

Shen Wei

List of Publications by Year in descending order

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84
papers

2,259
citations

218662

26
h-index

254170

43
g-index

85
all docs

85
docs citations

85
times ranked

1638
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving factors for occupant-controlled space heating in residential buildings. <i>Energy and Buildings</i> , 2014, 70, 36-44.	6.7	150
2	Thermal performance of an active-passive ventilation wall with phase change material in solar greenhouses. <i>Applied Energy</i> , 2018, 216, 602-612.	10.1	91
3	A review on applications of shape-stabilized phase change materials embedded in building enclosure in recent ten years. <i>Sustainable Cities and Society</i> , 2018, 43, 251-264.	10.4	87
4	A study on influential factors of occupant window-opening behavior in an office building in China. <i>Building and Environment</i> , 2018, 133, 41-50.	6.9	84
5	Effects of indoor humidity on building occupants' thermal comfort and evidence in terms of climate adaptation. <i>Building and Environment</i> , 2019, 155, 298-307.	6.9	84
6	Identifying informative energy data in Bayesian calibration of building energy models. <i>Energy and Buildings</i> , 2016, 119, 363-376.	6.7	82
7	Developing window behavior models for residential buildings using XGBoost algorithm. <i>Energy and Buildings</i> , 2019, 205, 109564.	6.7	80
8	A computational model to determine the optimal orientation for solar greenhouses located at different latitudes in China. <i>Solar Energy</i> , 2018, 165, 19-26.	6.1	74
9	Effect of phase change materials on indoor thermal environment under different weather conditions and over a long time. <i>Applied Energy</i> , 2015, 140, 329-337.	10.1	70
10	A model based on Gauss Distribution for predicting window behavior in building. <i>Building and Environment</i> , 2019, 149, 210-219.	6.9	60
11	A review on available energy saving strategies for heating, ventilation and air conditioning in underground metro stations. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 141, 110788.	16.4	51
12	Ventilation behavior in residential buildings with mechanical ventilation systems across different climate zones in China. <i>Building and Environment</i> , 2018, 143, 679-690.	6.9	50
13	Active heat storage characteristics of active-passive triple wall with phase change material. <i>Solar Energy</i> , 2014, 110, 276-285.	6.1	44
14	Mathematical modeling and performance analysis of a solar air collector with slit-perforated corrugated plate. <i>Solar Energy</i> , 2018, 167, 147-157.	6.1	44
15	Utilization of mineral wool waste and waste glass for synthesis of foam glass at low temperature. <i>Construction and Building Materials</i> , 2019, 215, 623-632.	7.2	44
16	A Review on Recent Development of Cooling Technologies for Photovoltaic Modules. <i>Journal of Thermal Science</i> , 2020, 29, 1410-1430.	1.9	44
17	Indicators evaluating thermal inertia performance of envelopes with phase change material. <i>Energy and Buildings</i> , 2016, 122, 175-184.	6.7	42
18	Flexible management of heat/electricity of novel PV/T systems with spectrum regulation by Ag nanofluids. <i>Energy</i> , 2021, 221, 119903.	8.8	41

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19	Individual thermal comfort prediction using classification tree model based on physiological parameters and thermal history in winter. <i>Building Simulation</i> , 2021, 14, 1651-1665.	5.6	38
20	Orientation effect on thermal and energy performance of vertical greenery systems. <i>Energy and Buildings</i> , 2018, 175, 102-112.	6.7	37
21	Effectiveness of Using Phase Change Materials on Reducing Summer Overheating Issues in UK Residential Buildings with Identification of Influential Factors. <i>Energies</i> , 2016, 9, 605.	3.1	33
22	A prediction model coupling occupant lighting and shading behaviors in private offices. <i>Energy and Buildings</i> , 2020, 216, 109939.	6.7	33
23	Factors affecting "end-of-day" window position in a non-air-conditioned office building. <i>Energy and Buildings</i> , 2013, 62, 87-96.	6.7	32
24	Investigating the performance of a novel solar lighting/heating system using spectrum-sensitive nanofluids. <i>Applied Energy</i> , 2020, 270, 115208.	10.1	32
25	Mathematical modeling and performance analysis of an integrated solar heating and cooling system driven by parabolic trough collector and double-effect absorption chiller. <i>Energy and Buildings</i> , 2019, 202, 109400.	6.7	31
26	A systematic method to develop three dimensional geometry models of buildings for urban building energy modeling. <i>Sustainable Cities and Society</i> , 2021, 71, 102998.	10.4	28
27	Numerical and experimental study of laboratory and full-scale prototypes of the novel solar multi-surface air collector with double-receiver tubes integrated into a greenhouse heating system. <i>Solar Energy</i> , 2020, 202, 86-103.	6.1	27
28	Energy Waste in Buildings Due to Occupant Behaviour. <i>Energy Procedia</i> , 2017, 105, 2233-2238.	1.8	26
29	An occupancy prediction model for campus buildings based on the diversity of occupancy patterns. <i>Sustainable Cities and Society</i> , 2021, 64, 102533.	10.4	26
30	An investigation on the attenuation effect of air pollution on regional solar radiation. <i>Renewable Energy</i> , 2020, 161, 570-578.	8.9	25
31	A numerical investigation on optimization of PV/T systems with the field synergy theory. <i>Applied Thermal Engineering</i> , 2021, 185, 116381.	6.0	25
32	Blended Ag nanofluids with optimized optical properties to regulate the performance of PV/T systems. <i>Solar Energy</i> , 2020, 208, 623-636.	6.1	24
33	Effect of plant traits and substrate moisture on the thermal performance of different plant species in vertical greenery systems. <i>Building and Environment</i> , 2020, 175, 106815.	6.9	24
34	A review of optimization approaches for controlling water-cooled central cooling systems. <i>Building and Environment</i> , 2021, 203, 108100.	6.9	24
35	Using Phase Change Materials to Reduce Overheating Issues in UK Residential Buildings. <i>Energy Procedia</i> , 2017, 105, 4072-4077.	1.8	23
36	Optimal operation of novel hybrid district heating system driven by central and distributed variable speed pumps. <i>Energy Conversion and Management</i> , 2019, 196, 211-226.	9.2	23

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37	Thermo-economic analysis of composite district heating substation with absorption heat pump. <i>Applied Thermal Engineering</i> , 2020, 166, 114659.	6.0	23
38	Operation stability analysis of district heating substation from the control perspective. <i>Energy and Buildings</i> , 2017, 154, 373-390.	6.7	22
39	Large-scale and long-term monitoring of the thermal environments and adaptive behaviors in Chinese urban residential buildings. <i>Building and Environment</i> , 2020, 168, 106524.	6.9	22
40	An energy planning oriented method for analyzing spatial-temporal characteristics of electric loads for heating/cooling in district buildings with a case study of one university campus. <i>Sustainable Cities and Society</i> , 2019, 51, 101629.	10.4	20
41	Modeling method of an active-passive ventilation wall with latent heat storage for evaluating its thermal properties in the solar greenhouse. <i>Energy and Buildings</i> , 2021, 238, 110840.	6.7	20
42	An exploration on the applicability of heating tower heat pump and air source heat pump systems in different climatic regions. <i>Journal of Cleaner Production</i> , 2019, 238, 117889.	9.3	19
43	Effect of implementing building energy efficiency labeling in China: A case study in Shanghai. <i>Energy Policy</i> , 2019, 133, 110898.	8.8	18
44	Integration of geothermal water into secondary network by absorption-heat-pump-assisted district heating substations. <i>Energy and Buildings</i> , 2019, 202, 109403.	6.7	17
45	Thermo-hydraulic coupled analysis of meshed district heating networks based on improved breadth first search method. <i>Energy</i> , 2020, 205, 117950.	8.8	17
46	A comparative study on the performance of a novel triangular solar air collector with tilted transparent cover plate. <i>Solar Energy</i> , 2021, 227, 224-235.	6.1	17
47	A Case Study on Household Electricity Uses and Their Variations Due to Occupant Behavior in Chinese Apartments in Beijing. <i>Journal of Asian Architecture and Building Engineering</i> , 2015, 14, 679-686.	2.0	16
48	Impact of the external window crack structure on indoor PM2.5 mass concentration. <i>Building and Environment</i> , 2016, 108, 240-251.	6.9	16
49	Impact of occupant behaviour on the energy-saving potential of retrofit measures for a public building in the UK. <i>Intelligent Buildings International</i> , 2017, 9, 97-106.	2.3	16
50	Performance analysis and optimization for a novel air-source gas-fired absorption heat pump. <i>Energy Conversion and Management</i> , 2020, 223, 113423.	9.2	14
51	A 3D spatiotemporal morphological database for urban green infrastructure and its applications. <i>Urban Forestry and Urban Greening</i> , 2021, 58, 126935.	5.3	14
52	Experimental investigations and multi-objective optimization of an air-source absorption heat pump for residential district heating. <i>Energy Conversion and Management</i> , 2021, 240, 114267.	9.2	14
53	Natural ventilation performance of solar chimney with and without earth-air heat exchanger during transition seasons. <i>Energy</i> , 2022, 250, 123818.	8.8	13
54	Experimental and numerical study on the heat transfer performance of the radiant floor heating condenser with composite phase change material. <i>Applied Thermal Engineering</i> , 2022, 213, 118749.	6.0	13

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55	A review of data-driven building performance analysis and design on big on-site building performance data. <i>Journal of Building Engineering</i> , 2021, 41, 102706.	3.4	12
56	Numerical simulation of diurnal and annual performance of coupled solar chimney with earth-to-air heat exchanger system. <i>Applied Thermal Engineering</i> , 2022, 214, 118851.	6.0	12
57	Going Beyond the Mean: Distributional Degree-Day Base Temperatures for Building Energy Analytics Using Change Point Quantile Regression. <i>IEEE Access</i> , 2018, 6, 39532-39540.	4.2	11
58	Experimental investigation of heat and mass transfer in a LiBr-H ₂ O solution falling film absorber on horizontal tubes: Comprehensive effects of tube types and surfactants. <i>Applied Thermal Engineering</i> , 2019, 146, 203-211.	6.0	11
59	A numerical model predicting indoor volatile organic compound Volatile Organic Compounds emissions from multiple building materials. <i>Environmental Science and Pollution Research</i> , 2020, 27, 587-596.	5.3	11
60	Determination of key parameters (air exchange rate, penetration factor and deposition rate) for selecting residential air cleaners under different window airtightness levels. <i>Sustainable Cities and Society</i> , 2020, 56, 102087.	10.4	11
61	Particle removal effectiveness of portable air purifiers in aged-care centers and the impact on the health of older people. <i>Energy and Buildings</i> , 2021, 250, 111250.	6.7	11
62	Energy, exergy, economic and environmental assessment of the triangular solar collector assisted heat pump. <i>Solar Energy</i> , 2022, 236, 280-293.	6.1	11
63	Development and energy evaluation of phase change material composite for building energy saving. <i>International Journal of Energy Research</i> , 2019, 43, 8674.	4.5	10
64	Experimental study and thermo-economic analysis of a novel radiant-convective cooling system. <i>International Journal of Refrigeration</i> , 2021, 131, 505-514.	3.4	10
65	Methodology for developing economically efficient strategies for net zero energy buildings: A case study of a prototype building in the Yangtze River Delta, China. <i>Journal of Cleaner Production</i> , 2021, 320, 128849.	9.3	10
66	An exploration on the performance of using phase change humidity control material wallboards in office buildings. <i>Energy</i> , 2022, 239, 122433.	8.8	10
67	Living with air-conditioning: experiences in Dubai, Chongqing and London. <i>Buildings and Cities</i> , 2022, 3, 10-27.	2.3	9
68	Improper Window Use in Office Buildings: Findings from a Longitudinal Study in Beijing, China. <i>Energy Procedia</i> , 2016, 88, 761-767.	1.8	8
69	Developing data-driven models for energy-efficient heating design in office buildings. <i>Journal of Building Engineering</i> , 2020, 32, 101778.	3.4	8
70	A Comparison of Various Bottom-Up Urban Energy Simulation Methods Using a Case Study in Hangzhou, China. <i>Energies</i> , 2020, 13, 4781.	3.1	8
71	Research on the operation strategies of the solar assisted heat pump with triangular solar air collector. <i>Energy</i> , 2022, 246, 123398.	8.8	8
72	Hydraulic transient modeling and analysis of the district heating network. <i>Sustainable Energy, Grids and Networks</i> , 2021, 25, 100409.	3.9	6

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73	A field investigation of the thermal environment and adaptive thermal behavior in bedrooms in different climate regions in China. <i>Indoor Air</i> , 2021, 31, 887-898.	4.3	6
74	Investigation of natural ventilation performance of large space circular coal storage dome. <i>Building Simulation</i> , 2021, 14, 1077-1093.	5.6	5
75	Experimental and numerical investigation of the performance of bogie chassis heater deicing systems. <i>Energy and Buildings</i> , 2020, 226, 110383.	6.7	3
76	Evaluation of anchor bolt effects on the thermal performance of building insulation materials. <i>Journal of Building Engineering</i> , 2020, 29, 101200.	3.4	3
77	Measuring and modeling moisture environment in underground metro stations during commissioning stage: A case study. <i>Building Services Engineering Research and Technology</i> , 2022, 43, 241-259.	1.8	3
78	Predicting Indoor Temperature Distribution Based on Contribution Ratio of Indoor Climate (CRI) and Mobile Sensors. <i>Buildings</i> , 2021, 11, 458.	3.1	3
79	The Framework of Technical Evaluation Indicators for Constructing Low-Carbon Communities in China. <i>Buildings</i> , 2021, 11, 479.	3.1	3
80	Model development and numerical analysis of a vertical falling film absorption heat pump. <i>Journal of Cleaner Production</i> , 2022, 331, 129967.	9.3	3
81	Exploring the Applicability of Building Energy Performance Certification Systems in Underground Stations in China. <i>Sustainability</i> , 2022, 14, 3612.	3.2	3
82	Climate applicability study of building envelopes containing phase change materials. <i>International Journal of Energy Research</i> , 2019, 43, 7397.	4.5	2
83	Development and energy evaluation of novel integrated envelopes without thermal bridges. <i>Energy and Buildings</i> , 2019, 203, 109409.	6.7	2
84	Risk Assessment and Prevention Strategy of Virus Infection in the Context of University Resumption. <i>Buildings</i> , 2022, 12, 806.	3.1	2