Wei Pan

List of Publications by Year
in descending order

143 papers	6,511 citations	57758 44 h-index	79698 73 g-index
143 all docs	143 docs citations	143 times ranked	5162 citing authors

#	Article	IF	Citations
1	Rethinking lean synergistically inÂpractice for construction industry improvements. Engineering, Construction and Architectural Management, 2023, 30, 2669-2690.	3.1	4
2	Model-Reference Reinforcement Learning for Collision-Free Tracking Control of Autonomous Surface Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8770-8781.	8.0	21
3	Learning-Based Multi-Robot Formation Control With Obstacle Avoidance. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 11811-11822.	8.0	17
4	Critical considerations on tower crane layout planning for high-rise modular integrated construction. Engineering, Construction and Architectural Management, 2022, 29, 2615-2634.	3.1	13
5	The characteristics and evolution of business model for green buildings: a bibliometric approach. Engineering, Construction and Architectural Management, 2022, 29, 4241-4266.	3.1	5
6	Secure Control for Cyber-Physical Systems Under Malicious Attacks. IEEE Transactions on Control of Network Systems, 2022, 9, 775-788.	3.7	23
7	Systematic key performance indicators for measuring modular integrated construction. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2022, 175, 113-128.	0.7	5
8	A systematic review of the integration of building information modeling into life cycle assessment. Building and Environment, 2022, 221, 109260.	6.9	35
9	Artificial Intelligence and Robotics for Prefabricated and Modular Construction: A Systematic Literature Review. Journal of Construction Engineering and Management - ASCE, 2022, 148, .	3.8	23
10	An innovative crane-lift path planning system for high-rise modular integrated construction. Construction Robotics, 2022, 6, 133-150.	2.2	3
11	Zero-Sum Game-Based Optimal Secure Control Under Actuator Attacks. IEEE Transactions on Automatic Control, 2021, 66, 3773-3780.	5.7	50
12	Stochastic mesoscale circulation dynamics in the thermal ocean. Physics of Fluids, 2021, 33, .	4.0	13
13	Diverse occupant behaviors and energy conservation opportunities for university student residences in Hong Kong. Building and Environment, 2021, 195, 107730.	6.9	16
14	Fighting Covid-19 through fast delivery of a modular quarantine camp with smart construction. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2021, 174, 89-96.	0.3	13
15	Evaluating energy saving behavioral interventions through the lens of social practice theory: A case study in Hong Kong. Energy and Buildings, 2021, 251, 111353.	6.7	5
16	Implications of Construction Vocational Education and Training for Regional Competitiveness: Case Study of Singapore and Hong Kong. Journal of Management in Engineering - ASCE, 2020, 36, .	4.8	20
17	Knowledge, attitude and practice towards zero carbon buildings: Hong Kong case. Journal of Cleaner Production, 2020, 274, 122819.	9.3	15
18	Structural design of highâ€rise buildings using steelâ€framed modules: A case study in Hong Kong. Structural Design of Tall and Special Buildings, 2020, 29, e1788.	1.9	22

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19	Actor-Critic Reinforcement Learning for Control With Stability Guarantee. IEEE Robotics and Automation Letters, 2020, 5, 6217-6224.	5.1	52
20	Formulating Systemic Construction Productivity Enhancement Strategies. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	11
21	Relationship between operational energy and life cycle cost performance of high-rise office buildings. Journal of Cleaner Production, 2020, 262, 121300.	9.3	9
22	Lift planning and optimization in construction: A thirty-year review. Automation in Construction, 2020, 118, 103271.	9.8	32
23	Data-driven versus self-similar parameterizations for stochastic advection by Lie transport and location uncertainty. Nonlinear Processes in Geophysics, 2020, 27, 209-234.	1.3	14
24	Modularisation strategies in the AEC industry: a comparative analysis. Architectural Engineering and Design Management, 2020, 16, 270-292.	1.7	11
25	Understanding the Determinants of Construction Robot Adoption: Perspective of Building Contractors. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	37
26	A hybrid coupled wall system with replaceable steel coupling beams for high-rise modular buildings. Journal of Building Engineering, 2020, 31, 101355.	3.4	19
27	A 'demand-supply-regulation-institution' stakeholder partnership model of delivering zero carbon buildings. Sustainable Cities and Society, 2020, 62, 102359.	10.4	15
28	Estimating and minimizing embodied carbon of prefabricated high-rise residential buildings considering parameter, scenario and model uncertainties. Building and Environment, 2020, 180, 106951.	6.9	48
29	Influencing factors of the future utilisation of construction robots for buildings: A Hong Kong perspective. Journal of Building Engineering, 2020, 30, 101220.	3.4	38
30	Energy use of subtropical high-rise public residential buildings and impacts of energy saving measures. Journal of Cleaner Production, 2020, 254, 120041.	9.3	36
31	In-situ monitoring of occupant behavior in residential buildings – a timely review. Energy and Buildings, 2020, 212, 109811.	6.7	27
32	Data Assimilation for a Quasi-Geostrophic Model with Circulation-Preserving Stochastic Transport Noise. Journal of Statistical Physics, 2020, 179, 1186-1221.	1.2	22
33	Multiple influencing factors analysis of household energy consumption in high-rise residential buildings: Evidence from Hong Kong. Building Simulation, 2020, 13, 753-769.	5.6	29
34	High-rise modular buildings with innovative precast concrete shear walls as a lateral force resisting system. Structures, 2020, 26, 39-53.	3.6	36
35	Structuring the context for construction robot development through integrated scenario approach. Automation in Construction, 2020, 114, 103174.	9.8	41
36	A Particle Filter for Stochastic Advection by Lie Transport: A Case Study for the Damped and Forced Incompressible Two-Dimensional Euler Equation. SIAM-ASA Journal on Uncertainty Quantification, 2020, 8, 1446-1492.	2.0	20

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37	Modelling uncertainty using stochastic transport noise in a 2-layer quasi-geostrophic model. , 2020, 2, 173-205.		26
38	Briefing: Bringing clarity and new understanding of smart and modular integrated construction. Proceedings of the Institution of Civil Engineers - Smart Infrastructure and Construction, 2020, 173, 175-179.	1.7	1
39	Systematic embodied carbon assessment and reduction of prefabricated high-rise public residential buildings in Hong Kong. Journal of Cleaner Production, 2019, 238, 117791.	9.3	62
40	Determinants of Adoption of Robotics in Precast Concrete Production for Buildings. Journal of Management in Engineering - ASCE, 2019, 35, .	4.8	63
41	Improving accuracy in building energy simulation via evaluating occupant behaviors: A case study in Hong Kong. Energy and Buildings, 2019, 202, 109373.	6.7	36
42	Data driven discovery of cyber physical systems. Nature Communications, 2019, 10, 4894.	12.8	118
43	'Co-evolution through interaction' of innovative building technologies: The case of modular integrated construction and robotics. Automation in Construction, 2019, 107, 102932.	9.8	59
44	Opportunities and risks of implementing zero-carbon building policy for cities: Hong Kong case. Applied Energy, 2019, 256, 113835.	10.1	17
45	Numerically Modeling Stochastic Lie Transport in Fluid Dynamics. Multiscale Modeling and Simulation, 2019, 17, 192-232.	1.6	65
46	Engineering modular integrated construction for high-rise building: a case study in Hong Kong. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2019, 172, 51-57.	0.3	14
47	Uniaxial Tensile Behavior of Carbon Textile Reinforced Mortar. Materials, 2019, 12, 374.	2.9	18
48	PESTEL Analysis of Construction Productivity Enhancement Strategies: A Case Study of Three Economies. Journal of Management in Engineering - ASCE, 2019, 35, .	4.8	63
49	Briefing: Life-cycle carbon assessment of prefabricated buildings: challenges and solutions. Proceedings of the Institution of Civil Engineers: Engineering Sustainability, 2019, 172, 3-8.	0.7	12
50	Virtual reality (VR) supported lift planning for modular integrated construction (MiC) of high-rise buildings. HKIE Transactions, 2019, 26, 136-143.	0.1	9
51	A framework of indicators for assessing construction automation and robotics in the sustainability context. Journal of Cleaner Production, 2018, 182, 82-95.	9.3	118
52	Life cycle energy of high-rise office buildings in Hong Kong. Energy and Buildings, 2018, 167, 152-164.	6.7	38
53	Reducing building life cycle carbon emissions through prefabrication: Evidence from and gaps in empirical studies. Building and Environment, 2018, 132, 125-136.	6.9	142
54	High-Rise Modular Building: Ten-Year Journey and Future Development. , 2018, , .		14

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55	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. IEEE Transactions on Control of Network Systems, 2018, 5, 737-747.	3.7	13
56	A Framework for Utilizing Automated and Robotic Construction for Sustainable Building. , 2018, , 79-88.		3
57	Disentangling the relationships between business model innovation for low or zero carbon buildings and its influencing factors using structural equation modelling. Journal of Cleaner Production, 2018, 178, 154-165.	9.3	33
58	Rethinking system boundaries of the life cycle carbon emissions of buildings. Renewable and Sustainable Energy Reviews, 2018, 90, 379-390.	16.4	72
59	Mixed Neural Network Approach for Temporal Sleep Stage Classification. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 324-333.	4.9	192
60	Analysis of Embodied Energy of High-Rise Office Buildings in Hong Kong. , 2018, , .		1
61	Comparing Life Cycle Assessment Databases for Estimating Carbon Emissions of Prefabricated Buildings. , 2018, , .		2
62	A dialectical system framework of zero carbon emission building policy for high-rise high-density cities: Perspectives from Hong Kong. Journal of Cleaner Production, 2018, 205, 1-13.	9.3	49
63	A systemic exploration of drivers for and constraints on construction productivity enhancement. Built Environment Project and Asset Management, 2018, 8, 239-252.	1.6	38
64	Flexural behavior of basalt textile-reinforced concrete. Construction and Building Materials, 2018, 183, 7-21.	7.2	52
65	Searching for an optimal level of prefabrication in construction: An analytical framework. Journal of Cleaner Production, 2018, 201, 236-245.	9.3	108
66	Flexural Behaviour of Carbon Textile-Reinforced Concrete with Prestress and Steel Fibres. Polymers, 2018, 10, 98.	4.5	29
67	Rethinking construction productivity theory and practice. Built Environment Project and Asset Management, 2018, 8, 234-238.	1.6	15
68	Implications of Prefabrication for the Life Cycle Carbon Emissions of High-Rise Buildings in High-Density Urban Environment. , 2018, , .		2
69	Challenges for energy and carbon modeling of high-rise buildings: The case of public housing in Hong Kong. Resources, Conservation and Recycling, 2017, 123, 208-218.	10.8	30
70	Application of research-informed teaching in the taught-postgraduate education of maritime law. Innovations in Education and Teaching International, 2017, 54, 428-437.	2.5	8
71	Preschool children's exposure to story grammar elements during parent–child book reading. Journal of Research in Reading, 2017, 40, 345-364.	2.0	9
72	AHP-ANP–Fuzzy Integral Integrated Network for Evaluating Performance of Innovative Business Models for Sustainable Building. Journal of Construction Engineering and Management - ASCE, 2017, 143, .	3.8	34

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73	Co-productive interrelations between business model and zero carbon building. Built Environment Project and Asset Management, 2017, 7, 353-365.	1.6	6
74	Application of a new resampling method to SEM: a comparison of S-SMART with the bootstrap. International Journal of Research and Method in Education, 2016, 39, 194-207.	1.9	2
75	Clusters and exemplars of buildings towards zero carbon. Building and Environment, 2016, 104, 92-101.	6.9	36
76	Identifying informative energy data in Bayesian calibration of building energy models. Energy and Buildings, 2016, 119, 363-376.	6.7	82
77	Propensity Score Methods in Nursing Research. Nursing Research, 2016, 65, 421-424.	1.7	12
78	A virtual reality integrated design approach to improving occupancy information integrity for closing the building energy performance gap. Sustainable Cities and Society, 2016, 27, 275-286.	10.4	93
79	Business model innovation for delivering zero carbon buildings. Sustainable Cities and Society, 2016, 27, 253-262.	10.4	32
80	Self-Care and Mobility Following Postacute Rehabilitation for Older Adults With Hip Fracture: A Multilevel Analysis. Archives of Physical Medicine and Rehabilitation, 2016, 97, 760-771.	0.9	14
81	A review of interdependence of sustainable building. Environmental Impact Assessment Review, 2016, 56, 120-127.	9.2	24
82	Delivering Zero Carbon Buildings: The Role of Innovative Business Models. Procedia Engineering, 2015, 118, 404-411.	1.2	13
83	Challenges for Modeling Energy Use in High-rise Office Buildings in Hong Kong. Procedia Engineering, 2015, 121, 513-520.	1.2	12
84	Diabetes Learning in Virtual Environments. Nursing Research, 2015, 64, 485-493.	1.7	26
85	Forty-Year Trends in Tooth Loss Among American Adults With and Without Diabetes Mellitus: An Age-Period-Cohort Analysis. Preventing Chronic Disease, 2015, 12, E211.	3.4	55
86	Major Barriers to Off-Site Construction: The Developer's Perspective in China. Journal of Management in Engineering - ASCE, 2015, 31, .	4.8	239
87	Defects and Their Influencing Factors of Posthandover New-Build Homes. Journal of Performance of Constructed Facilities, 2015, 29, .	2.0	26
88	Zero carbon homes: Perceptions from the UK construction industry. Energy Policy, 2015, 79, 23-36.	8.8	60
89	A Preliminary Exploration of College Smokers' Reactions to Nicotine Dependence Genetic Susceptibility Feedback. Nicotine and Tobacco Research, 2015, 17, 337-343.	2.6	14
90	The dialectics of sustainable building. Habitat International, 2015, 48, 55-64.	5.8	23

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91	Propensity score interval matching: using bootstrap confidence intervals for accommodating estimation errors of propensity scores. BMC Medical Research Methodology, 2015, 15, 53.	3.1	20
92	Renal Disease Risk Factors Among Risk Groups Comprised of African American Women With Type 2 Diabetes. The Diabetes Educator, 2015, 41, 569-581.	2.5	6
93	A BIM-GIS Integrated Web-based Visualization System for Low Energy Building Design. Procedia Engineering, 2015, 121, 2184-2192.	1.2	53
94	A socio-technical framework of zero-carbon building policies. Building Research and Information, 2015, 43, 94-110.	3.9	47
95	A methodological review of statistical methods for handling multilevel non-nested longitudinal data in educational research. International Journal of Research and Method in Education, 2014, 37, 285-308.	1.9	6
96	Fatigue and recovery in 12-hour dayshift hospital nurses. Journal of Nursing Management, 2014, 22, 593-603.	3.4	82
97	Informing Energy-efficient Building Envelope Design Decisions for Hong Kong. Energy Procedia, 2014, 62, 123-131.	1.8	16
98	Sources of work‐related acute fatigue in United States hospital nurses. Australian Journal of Cancer Nursing, 2014, 16, 19-25.	1.6	28
99	Dialectics of sustainable building: Evidence from empirical studies 1987–2013. Building and Environment, 2014, 82, 666-674.	6.9	27
100	Linking research and teaching: context, conflict and complementarity. Innovations in Education and Teaching International, 2014, 51, 3-14.	2.5	30
101	The relationship between the quality of active frontages and public perceptions of public spaces. Urban Design International, 2014, 19, 92-102.	2.8	39
102	Aptitude-treatment interaction effects on explicit rule learning: A latent growth curve analysis. Language Teaching Research, 2014, 18, 294-319.	4.0	43
103	System boundaries of zero carbon buildings. Renewable and Sustainable Energy Reviews, 2014, 37, 424-434.	16.4	98
104	A decade's debate on the nexus between corporate social and corporate financial performance: a critical review of empirical studies 2002–2011. Journal of Cleaner Production, 2014, 79, 195-206.	9.3	198
105	A multi-criteria decision framework for the selection of low carbon building measures for office buildings in Hong Kong. International Journal of Energy Sector Management, 2014, 8, 456-476.	2.3	15
106	Investigating the Accuracy of Three Estimation Methods for Regression Discontinuity Design. Journal of Experimental Education, 2013, 81, 1-21.	2.6	8
107	Research-informed teaching from a risk perspective. Teaching in Higher Education, 2013, 18, 570-585.	2.6	19
108	Non-Compliance with Building Energy Regulations: The Profile, Issues, and Implications on Practice and Policy in England and Wales. Journal of Sustainable Development of Energy, Water and Environment Systems, 2013, 1, 340-351.	1.9	4

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109	House-Building Business Models and Off-Site Construction Take-Up. Journal of Architectural Engineering, 2012, 18, 84-93.	1.6	92
110	Briefing: Future trends in UK housebuilding. Proceedings of the Institution of Civil Engineers: Municipal Engineer, 2012, 165, 65-67.	0.7	6
111	Recalculation of the Critical Values for Lawshe's Content Validity Ratio. Measurement and Evaluation in Counseling and Development, 2012, 45, 197-210.	2.3	369
112	Compliance with building energy regulations for new-build dwellings. Energy, 2012, 48, 11-22.	8.8	78
113	Establishing and Weighting Decision Criteria for Building System Selection in Housing Construction. Journal of Construction Engineering and Management - ASCE, 2012, 138, 1239-1250.	3.8	117
114	Strategies for Integrating the Use of Off-Site Production Technologies in House Building. Journal of Construction Engineering and Management - ASCE, 2012, 138, 1331-1340.	3.8	182
115	Recasts in the L2 classroom: A meta-analytic review. International Journal of Educational Research, 2012, 56, 48-59.	2.2	28
116	Assessing the effectiveness of a 3â€Ð instructional game on improving mathematics achievement and motivation of middle school students. British Journal of Educational Technology, 2012, 43, 993-1003.	6.3	79
117	Building regulations in energy efficiency: Compliance in England and Wales. Energy Policy, 2012, 45, 594-605.	8.8	46
118	Demystifying the cost barriers to offsite construction in the UK. Construction Management and Economics, 2011, 29, 1081-1099.	3.0	123
119	Decision criteria for selecting air source heat pump technology in UK low carbon housing. Technology Analysis and Strategic Management, 2011, 23, 623-637.	3.5	9
120	Physiological and behavioural response patterns at work among hospital nurses. Journal of Nursing Management, 2011, 19, 57-68.	3.4	46
121	The Philosophical Foundations of Prescriptive Statements and Statistical Inference. Educational Psychology Review, 2011, 23, 207-220.	8.4	3
122	Rethinking Observed Power. Methodology, 2011, 7, 81-87.	1.1	22
123	Strategies for managing innovation in UK housebuilding. Engineering, Construction and Architectural Management, 2010, 17, 78-88.	3.1	10
124	A comprehensive review of effect size reporting and interpreting practices in academic journals in education and psychology.. Journal of Educational Psychology, 2010, 102, 989-1004.	2.9	243
125	School-Based Health Centers: Costâ€"Benefit Analysis and Impact on Health Care Disparities. American Journal of Public Health, 2010, 100, 1617-1623.	2.7	59
126	Relationships between air-tightness and its influencing factors of post-2006 new-build dwellings in the UK. Building and Environment, 2010, 45, 2387-2399.	6.9	98

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127	Selfâ€management practices of Chinese Americans with type 2 diabetes. Australian Journal of Cancer Nursing, 2010, 12, 228-234.	1.6	52
128	A Multivariate Approach to a Meta-Analytic Review of the Effectiveness of the D.A.R.E. Program. International Journal of Environmental Research and Public Health, 2009, 6, 267-277.	2.6	53
129	Maintenance performance evaluation of offsite and <i>in situ</i> bathrooms. Construction Innovation, 2009, 9, 7-21.	2.7	16
130	The Effect of Tailored E-mails in the Workplace. AAOHN Journal, 2009, 57, 267-273.	0.5	14
131	The Effect of Tailored E-Mails in the Workplace. AAOHN Journal, 2009, 57, 313-319.	0.5	9
132	Negative affect and anger rumination as mediators between forgiveness and sleep quality. Journal of Behavioral Medicine, 2008, 31, 478-488.	2.1	53
133	Factors influencing diabetes selfâ€management in Chinese people with type 2 diabetes. Research in Nursing and Health, 2008, 31, 613-625.	1.6	104
134	Adaptation and Testing of Instruments to Measure Diabetes Self-Management in People With Type 2 Diabetes in Mainland China. Journal of Transcultural Nursing, 2008, 19, 234-242.	1.3	41
135	Resampling methods revisited: advancing the understanding and applications in educational research. International Journal of Research and Method in Education, 2008, 31, 45-62.	1.9	11
136	Maintenance cost implications of utilizing bathroom modules manufactured offsite. Construction Management and Economics, 2008, 26, 1067-1077.	3.0	14
137	Leading UK housebuilders' utilization of offsite construction methods. Building Research and Information, 2008, 36, 56-67.	3.9	158
138	Perspectives of UK housebuilders on the use of offsite modern methods of construction. Construction Management and Economics, 2007, 25, 183-194.	3.0	260
139	Proactive telephone counseling as an adjunct to minimal intervention for smoking cessation: a meta-analysis. Health Education Research, 2006, 21, 416-427.	1.9	31
140	Can group interventions facilitate forgiveness of an ex-spouse? A randomized clinical trial.. Journal of Consulting and Clinical Psychology, 2005, 73, 880-892.	2.0	124
141	Family Protection and Prevention of Alcohol Use Among Hispanic Youth at High Risk. American Journal of Community Psychology, 2005, 36, 195-205.	2.5	55
142	An approximation to the distribution of the product of two dependent correlation coefficients. Journal of Statistical Computation and Simulation, 2004, 74, 419-443.	1.2	8
143	An examination of the process of relapse prevention therapy designed to aid smoking cessation. Addictive Behaviors, 2003, 28, 1351-1358.	3.0	25