

Wei Pan

List of Publications by Year in Descending Order

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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.

111
papers

2,727
citations

27
h-index

48
g-index

127
ext. papers

3,597
ext. citations

5.2
avg, IF

6.31
L-index

#	Paper	IF	Citations
111	Novel discrete diaphragm system of concrete high-rise modular buildings. <i>Journal of Building Engineering</i> , 2022 , 51, 104342	5.2	0
110	Review fuzzy multi-criteria decision-making in construction management using a network approach. <i>Applied Soft Computing Journal</i> , 2021 , 102, 107103	7.5	7
109	Sources of Uncertainties in Offsite Logistics of Modular Construction for High-Rise Building Projects. <i>Journal of Management in Engineering - ASCE</i> , 2021 , 37, 04021011	5.3	14
108	Diverse occupant behaviors and energy conservation opportunities for university student residences in Hong Kong. <i>Building and Environment</i> , 2021 , 195, 107730	6.5	4
107	Fighting Covid-19 through fast delivery of a modular quarantine camp with smart construction. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2021 , 174, 89-96	0.4	2
106	Critical considerations on tower crane layout planning for high-rise modular integrated construction. <i>Engineering, Construction and Architectural Management</i> , 2021 , ahead-of-print,	3.1	1
105	Multi-criteria decision analysis for tower crane layout planning in high-rise modular integrated construction. <i>Automation in Construction</i> , 2021 , 127, 103709	9.6	9
104	Construction project productivity evaluation framework with expanded system boundaries. <i>Engineering, Construction and Architectural Management</i> , 2021 , 28, 863-885	3.1	3
103	Automated guided vehicles in modular integrated construction: potentials and future directions. <i>Construction Innovation</i> , 2021 , 21, 85-104	4.1	5
102	A system boundary-based critical review on crane selection in building construction. <i>Automation in Construction</i> , 2021 , 123, 103520	9.6	10
101	Drivers, barriers and strategies for zero carbon buildings in high-rise high-density cities. <i>Energy and Buildings</i> , 2021 , 242, 110970	7	9
100	Parametric study on module wall-core system of concrete modular high-rises considering the influence of vertical inter-module connections. <i>Engineering Structures</i> , 2021 , 241, 112436	4.7	6
99	Virtual reality supported interactive tower crane layout planning for high-rise modular integrated construction. <i>Automation in Construction</i> , 2021 , 130, 103854	9.6	2
98	Evaluating energy saving behavioral interventions through the lens of social practice theory: A case study in Hong Kong. <i>Energy and Buildings</i> , 2021 , 251, 111353	7	2
97	Module equivalent frame method for structural design of concrete high-rise modular buildings. <i>Journal of Building Engineering</i> , 2021 , 44, 103214	5.2	1
96	Examining energy saving behaviors in student dormitories using an expanded theory of planned behavior. <i>Habitat International</i> , 2021 , 107, 102308	4.6	24
95	Positioning construction workers' vocational training of Guangdong in the global political-economic spectrum of skill formation. <i>Engineering, Construction and Architectural Management</i> , 2021 , ahead-of-print,	3.1	3

94	Formulating Systemic Construction Productivity Enhancement Strategies. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 05020008	4.2	6
93	Relationship between operational energy and life cycle cost performance of high-rise office buildings. <i>Journal of Cleaner Production</i> , 2020 , 262, 121300	10.3	4
92	Lift planning and optimization in construction: A thirty-year review. <i>Automation in Construction</i> , 2020 , 118, 103271	9.6	11
91	Modularisation strategies in the AEC industry: a comparative analysis. <i>Architectural Engineering and Design Management</i> , 2020 , 16, 270-292	1.2	5
90	Understanding the Determinants of Construction Robot Adoption: Perspective of Building Contractors. <i>Journal of Construction Engineering and Management - ASCE</i> , 2020 , 146, 04020040	4.2	10
89	A hybrid coupled wall system with replaceable steel coupling beams for high-rise modular buildings. <i>Journal of Building Engineering</i> , 2020 , 31, 101355	5.2	13
88	A demand-supply-regulation-institution stakeholder partnership model of delivering zero carbon buildings. <i>Sustainable Cities and Society</i> , 2020 , 62, 102359	10.1	9
87	Estimating and minimizing embodied carbon of prefabricated high-rise residential buildings considering parameter, scenario and model uncertainties. <i>Building and Environment</i> , 2020 , 180, 106951	6.5	12
86	Influencing factors of the future utilisation of construction robots for buildings: A Hong Kong perspective. <i>Journal of Building Engineering</i> , 2020 , 30, 101220	5.2	12
85	Energy use of subtropical high-rise public residential buildings and impacts of energy saving measures. <i>Journal of Cleaner Production</i> , 2020 , 254, 120041	10.3	23
84	In-situ monitoring of occupant behavior in residential buildings - a timely review. <i>Energy and Buildings</i> , 2020 , 212, 109811	7	12
83	Multiple influencing factors analysis of household energy consumption in high-rise residential buildings: Evidence from Hong Kong. <i>Building Simulation</i> , 2020 , 13, 753-769	3.9	16
82	Briefing: Bringing clarity and new understanding of smart and modular integrated construction. <i>Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction</i> , 2020 , 173, 175-179	0.5	0
81	Social Network Analysis of Building Energy and Carbon Policy Networks in Developing Countries. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020 , 588, 022004	0.3	1
80	Virtual Reality Supported Site Layout Planning for Modular Integrated Construction of High-Rise Buildings 2020 ,		1
79	Implications of Construction Vocational Education and Training for Regional Competitiveness: Case Study of Singapore and Hong Kong. <i>Journal of Management in Engineering - ASCE</i> , 2020 , 36, 05019010	5.3	11
78	Virtual prototyping- and transfer learning-enabled module detection for modular integrated construction. <i>Automation in Construction</i> , 2020 , 120, 103387	9.6	17
77	Knowledge, attitude and practice towards zero carbon buildings: Hong Kong case. <i>Journal of Cleaner Production</i> , 2020 , 274, 122819	10.3	7

76	Structural design of high-rise buildings using steel-framed modules: A case study in Hong Kong. <i>Structural Design of Tall and Special Buildings</i> , 2020 , 29, e1788	1.8	3
75	Stakeholder Perceptions of the Future Application of Construction Robots for Buildings in a Dialectical System Framework. <i>Journal of Management in Engineering - ASCE</i> , 2020 , 36, 04020080	5.3	7
74	Relationally Integrated Value Networks for Total Asset Management in Project Portfolios. <i>Infrastructure Asset Management</i> , 2020 , 1-12	1.8	2
73	Briefing: Modular integrated construction for high-rise buildings. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , 2020 , 173, 64-68	0.5	16
72	High-rise modular buildings with innovative precast concrete shear walls as a lateral force resisting system. <i>Structures</i> , 2020 , 26, 39-53	3.4	16
71	Structuring the context for construction robot development through integrated scenario approach. <i>Automation in Construction</i> , 2020 , 114, 103174	9.6	17
70	Co-evolution through interaction of innovative building technologies: The case of modular integrated construction and robotics. <i>Automation in Construction</i> , 2019 , 107, 102932	9.6	31
69	Opportunities and risks of implementing zero-carbon building policy for cities: Hong Kong case. <i>Applied Energy</i> , 2019 , 256, 113835	10.7	8
68	Engineering modular integrated construction for high-rise building: a case study in Hong Kong. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2019 , 172, 51-57	0.4	9
67	Uniaxial Tensile Behavior of Carbon Textile Reinforced Mortar. <i>Materials</i> , 2019 , 12,	3.5	9
66	Systematic embodied carbon assessment and reduction of prefabricated high-rise public residential buildings in Hong Kong. <i>Journal of Cleaner Production</i> , 2019 , 238, 117791	10.3	32
65	Determinants of Adoption of Robotics in Precast Concrete Production for Buildings. <i>Journal of Management in Engineering - ASCE</i> , 2019 , 35, 05019007	5.3	24
64	Improving accuracy in building energy simulation via evaluating occupant behaviors: A case study in Hong Kong. <i>Energy and Buildings</i> , 2019 , 202, 109373	7	16
63	Virtual reality (VR) supported lift planning for modular integrated construction (MiC) of high-rise buildings. <i>HKIE Transactions</i> , 2019 , 26, 136-143	2.9	8
62	PESTEL Analysis of Construction Productivity Enhancement Strategies: A Case Study of Three Economies. <i>Journal of Management in Engineering - ASCE</i> , 2019 , 35, 05018013	5.3	33
61	Briefing: Life-cycle carbon assessment of prefabricated buildings: challenges and solutions. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 2019 , 172, 3-8	0.9	5
60	A framework of indicators for assessing construction automation and robotics in the sustainability context. <i>Journal of Cleaner Production</i> , 2018 , 182, 82-95	10.3	73
59	Life cycle energy of high-rise office buildings in Hong Kong. <i>Energy and Buildings</i> , 2018 , 167, 152-164	7	27

58	Reducing building life cycle carbon emissions through prefabrication: Evidence from and gaps in empirical studies. <i>Building and Environment</i> , 2018 , 132, 125-136	6.5	73
57	High-Rise Modular Building: Ten-Year Journey and Future Development 2018 ,		7
56	A Framework for Utilizing Automated and Robotic Construction for Sustainable Building 2018 , 79-88		0
55	Disentangling the relationships between business model innovation for low or zero carbon buildings and its influencing factors using structural equation modelling. <i>Journal of Cleaner Production</i> , 2018 , 178, 154-165	10.3	16
54	Rethinking system boundaries of the life cycle carbon emissions of buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 379-390	16.2	41
53	Searching for an optimal level of prefabrication in construction: An analytical framework. <i>Journal of Cleaner Production</i> , 2018 , 201, 236-245	10.3	65
52	Flexural Behaviour of Carbon Textile-Reinforced Concrete with Prestress and Steel Fibres. <i>Polymers</i> , 2018 , 10,	4.5	19
51	Rethinking construction productivity theory and practice. <i>Built Environment Project and Asset Management</i> , 2018 , 8, 234-238	1.9	12
50	INFLUENCING PARAMETERS OF THE LIFE CYCLE COST-ENERGY RELATIONSHIP OF BUILDINGS. <i>Journal of Green Building</i> , 2018 , 13, 103-121	1.3	11
49	Fuzzy Set Theory and Extensions for Multi-criteria Decision-making in Construction Management 2018 , 179-228		2
48	Analysis of Embodied Energy of High-Rise Office Buildings in Hong Kong 2018 ,		1
47	Comparing Life Cycle Assessment Databases for Estimating Carbon Emissions of Prefabricated Buildings 2018 ,		1
46	Engineering modular systems for high-rise buildings: an update. <i>Proceedings of the Institution of Civil Engineers: Civil Engineering</i> , 2018 , 171, 148-148	0.4	4
45	A dialectical system framework of zero carbon emission building policy for high-rise high-density cities: Perspectives from Hong Kong. <i>Journal of Cleaner Production</i> , 2018 , 205, 1-13	10.3	25
44	A systemic exploration of drivers for and constraints on construction productivity enhancement. <i>Built Environment Project and Asset Management</i> , 2018 , 8, 239-252	1.9	21
43	Flexural behavior of basalt textile-reinforced concrete. <i>Construction and Building Materials</i> , 2018 , 183, 7-21	6.7	24
42	Challenges for energy and carbon modeling of high-rise buildings: The case of public housing in Hong Kong. <i>Resources, Conservation and Recycling</i> , 2017 , 123, 208-218	11.9	24
41	Application of research-informed teaching in the taught-postgraduate education of maritime law. <i>Innovations in Education and Teaching International</i> , 2017 , 54, 428-437	1.3	3

40	AHP-ANP Fuzzy Integral Integrated Network for Evaluating Performance of Innovative Business Models for Sustainable Building. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04017054	4.2	26
39	Co-productive interrelations between business model and zero carbon building. <i>Built Environment Project and Asset Management</i> , 2017 , 7, 353-365	1.9	4
38	A virtual reality integrated design approach to improving occupancy information integrity for closing the building energy performance gap. <i>Sustainable Cities and Society</i> , 2016 , 27, 275-286	10.1	60
37	Business model innovation for delivering zero carbon buildings. <i>Sustainable Cities and Society</i> , 2016 , 27, 253-262	10.1	25
36	A review of interdependence of sustainable building. <i>Environmental Impact Assessment Review</i> , 2016 , 56, 120-127	5.3	18
35	Clusters and exemplars of buildings towards zero carbon. <i>Building and Environment</i> , 2016 , 104, 92-101	6.5	29
34	Identifying informative energy data in Bayesian calibration of building energy models. <i>Energy and Buildings</i> , 2016 , 119, 363-376	7	64
33	Zero carbon homes: Perceptions from the UK construction industry. <i>Energy Policy</i> , 2015 , 79, 23-36	7.2	42
32	The dialectics of sustainable building. <i>Habitat International</i> , 2015 , 48, 55-64	4.6	18
31	A BIM-GIS Integrated Web-based Visualization System for Low Energy Building Design. <i>Procedia Engineering</i> , 2015 , 121, 2184-2192		34
30	A socio-technical framework of zero-carbon building policies. <i>Building Research and Information</i> , 2015 , 43, 94-110	4.3	33
29	Delivering Zero Carbon Buildings: The Role of Innovative Business Models. <i>Procedia Engineering</i> , 2015 , 118, 404-411		7
28	Challenges for Modeling Energy Use in High-rise Office Buildings in Hong Kong. <i>Procedia Engineering</i> , 2015 , 121, 513-520		9
27	Major Barriers to Off-Site Construction: The Developer's Perspective in China. <i>Journal of Management in Engineering - ASCE</i> , 2015 , 31, 04014043	5.3	156
26	Defects and Their Influencing Factors of Posthandover New-Build Homes. <i>Journal of Performance of Constructed Facilities</i> , 2015 , 29, 04014119	2	17
25	Dialectics of sustainable building: Evidence from empirical studies 1987-2013. <i>Building and Environment</i> , 2014 , 82, 666-674	6.5	21
24	Linking research and teaching: context, conflict and complementarity. <i>Innovations in Education and Teaching International</i> , 2014 , 51, 3-14	1.3	21
23	The relationship between the quality of active frontages and public perceptions of public spaces. <i>Urban Design International</i> , 2014 , 19, 92-102	1.6	31

22	System boundaries of zero carbon buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 37, 424-434	4.2	70
21	A decade's debate on the nexus between corporate social and corporate financial performance: a critical review of empirical studies 2002-2011. <i>Journal of Cleaner Production</i> , 2014 , 79, 195-206	10.3	134
20	Briefing: Delivering buildings and infrastructure towards zero carbon. <i>Infrastructure Asset Management</i> , 2014 , 1, 60-65	1.8	1
19	A multi-criteria decision framework for the selection of low carbon building measures for office buildings in Hong Kong. <i>International Journal of Energy Sector Management</i> , 2014 , 8, 456-476	2.5	14
18	Informing Energy-efficient Building Envelope Design Decisions for Hong Kong. <i>Energy Procedia</i> , 2014 , 62, 123-131	2.3	9
17	Research-informed teaching from a risk perspective. <i>Teaching in Higher Education</i> , 2013 , 18, 570-585	1.4	14
16	Building regulations in energy efficiency: Compliance in England and Wales. <i>Energy Policy</i> , 2012 , 45, 594-605	6.5	37
15	Briefing: Future trends in UK housebuilding. <i>Proceedings of the Institution of Civil Engineers: Municipal Engineer</i> , 2012 , 165, 65-67	0.5	3
14	Compliance with building energy regulations for new-build dwellings. <i>Energy</i> , 2012 , 48, 11-22	7.9	65
13	Establishing and Weighting Decision Criteria for Building System Selection in Housing Construction. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012 , 138, 1239-1250	4.2	89
12	Strategies for Integrating the Use of Off-Site Production Technologies in House Building. <i>Journal of Construction Engineering and Management - ASCE</i> , 2012 , 138, 1331-1340	4.2	122
11	House-Building Business Models and Off-Site Construction Take-Up. <i>Journal of Architectural Engineering</i> , 2012 , 18, 84-93	1.5	72
10	Decision criteria for selecting air source heat pump technology in UK low carbon housing. <i>Technology Analysis and Strategic Management</i> , 2011 , 23, 623-637	3.2	9
9	Demystifying the cost barriers to offsite construction in the UK. <i>Construction Management and Economics</i> , 2011 , 29, 1081-1099	3	87
8	Strategies for managing innovation in UK housebuilding. <i>Engineering, Construction and Architectural Management</i> , 2010 , 17, 78-88	3.1	10
7	Relationships between air-tightness and its influencing factors of post-2006 new-build dwellings in the UK. <i>Building and Environment</i> , 2010 , 45, 2387-2399	6.5	80
6	Maintenance performance evaluation of offsite and in situ bathrooms. <i>Construction Innovation</i> , 2009 , 9, 7-21	4.1	14
5	Maintenance cost implications of utilizing bathroom modules manufactured offsite. <i>Construction Management and Economics</i> , 2008 , 26, 1067-1077	3	14

4	Leading UK housebuilders' utilization of offsite construction methods. <i>Building Research and Information</i> , 2008 , 36, 56-67	4.3	117
3	Perspectives of UK housebuilders on the use of offsite modern methods of construction. <i>Construction Management and Economics</i> , 2007 , 25, 183-194	3	190
2	Precast Concrete Coupled Shear Wall System of Modular High-rises Without In Situ Cores. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 1-13	1	0
1	Systematic key performance indicators for measuring modular integrated construction. <i>Proceedings of the Institution of Civil Engineers: Engineering Sustainability</i> , 1-16	0.9	1