

Jiayu Chen

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.

98
papers

1,722
citations

26
h-index

38
g-index

109
ext. papers

2,278
ext. citations

6.2
avg. IF

5.67
L-index

#	Paper	IF	Citations
98	Spatio-temporal heterogeneity analysis of energy use in residential buildings. <i>Journal of Cleaner Production</i> , 2022 , 352, 131422	10.3	2
97	A data-driven framework for abnormally high building energy demand detection with weather and block morphology at community scale. <i>Journal of Cleaner Production</i> , 2022 , 354, 131602	10.3	2
96	Planning control over rural land transformation in Hong Kong: A remote sensing analysis of spatio-temporal land use change patterns. <i>Land Use Policy</i> , 2022 , 119, 106159	5.6	2
95	Short-term building occupancy prediction based on deep forest with multi-order transition probability. <i>Energy and Buildings</i> , 2021 , 255, 111684	7	1
94	Preparation and thermal properties of a novel pseudo ionic liquid phase change material for solar water heating system. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 111507	6.4	0
93	Simulating Energy-Saving and Consuming Behaviours in the Design and Manufacturing Process with Adjacent Networks. <i>Communications in Computer and Information Science</i> , 2021 , 441-451	0.3	
92	Tuning urban microclimate: A morpho-patch approach for multi-scale building group energy simulation. <i>Sustainable Cities and Society</i> , 2021 , 103516	10.1	2
91	Study on preparation and thermal performance improvements of composite phase change material for asphalt steel bridge deck. <i>Construction and Building Materials</i> , 2021 , 310, 125255	6.7	0
90	An elastic urban morpho-blocks (EUM) modeling method for urban building morphological analysis and feature clustering. <i>Building and Environment</i> , 2021 , 192, 107646	6.5	6
89	Monitoring distraction of construction workers caused by noise using a wearable Electroencephalography (EEG) device. <i>Automation in Construction</i> , 2021 , 125, 103598	9.6	7
88	Collaboration strategy selection in BIM-enabled construction projects: a perspective through typical collaboration profiles. <i>Engineering, Construction and Architectural Management</i> , 2021 , ahead-of-print,	3.1	2
87	Understanding innovation diffusion and adoption strategies in megaproject networks through a fuzzy system dynamic model. <i>Frontiers of Engineering Management</i> , 2021 , 8, 32-47	2.7	6
86	Simulating Urban Building Energy Dynamic with Inter-Building-Effects (Ibes) Linked Building Networks 2021 , 1647-1654		
85	Unveiling complex relational behavior in megaprojects: A qualitative-quantitative network approach. <i>International Journal of Project Management</i> , 2021 , 39, 738-749	7.6	2
84	Super absorbent polymer as support for shape-stabilized composite phase change material containing Na ₂ HPO ₄ ·2H ₂ O/2HPO ₄ ·BH ₂ O eutectic hydrated salt. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 231, 111334	6.4	1
83	Urban micro-climate prediction through long short-term memory network with long-term monitoring for on-site building energy estimation. <i>Sustainable Cities and Society</i> , 2021 , 74, 103227	10.1	2
82	Urban building energy prediction at neighborhood scale. <i>Energy and Buildings</i> , 2021 , 251, 111307	7	4

81	Cost performance optimization of waste heat recovery supply chain by mobile heat storage vehicles. <i>Energy Reports</i> , 2020 , 6, 137-146	4.6	3
80	Modeling urban energy dynamics under clustered urban heat island effect with local-weather extended distributed adjacency blocks. <i>Sustainable Cities and Society</i> , 2020 , 56, 102099	10.1	9
79	Simulating human-machine coupled model for gait trajectory optimization of the lower limb exoskeleton system based on genetic algorithm. <i>International Journal of Advanced Robotic Systems</i> , 2020 , 17, 172988141989349	1.4	2
78	Trajectory-Tracking-Based Adaptive Neural Network Sliding Mode Controller for Robot Manipulators. <i>Journal of Computing and Information Science in Engineering</i> , 2020 , 20,	2.4	3
77	Optimal Design of Energy Storage System to Buffer Charging Infrastructure in Smart Cities. <i>Journal of Management in Engineering - ASCE</i> , 2020 , 36, 04019048	5.3	10
76	Heuristic optimization for grid-interactive net-zero energy building design through the glowworm swarm algorithm. <i>Energy and Buildings</i> , 2020 , 208, 109644	7	13
75	Development and thermal properties of a novel sodium acetate trihydrate-Acetamide-micron/nano aluminum nitride composite phase change material. <i>Materials and Design</i> , 2020 , 196, 109113	8.1	8
74	Investigating the economic returns of mobile heat storage devices in the multi-stage closed-loop supply chain. <i>Energy Reports</i> , 2020 , 6, 181-189	4.6	2
73	An oligarchy game model for the mobile waste heat recovery energy supply chain. <i>Energy</i> , 2020 , 210, 118548	7.9	4
72	A novel model based on multi-grained cascade forests with wavelet denoising for indoor occupancy estimation. <i>Building and Environment</i> , 2020 , 167, 106461	6.5	17
71	Study on properties of phase change foam concrete block mixed with paraffin / fumed silica composite phase change material. <i>Renewable Energy</i> , 2020 , 150, 1127-1135	8.1	27
70	Preparation and thermal properties of low melting point alloy/expanded graphite composite phase change materials used in solar water storage system. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 201, 110112	6.4	9
69	Investigating the hydrogen storage capacity of surfactant modified graphene. <i>Energy Procedia</i> , 2019 , 158, 2112-2117	2.3	1
68	Experimental study on preparation of a novel foamed cement with paraffin/ expanded graphite composite phase change thermal energy storage material. <i>Energy Procedia</i> , 2019 , 158, 4799-4804	2.3	4
67	Investigation on correlation of energy consumption of multi-buildings on campus area. <i>Energy Procedia</i> , 2019 , 158, 3559-3564	2.3	2
66	On the kinematic design of anthropomorphic lower limb exoskeletons and their matching movement. <i>International Journal of Advanced Robotic Systems</i> , 2019 , 16, 172988141987590	1.4	2
65	Public transportation and the spatial inequality of urban park accessibility: New evidence from Hong Kong. <i>Transportation Research, Part D: Transport and Environment</i> , 2019 , 76, 111-122	6.4	18
64	Modeling city-scale building energy dynamics through inter-connected distributed adjacency blocks. <i>Energy and Buildings</i> , 2019 , 202, 109391	7	6

63	Incorporating machine learning with building network analysis to predict multi-building energy use. <i>Energy and Buildings</i> , 2019 , 186, 80-97	7	31
62	Single Leg Gait Tracking of Lower Limb Exoskeleton Based on Adaptive Iterative Learning Control. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2251	2.6	5
61	Rethinking bus-to-metro accessibility in new town development: Case studies in Shanghai. <i>Cities</i> , 2019 , 94, 211-224	5.6	18
60	Pre-service fatigue screening for construction workers through wearable EEG-based signal spectral analysis. <i>Automation in Construction</i> , 2019 , 106, 102851	9.6	27
59	Ontology-Based Representations of User Activity and Flexible Space Information: Towards an Automated Space-Use Analysis in Buildings. <i>Advances in Civil Engineering</i> , 2019 , 2019, 1-15	1.3	4
58	Framework for Benchmarking green building movement: A case of Brazil. <i>Sustainable Cities and Society</i> , 2019 , 48, 101545	10.1	4
57	Forecasting district-scale energy dynamics through integrating building network and long short-term memory learning algorithm. <i>Applied Energy</i> , 2019 , 248, 217-230	10.7	28
56	Hydrophobicity of Polyacrylate Emulsion Film Enhanced by Introduction of Nano-SiO ₂ and Fluorine. <i>Polymers</i> , 2019 , 11,	4.5	4
55	Collecting building occupancy data of high resolution based on WiFi and BLE network. <i>Automation in Construction</i> , 2019 , 102, 183-194	9.6	20
54	Cross-source sensing data fusion for building occupancy prediction with adaptive lasso feature filtering. <i>Building and Environment</i> , 2019 , 162, 106280	6.5	14
53	A foamed cement blocks with paraffin/expanded graphite composite phase change solar thermal absorption material. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 110038	6.4	32
52	Parallel computational building-chain model for rapid urban-scale energy simulation. <i>Energy and Buildings</i> , 2019 , 201, 37-52	7	10
51	Optimal operation strategy of green supply chain based on waste heat recovery quality. <i>Energy</i> , 2019 , 183, 599-605	7.9	10
50	UNDERSTANDING THE EFFECT OF CO-WORKER SUPPORT ON CONSTRUCTION SAFETY PERFORMANCE FROM THE PERSPECTIVE OF RISK THEORY: AN AGENT-BASED MODELING APPROACH. <i>Journal of Civil Engineering and Management</i> , 2019 , 25, 132-144	3	4
49	A Novel Robust Finite-Time Trajectory Control With the High-Order Sliding Mode for HumanRobot Cooperation. <i>IEEE Access</i> , 2019 , 7, 130874-130882	3.5	6
48	Detecting and measuring construction workers' vigilance through hybrid kinematic-EEG signals. <i>Automation in Construction</i> , 2019 , 100, 11-23	9.6	26
47	Piezoelectric materials for sustainable building structures: Fundamentals and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 101, 14-25	16.2	63
46	Accessibility Inequality in Houston 2019 , 3, 1-4		8

45	Linking energy-cyber-physical systems with occupancy prediction and interpretation through WiFi probe-based ensemble classification. <i>Applied Energy</i> , 2019 , 236, 55-69	10.7	65
44	Modeling occupancy distribution in large spaces with multi-feature classification algorithm. <i>Building and Environment</i> , 2018 , 137, 108-117	6.5	26
43	Measuring the cognitive loads of construction safety sign designs during selective and sustained attention. <i>Safety Science</i> , 2018 , 105, 9-21	5.8	24
42	Multi-zone outdoor air coordination through Wi-Fi probe-based occupancy sensing. <i>Energy and Buildings</i> , 2018 , 159, 495-507	7	32
41	A review of occupant energy feedback research: Opportunities for methodological fusion at the intersection of experimentation, analytics, surveys and simulation. <i>Applied Energy</i> , 2018 , 218, 304-316	10.7	27
40	Estimation of soil and grout thermal properties for ground-coupled heat pump systems: Development and application. <i>Applied Thermal Engineering</i> , 2018 , 143, 112-122	5.8	14
39	Occupancy prediction through machine learning and data fusion of environmental sensing and Wi-Fi sensing in buildings. <i>Automation in Construction</i> , 2018 , 94, 233-243	9.6	51
38	Developing Construction Workers' Mental Vigilance Indicators through Wavelet Packet Decomposition on EEG Signals 2018 ,		4
37	Modeling occupancy distribution in large building spaces for HVAC energy efficiency. <i>Energy Procedia</i> , 2018 , 152, 1230-1235	2.3	3
36	Preparation and Hydrogen Storage Characteristics of Surfactant-Modified Graphene. <i>Polymers</i> , 2018 , 10,	4.5	3
35	Development of An Innovation Diffusion Model for Renewable Energy Deployment. <i>Energy Procedia</i> , 2018 , 152, 959-964	2.3	6
34	Self-Assembly Synthesis of Silver Nanowires/Graphene Nanocomposite and Its Effects on the Performance of Electrically Conductive Adhesive. <i>Materials</i> , 2018 , 11,	3.5	7
33	Improving thermal management of electronic apparatus with paraffin (PA)/expanded graphite (EG)/graphene (GN) composite material. <i>Applied Thermal Engineering</i> , 2018 , 140, 13-22	5.8	39
32	Linking building energy consumption with occupants' energy-consuming behaviors in commercial buildings: Non-intrusive occupant load monitoring (NIOLM). <i>Energy and Buildings</i> , 2018 , 172, 317-327	7	27
31	Occupancy prediction through Markov based feedback recurrent neural network (M-FRNN) algorithm with WiFi probe technology. <i>Building and Environment</i> , 2018 , 138, 160-170	6.5	58
30	Construction worker's awkward posture recognition through supervised motion tensor decomposition. <i>Automation in Construction</i> , 2017 , 77, 67-81	9.6	91
29	HVAC Energy Saving in IPS-enabled Large Space: An Occupancy Distribution Based Demand-driven Control Approach. <i>Energy Procedia</i> , 2017 , 105, 2083-2088	2.3	2
28	Monitoring workers' attention and vigilance in construction activities through a wireless and wearable electroencephalography system. <i>Automation in Construction</i> , 2017 , 82, 122-137	9.6	66

27	A new multiplexed optimization with enhanced performance for complex air conditioning systems. <i>Energy and Buildings</i> , 2017 , 156, 85-95	7	7
26	A behavior-based decision-making model for energy performance contracting in building retrofit. <i>Energy and Buildings</i> , 2017 , 156, 315-326	7	18
25	Analysis of Delay Interval and Energy-Load Variation for Non-Intrusively Extracting Occupant Energy-Use Information in Commercial Buildings 2017 ,		1
24	Modeling energy consumption in residential buildings: A bottom-up analysis based on occupant behavior pattern clustering and stochastic simulation. <i>Energy and Buildings</i> , 2017 , 147, 47-66	7	94
23	Energy conservation through flexible HVAC management in large spaces: An IPS-based demand-driven control (IDC) system. <i>Automation in Construction</i> , 2017 , 83, 91-107	9.6	18
22	Preparation and thermal energy storage properties of LiNO ₃ -KCl-NaNO ₃ /expanded graphite composite phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 169, 215-221	6.4	42
21	Energy efficient HVAC control for an IPS-enabled large space in commercial buildings through dynamic spatial occupancy distribution. <i>Applied Energy</i> , 2017 , 207, 305-323	10.7	39
20	Promoting Energy Efficiency of HVAC Operation in Large Office Spaces with a Wi-Fi Probe enabled Markov Time Window Occupancy Detection Approach. <i>Energy Procedia</i> , 2017 , 143, 204-209	2.3	3
19	An IPS-calibrated Outdoor Air Flow Control Strategy in Multizone Commercial Space. <i>Energy Procedia</i> , 2017 , 142, 1842-1847	2.3	
18	A design approach based on a correlative relationship between maintainability and functional construction. <i>Eksploracja I Niezawodnosc</i> , 2017 , 20, 115-124	3.5	3
17	Modeling and predicting occupancy profile in office space with a Wi-Fi probe-based Dynamic Markov Time-Window Inference approach. <i>Building and Environment</i> , 2017 , 124, 130-142	6.5	50
16	Assessing Task Mental Workload in Construction Projects: A Novel Electroencephalography Approach. <i>Journal of Construction Engineering and Management - ASCE</i> , 2017 , 143, 04017053	4.2	22
15	A GA-based system sizing method for net-zero energy buildings considering multi-criteria performance requirements under parameter uncertainties. <i>Energy and Buildings</i> , 2016 , 129, 524-534	7	36
14	Revealing the 'Invisible Gorilla' in construction: Estimating construction safety through mental workload assessment. <i>Automation in Construction</i> , 2016 , 63, 173-183	9.6	87
13	Rethinking urban green space accessibility: Evaluating and optimizing public transportation system through social network analysis in megacities. <i>Landscape and Urban Planning</i> , 2015 , 143, 150-159	7.7	38
12	A Hybrid Control Mechanism for Stabilizing a Crane Load under Environmental Wind on a Construction Site 2015 ,		1
11	Revealing the 'Invisible Gorilla' in Construction: Assessing Mental Workload through Time-Frequency Analysis 2015 ,		6
10	Assessing occupants' energy load variation through existing wireless network infrastructure in commercial and educational buildings. <i>Energy and Buildings</i> , 2014 , 82, 540-549	7	52

9	Parametric bifurcation of a viscoelastic column subject to axial harmonic force and time-delayed control. <i>Computers and Structures</i> , 2014 , 136, 47-55	4.5	12
8	Detecting the Hazards of Lifting and Carrying in Construction through a Coupled 3D Sensing and IMUs Sensing System 2014 ,		12
7	Modeling Retention Loss in Project Networks: Untangling the Combined Effect of Skill Decay and Turnover on Learning. <i>Journal of Management in Engineering - ASCE</i> , 2014 , 30, 04014017	5.3	1
6	Layering residential peer networks and geospatial building networks to model change in energy saving behaviors. <i>Energy and Buildings</i> , 2013 , 58, 151-162	7	6
5	Block Configuration Modeling: A novel simulation model to emulate building occupant peer networks and their impact on building energy consumption. <i>Applied Energy</i> , 2013 , 105, 358-368	10.7	28
4	Modeling building occupant network energy consumption decision-making: The interplay between network structure and conservation. <i>Energy and Buildings</i> , 2012 , 47, 515-524	7	99
3	2011 ,		2
2	Simulating the effect of learning decay on adaptation performance in project networks 2009 ,		1
1	A Novel Nonlinear Disturbance Observer embedded Second-Order Finite Time Tracking-based Controller for Robotic Manipulators. <i>Journal of Computing and Information Science in Engineering</i> , 1-27	2.4	2