

Jiayu Chen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2105648/jiayu-chen-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
97	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
96	Construction worker's awkward posture recognition through supervised motion tensor decomposition. <i>Automation in Construction</i> , 2017 , 77, 67-81	9.6	91
95	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
94	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
93	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
92	Piezoelectric materials for sustainable building structures: Fundamentals and applications. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 101, 14-25	16.2	63
91	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
90	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
89	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
88	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
87	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
86	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
85	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
84	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
83	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
82	Multi-zone outdoor air coordination through Wi-Fi probe-based occupancy sensing. <i>Energy and Buildings</i> , 2018 , 159, 495-507	7	32

81	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
80	Incorporating machine learning with building network analysis to predict multi-building energy use. <i>Energy and Buildings</i> , 2019 , 186, 80-97	7	31
79	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
78	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
77	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
76	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
75	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
74	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
73	Modeling occupancy distribution in large spaces with multi-feature classification algorithm. <i>Building and Environment</i> , 2018 , 137, 108-117	6.5	26
72	Detecting and measuring construction workers' vigilance through hybrid kinematic-EEG signals. <i>Automation in Construction</i> , 2019 , 100, 11-23	9.6	26
71	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
70	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
69	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
68	A behavior-based decision-making model for energy performance contracting in building retrofit. <i>Energy and Buildings</i> , 2017 , 156, 315-326	7	18
67	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
66	Rethinking bus-to-metro accessibility in new town development: Case studies in Shanghai. <i>Cities</i> , 2019 , 94, 211-224	5.6	18
65	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
64	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

63	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
62	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
61	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
60	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
59	Detecting the Hazards of Lifting and Carrying in Construction through a Coupled 3D Sensing and IMUs Sensing System 2014 ,		12
58	Parallel computational building-chain model for rapid urban-scale energy simulation. <i>Energy and Buildings</i> , 2019 , 201, 37-52	7	10
57	Optimal operation strategy of green supply chain based on waste heat recovery quality. <i>Energy</i> , 2019 , 183, 599-605	7.9	10
56	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
55	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
54	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
53	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
52	Accessibility Inequality in Houston 2019 , 3, 1-4		8
51	A new multiplexed optimization with enhanced performance for complex air conditioning systems. <i>Energy and Buildings</i> , 2017 , 156, 85-95	7	7
50	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
49	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
48	Modeling city-scale building energy dynamics through inter-connected distributed adjacency blocks. <i>Energy and Buildings</i> , 2019 , 202, 109391	7	6
47	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
46	Revealing the 'Invisible Gorilla' in Construction: Assessing Mental Workload through Time-Frequency Analysis 2015 ,		6

45	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
44	A Novel Robust Finite-Time Trajectory Control With the High-Order Sliding Mode for Human-Robot Cooperation. <i>IEEE Access</i> , 2019 , 7, 130874-130882	3.5	6
43	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
42	Development of An Innovation Diffusion Model for Renewable Energy Deployment. <i>Energy Procedia</i> , 2018 , 152, 959-964	2.3	6
41	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
40	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
39	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
38	Framework for Benchmarking green building movement: A case of Brazil. <i>Sustainable Cities and Society</i> , 2019 , 48, 101545	10.1	4
37	Hydrophobicity of Polyacrylate Emulsion Film Enhanced by Introduction of Nano-SiO ₂ and Fluorine. <i>Polymers</i> , 2019 , 11,	4.5	4
36	Developing Construction Workers' Mental Vigilance Indicators through Wavelet Packet Decomposition on EEG Signals 2018 ,		4
35	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
34	An oligarchy game model for the mobile waste heat recovery energy supply chain. <i>Energy</i> , 2020 , 210, 118548	7.9	4
33	Urban building energy prediction at neighborhood scale. <i>Energy and Buildings</i> , 2021 , 251, 111307	7	4
32	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
31	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
30	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
29	A design approach based on a correlative relationship between maintainability and functional construction. <i>Eksploatacja I Niezawodnosc</i> , 2017 , 20, 115-124	3.5	3
28	Modeling occupancy distribution in large building spaces for HVAC energy efficiency. <i>Energy Procedia</i> , 2018 , 152, 1230-1235	2.3	3

27	Preparation and Hydrogen Storage Characteristics of Surfactant-Modified Graphene. <i>Polymers</i> , 2018 , 10,	4.5	3
26	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
25	Investigation on correlation of energy consumption of multi-buildings on campus area. <i>Energy Procedia</i> , 2019 , 158, 3559-3564	2.3	2
24	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
23	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
22	2011 ,		2
21	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
20	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
19	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
18	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
17	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
16	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
15	Spatio-temporal heterogeneity analysis of energy use in residential buildings. <i>Journal of Cleaner Production</i> , 2022 , 352, 131422	10.3	2
14	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
13	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
12	Analysis of Delay Interval and Energy-Load Variation for Non-Intrusively Extracting Occupant Energy-Use Information in Commercial Buildings 2017 ,		1
11	Investigating the hydrogen storage capacity of surfactant modified graphene. <i>Energy Procedia</i> , 2019 , 158, 2112-2117	2.3	1
10	A Hybrid Control Mechanism for Stabilizing a Crane Load under Environmental Wind on a Construction Site 2015 ,		1

9	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
8	Simulating the effect of learning decay on adaptation performance in project networks 2009 ,		1
7	Short-term building occupancy prediction based on deep forest with multi-order transition probability. <i>Energy and Buildings</i> , 2021 , 255, 111684	7	1
6	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
5	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
4	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
3	An IPS-calibrated Outdoor Air Flow Control Strategy in Multizone Commercial Space. <i>Energy Procedia</i> , 2017 , 142, 1842-1847	2.3	
2	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	
1	Simulating Urban Building Energy Dynamic with Inter-Building-Effects (Ibes) Linked Building Networks 2021 , 1647-1654		