

# Guomin Zhang

## List of Publications by Year in descending order

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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	Understanding the key risks in construction projects in China. <i>International Journal of Project Management</i> , 2007, 25, 601-614.	2.7	592
2	Modelling optimal risk allocation in PPP projects using artificial neural networks. <i>International Journal of Project Management</i> , 2011, 29, 591-603.	2.7	190
3	Fuzzy Analytical Hierarchy Process Risk Assessment Approach for Joint Venture Construction Projects in China. <i>Journal of Construction Engineering and Management - ASCE</i> , 2007, 133, 771-779.	2.0	109
4	Environmental emissions at foundation construction stage of buildings – Two case studies. <i>Building and Environment</i> , 2016, 95, 189-198.	3.0	108
5	Demolition waste generation and recycling potentials in a rapidly developing flagship megacity of South China: Prospective scenarios and implications. <i>Construction and Building Materials</i> , 2016, 113, 1007-1016.	3.2	106
6	Development of BIM, IoT and AR/VR technologies for fire safety and upskilling. <i>Automation in Construction</i> , 2021, 125, 103631.	4.8	105
7	Determining the influencing factors on the performance of solar chimney in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 88, 223-238.	8.2	103
8	Greenhouse gas emissions of different fly ash based geopolymer concretes in building construction. <i>Journal of Cleaner Production</i> , 2018, 204, 399-408.	4.6	103
9	Literature Review of Digital Twins Applications in Construction Workforce Safety. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 339.	1.3	100
10	A critical review of combined natural ventilation techniques in sustainable buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110795.	8.2	93
11	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
12	Building green retrofit in China: Policies, barriers and recommendations. <i>Energy Policy</i> , 2020, 139, 111356.	4.2	91
13	Greenhouse gas emissions during timber and concrete building construction – A scenario based comparative case study. <i>Sustainable Cities and Society</i> , 2018, 38, 91-97.	5.1	90
14	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
15	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
16	Comparative Study on the Perception of Construction Safety Risks in China and Australia. <i>Journal of Construction Engineering and Management - ASCE</i> , 2009, 135, 620-627.	2.0	71
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	A risk assessment method to quantitatively investigate the methane explosion in underground coal mine. <i>Chemical Engineering Research and Design</i> , 2017, 107, 317-333.	2.7	64

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19	Life cycle assessment of shipping container home: A sustainable construction. <i>Energy and Buildings</i> , 2016, 128, 673-685.	3.1	62
20	Managing Risks in Construction Projects: Life Cycle and Stakeholder Perspectives. <i>International Journal of Construction Management</i> , 2009, 9, 61-77.	2.2	58
21	An empirical model to predict the performance of typical solar chimneys considering both room and cavity configurations. <i>Building and Environment</i> , 2016, 103, 250-261.	3.0	57
22	Models and method for estimation and comparison of direct emissions in building construction in Australia and a case study. <i>Energy and Buildings</i> , 2016, 126, 128-138.	3.1	56
23	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
24	Factors influencing the service lifespan of buildings: An improved hedonic model. <i>Habitat International</i> , 2014, 43, 274-282.	2.3	53
25	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
26	A method of detecting the cracks of concrete undergo high-temperature. <i>Construction and Building Materials</i> , 2018, 162, 345-358.	3.2	51
27	Estimation and comparison of environmental emissions and impacts at foundation and structure construction stages of a building – A case study. <i>Journal of Cleaner Production</i> , 2017, 151, 319-329.	4.6	50
28	Estimation of environmental emissions and impacts of building construction – A decision making tool for contractors. <i>Journal of Building Engineering</i> , 2019, 21, 173-185.	1.6	49
29	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
30	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
31	Digital design computing and modelling for 3-D concrete printing. <i>Automation in Construction</i> , 2021, 123, 103529.	4.8	47
32	Overview of alliancing research and practice in the construction industry. <i>Architectural Engineering and Design Management</i> , 2012, 8, 103-119.	1.2	46
33	Designing Post COVID-19 Buildings: Approaches for Achieving Healthy Buildings. <i>Buildings</i> , 2022, 12, 74.	1.4	46
34	Outdoor Thermal Comfort of Urban Park – A Case Study. <i>Sustainability</i> , 2020, 12, 1961.	1.6	45
35	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
36	Developing an empirical model for roof solar chimney based on experimental data from various test rigs. <i>Building and Environment</i> , 2016, 110, 115-128.	3.0	43

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37	Effects of cement dosage and cooling regimes on the compressive strength of concrete after post-fire-curing from 800 Å°C. <i>Construction and Building Materials</i> , 2017, 142, 208-220.	3.2	42
38	Study on optimizing design of solar chimney for natural ventilation and smoke exhaustion. <i>Energy and Buildings</i> , 2018, 170, 145-156.	3.1	42
39	Direct and indirect impact assessment in off-site constructionâ€™A case study in China. <i>Sustainable Cities and Society</i> , 2019, 48, 101520.	5.1	42
40	Bioinspired cellular cementitious structures for prefabricated construction: Hybrid design & performance evaluations. <i>Automation in Construction</i> , 2020, 119, 103324.	4.8	42
41	A comparative method of air emission impact assessment for building construction activities. <i>Environmental Impact Assessment Review</i> , 2018, 68, 1-9.	4.4	42
42	Case-based reasoning approach for supporting building green retrofit decisions. <i>Building and Environment</i> , 2019, 160, 106210.	3.0	41
43	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
44	Trombe wall for a residential building in Sichuan-TibetÅAlpine valley â€™ A case study. <i>Renewable Energy</i> , 2020, 156, 31-46.	4.3	39
45	The evolution of stakeholder management practices in Australian mega construction projects. <i>Engineering, Construction and Architectural Management</i> , 2018, 25, 690-706.	1.8	36
46	Interaction effect of room opening and air inlet on solar chimney performance. <i>Applied Thermal Engineering</i> , 2019, 159, 113877.	3.0	36
47	Direct and indirect carbon emissions in foundation construction â€™ Two case studies of driven precast and cast-in-situ piles. <i>Journal of Cleaner Production</i> , 2019, 211, 1517-1526.	4.6	36
48	Optimizing the energy consumption in a residential building at different climate zones: Towards sustainable decision making. <i>Journal of Cleaner Production</i> , 2019, 233, 634-649.	4.6	35
49	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
50	Deep Learning-Based Applications for Safety Management in the AEC Industry: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 821.	1.3	34
51	Solar chimney for a real building considering both energy-saving and fire safety â€™ a case study. <i>Energy and Buildings</i> , 2020, 221, 110016.	3.1	33
52	The impacts of occupant behavior on building energy consumption: A review. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101212.	1.7	32
53	Markov Modelâ€™Based Building Deterioration Prediction and ISO Factor Analysis for Building Management. <i>Journal of Management in Engineering - ASCE</i> , 2015, 31, .	2.6	31
54	Selection of emission factor standards for estimating emissions from diesel construction equipment in building construction in the Australian context. <i>Journal of Environmental Management</i> , 2017, 187, 527-536.	3.8	31

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55	Ventilation performance of a naturally ventilated double-skin facade in buildings. <i>Renewable Energy</i> , 2021, 167, 184-198.	4.3	29
56	Using Shipping Containers to Provide Temporary Housing in Post-disaster Recovery: Social Case Studies. <i>Procedia Economics and Finance</i> , 2014, 18, 618-625.	0.6	25
57	Mechanical performance of fractal-like cementitious lightweight cellular structures: Numerical investigations. <i>Composite Structures</i> , 2021, 269, 114050.	3.1	25
58	Application of Gamma Process for Building Deterioration Prediction. <i>Journal of Performance of Constructed Facilities</i> , 2013, 27, 763-773.	1.0	24
59	Solar chimney in tunnel considering energy-saving and fire safety. <i>Energy</i> , 2020, 210, 118601.	4.5	24
60	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
61	Challenges in public private partnerships in construction industry. <i>Built Environment Project and Asset Management</i> , 2019, 9, 172-185.	0.9	22
62	Bid/no-bid decision factors for Chinese international contractors in international construction projects. <i>Engineering, Construction and Architectural Management</i> , 2019, 27, 1619-1643.	1.8	20
63	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
64	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
65	Major Participants in the Construction Industry and Their Approaches to Risks: A Theoretical Framework. <i>Procedia Engineering</i> , 2017, 182, 314-320.	1.2	18
66	A study of sustainable practices in the sustainability leadership of international contractors. <i>Sustainable Development</i> , 2020, 28, 697-710.	6.9	18
67	Critical Factors Influencing the Sustainable Construction Capability in Prefabrication of Chinese Construction Enterprises. <i>Sustainability</i> , 2020, 12, 8996.	1.6	17
68	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
69	Impact of Transaction Attributes on Transaction Costs in Project Alliances: Disaggregated Analysis. <i>Journal of Management in Engineering - ASCE</i> , 2015, 31, .	2.6	16
70	A systematic review of green construction research using scientometrics methods. <i>Journal of Cleaner Production</i> , 2022, 366, 132710.	4.6	16
71	Factor analysis of partners' commitment to risk management in public-private partnership projects. <i>Construction Innovation</i> , 2012, 12, 297-316.	1.5	15
72	An experimental and numerical study on fire behaviors of charring materials frequently used in buildings. <i>Energy and Buildings</i> , 2017, 138, 140-153.	3.1	15

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73	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
74	Markov Process for Deterioration Modeling and Asset Management of Community Buildings. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017, 143, 04017003.	2.0	14
75	Factors that influence Australian community buildings'™ sustainable management. <i>Engineering, Construction and Architectural Management</i> , 2017, 24, 94-117.	1.8	12
76	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
77	Construction Cost and Carbon Emission Assessment of a Highway Construction'™ A Case towards Sustainable Transportation. <i>Sustainability</i> , 2021, 13, 7854.	1.6	12
78	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
79	Environmental Emissions of Construction Equipment Usage in Pile Foundation Construction Process'™ A Case Study. , 2015, , 327-339.		11
80	Machine learning-based surrogate model for calibrating fire source properties in FDS models of facade fire tests. <i>Fire Safety Journal</i> , 2022, 130, 103591.	1.4	11
81	A FAST AND ACCURATE METHOD TO PREDICT RELIABILITY OF PROJECT COMPLETION TIME. <i>Journal of Civil Engineering and Management</i> , 2016, 23, 37-46.	1.9	9
82	Postdisaster Impact Assessment of Road Infrastructure: State-of-the-Art Review. <i>Natural Hazards Review</i> , 2020, 21, .	0.8	9
83	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
84	Community adaptation to cope with disaster related road structure failure. <i>Procedia Engineering</i> , 2018, 212, 1355-1362.	1.2	7
85	PRIORITISING SUSTAINABILITY FACTORS FOR AUSTRALIAN COMMUNITY BUILDINGS'™ MANAGEMENT USING ANALYTICAL HIERARCHY PROCESS (AHP). <i>International Journal of Strategic Property Management</i> , 2018, 24, 37-50.	0.8	7
86	Application of Gamma Process for Deterioration Prediction of Buildings from Discrete Condition Data. <i>Sri Lankan Journal of Applied Statistics</i> , 2012, 12, 13.	0.1	7
87	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
88	Impediments affecting a comprehensive emission assessment at the construction stage of a building. <i>International Journal of Construction Management</i> , 2019, , 1-11.	2.2	5
89	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
90	A combined wall and roof solar chimney in one building. <i>Energy</i> , 2022, 240, 122480.	4.5	5

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91	Improving the performance of solar chimney by addressing the designing factors. IOP Conference Series: Earth and Environmental Science, 2018, 168, 012010.	0.2	4
92	Developing a Model for Assessing Project Completion Time Reliability during Construction Using Time-Dependent Reliability Theory. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	2.0	4
93	Correlation of Building Parameters with Energy Reduction. , 2018, , .		3
94	Developing a Fuzzy Multi-Criteria Evaluation Model for Prefabrication Development Maturity of Construction Firms. IEEE Access, 2020, 8, 222397-222409.	2.6	3
95	Life cycle assessment (LCA) of concrete containing waste materials. , 2022, , 637-659.		3
96	Solar chimney performance in buildings under three heating modes: An empirical analysis. Sustainable Energy Technologies and Assessments, 2022, 52, 102222.	1.7	3
97	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
98	Energy assessment methods for solar chimney in buildings: A review. Journal of Renewable and Sustainable Energy, 2021, 13, .	0.8	2
99	Payback Period Based Prioritization of Building Retrofit Technologies: An Innovative Use of Critical Path Method. , 2015, , 357-368.		2
100	Factor analysis for establishing a decision making framework for the sustainable management of community buildings in Australia. , 2012, , .		1
101	Experimental study on the smoke temperature evolution in a polyethylene (PE)-lined compartment on fire. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1907-1917.	2.0	1
102	Decision-making model for sustainable management of Australian community buildings: combined approach using analytical hierarchy process and neuro-fuzzy system. International Journal of Construction Management, 2023, 23, 1299-1310.	2.2	1
103	A decision-making tool to assess external costs of disaster induced bridge failure. International Journal of Disaster Risk Reduction, 2021, 64, 102506.	1.8	1
104	Impediments to Implementing Design for Construction Safety. , 2015, , 313-326.		1
105	Characterization of the Generation Rate of Demolition Waste in Shenzhen, a Mega City of China. , 2017, , 1091-1100.		1
106	Ventilating aged-care center based on solar chimney: Design and theoretical analysis. Energy and Buildings, 2022, 266, 112145.	3.1	1
107	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
108	An innovative software tool for enhanced building life cycle management and maintenance forecasting deployed via cloud. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
109	Chinese Public-Private Partnership (PPP) Project Development Characteristics: An Interview Study. , 2021, , 879-895.		0
110	Analysis of Factors Influencing the Performance of HVAC Retrofits. , 2015, , 205-217.		0
111	Sustainability Leaders in Construction Industry: A Preliminary Study. , 2020, , .		0