and Management - ASCE, 2009, 135, 620-627.	2.0	71

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109	Managing Risks in Construction Projects: Life Cycle and Stakeholder Perspectives. International Journal of Construction Management, 2009, 9, 61-77.	2.2	58
110	Fuzzy Analytical Hierarchy Process Risk Assessment Approach for Joint Venture Construction Projects in China. Journal of Construction Engineering and Management - ASCE, 2007, 133, 771-779.	2.0	109
111	Understanding the key risks in construction projects in China. International Journal of Project Management, 2007, 25, 601-614.	2.7	592