

Shen Wei

List of Publications by Year in descending order

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84
papers

2,259
citations

249298

26
h-index

286692

43
g-index

85
all docs

85
docs citations

85
times ranked

1873
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	0.9	3
2	An exploration on the performance of using phase change humidity control material wallboards in office buildings. <i>Energy</i> , 2022, 239, 122433.	4.5	10
3	Model development and numerical analysis of a vertical falling film absorption heat pump. <i>Journal of Cleaner Production</i> , 2022, 331, 129967.	4.6	3
4	Living with air-conditioning: experiences in Dubai, Chongqing and London. <i>Buildings and Cities</i> , 2022, 3, 10-27.	1.1	9
5	Research on the operation strategies of the solar assisted heat pump with triangular solar air collector. <i>Energy</i> , 2022, 246, 123398.	4.5	8
6	Exploring the Applicability of Building Energy Performance Certification Systems in Underground Stations in China. <i>Sustainability</i> , 2022, 14, 3612.	1.6	3
7	Energy, exergy, economic and environmental assessment of the triangular solar collector assisted heat pump. <i>Solar Energy</i> , 2022, 236, 280-293.	2.9	11
8	Natural ventilation performance of solar chimney with and without earth-air heat exchanger during transition seasons. <i>Energy</i> , 2022, 250, 123818.	4.5	13
9	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.	3.0	13
10	Risk Assessment and Prevention Strategy of Virus Infection in the Context of University Resumption. <i>Buildings</i> , 2022, 12, 806.	1.4	2
11	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.	3.0	12
12	An occupancy prediction model for campus buildings based on the diversity of occupancy patterns. <i>Sustainable Cities and Society</i> , 2021, 64, 102533.	5.1	26
13	Hydraulic transient modeling and analysis of the district heating network. <i>Sustainable Energy, Grids and Networks</i> , 2021, 25, 100409.	2.3	6
14	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.	2.0	6
15	Investigation of natural ventilation performance of large space circular coal storage dome. <i>Building Simulation</i> , 2021, 14, 1077-1093.	3.0	5
16	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.	3.0	38
17	A numerical investigation on optimization of PV/T systems with the field synergy theory. <i>Applied Thermal Engineering</i> , 2021, 185, 116381.	3.0	25
18	A 3D spatiotemporal morphological database for urban green infrastructure and its applications. <i>Urban Forestry and Urban Greening</i> , 2021, 58, 126935.	2.3	14

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19	Flexible management of heat/electricity of novel PV/T systems with spectrum regulation by Ag nanofluids. <i>Energy</i> , 2021, 221, 119903.	4.5	41
20	Modeling method of an activeâ€“passive ventilation wall with latent heat storage for evaluating its thermal properties in the solar greenhouse. <i>Energy and Buildings</i> , 2021, 238, 110840.	3.1	20
21	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.	8.2	51
22	Experimental study and thermo-economic analysis of a novel radiant-convective cooling system. <i>International Journal of Refrigeration</i> , 2021, 131, 505-514.	1.8	10
23	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.	4.4	14
24	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.	5.1	28
25	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.	1.6	12
26	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.	4.6	10
27	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.	2.9	17
28	A review of optimization approaches for controlling water-cooled central cooling systems. <i>Building and Environment</i> , 2021, 203, 108100.	3.0	24
29	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.	3.1	11
30	Predicting Indoor Temperature Distribution Based on Contribution Ratio of Indoor Climate (CRI) and Mobile Sensors. <i>Buildings</i> , 2021, 11, 458.	1.4	3
31	The Framework of Technical Evaluation Indicators for Constructing Low-Carbon Communities in China. <i>Buildings</i> , 2021, 11, 479.	1.4	3
32	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.	2.7	11
33	Thermo-economic analysis of composite district heating substation with absorption heat pump. <i>Applied Thermal Engineering</i> , 2020, 166, 114659.	3.0	23
34	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.	3.0	22
35	Developing data-driven models for energy-efficient heating design in office buildings. <i>Journal of Building Engineering</i> , 2020, 32, 101778.	1.6	8
36	Performance analysis and optimization for a novel air-source gas-fired absorption heat pump. <i>Energy Conversion and Management</i> , 2020, 223, 113423.	4.4	14

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37	Experimental and numerical investigation of the performance of bogie chassis heater deicing systems. <i>Energy and Buildings</i> , 2020, 226, 110383.	3.1	3
38	An investigation on the attenuation effect of air pollution on regional solar radiation. <i>Renewable Energy</i> , 2020, 161, 570-578.	4.3	25
39	A Review on Recent Development of Cooling Technologies for Photovoltaic Modules. <i>Journal of Thermal Science</i> , 2020, 29, 1410-1430.	0.9	44
40	Blended Ag nanofluids with optimized optical properties to regulate the performance of PV/T systems. <i>Solar Energy</i> , 2020, 208, 623-636.	2.9	24
41	Thermo-hydraulic coupled analysis of meshed district heating networks based on improved breadth first search method. <i>Energy</i> , 2020, 205, 117950.	4.5	17
42	Evaluation of anchor bolt effects on the thermal performance of building insulation materials. <i>Journal of Building Engineering</i> , 2020, 29, 101200.	1.6	3
43	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.	5.1	11
44	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.	2.9	27
45	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.	3.0	24
46	Investigating the performance of a novel solar lighting/heating system using spectrum-sensitive nanofluids. <i>Applied Energy</i> , 2020, 270, 115208.	5.1	32
47	A prediction model coupling occupant lighting and shading behaviors in private offices. <i>Energy and Buildings</i> , 2020, 216, 109939.	3.1	33
48	A Comparison of Various Bottom-Up Urban Energy Simulation Methods Using a Case Study in Hangzhou, China. <i>Energies</i> , 2020, 13, 4781.	1.6	8
49	Climate applicability study of building envelopes containing phase change materials. <i>International Journal of Energy Research</i> , 2019, 43, 7397.	2.2	2
50	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.	5.1	20
51	Integration of geothermal water into secondary network by absorption-heat-pump-assisted district heating substations. <i>Energy and Buildings</i> , 2019, 202, 109403.	3.1	17
52	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.	4.6	19
53	Developing window behavior models for residential buildings using XGBoost algorithm. <i>Energy and Buildings</i> , 2019, 205, 109564.	3.1	80
54	Development and energy evaluation of phase change material composite for building energy saving. <i>International Journal of Energy Research</i> , 2019, 43, 8674.	2.2	10

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55	Development and energy evaluation of novel integrated envelopes without thermal bridges. Energy and Buildings, 2019, 203, 109409.	3.1	2
56	Mathematical modeling and performance analysis of an integrated solar heating and cooling system driven by parabolic trough collector and double-effect absorption chiller. Energy and Buildings, 2019, 202, 109400.	3.1	31
57	Effect of implementing building energy efficiency labeling in China: A case study in Shanghai. Energy Policy, 2019, 133, 110898.	4.2	18
58	Optimal operation of novel hybrid district heating system driven by central and distributed variable speed pumps. Energy Conversion and Management, 2019, 196, 211-226.	4.4	23
59	Utilization of mineral wool waste and waste glass for synthesis of foam glass at low temperature. Construction and Building Materials, 2019, 215, 623-632.	3.2	44
60	Effects of indoor humidity on building occupants' thermal comfort and evidence in terms of climate adaptation. Building and Environment, 2019, 155, 298-307.	3.0	84
61	A model based on Gauss Distribution for predicting window behavior in building. Building and Environment, 2019, 149, 210-219.	3.0	60
62	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. Applied Thermal Engineering, 2019, 146, 203-211.	3.0	11
63	Thermal performance of an active-passive ventilation wall with phase change material in solar greenhouses. Applied Energy, 2018, 216, 602-612.	5.1	91
64	A study on influential factors of occupant window-opening behavior in an office building in China. Building and Environment, 2018, 133, 41-50.	3.0	84
65	Mathematical modeling and performance analysis of a solar air collector with slit-perforated corrugated plate. Solar Energy, 2018, 167, 147-157.	2.9	44
66	A computational model to determine the optimal orientation for solar greenhouses located at different latitudes in China. Solar Energy, 2018, 165, 19-26.	2.9	74
67	Going Beyond the Mean: Distributional Degree-Day Base Temperatures for Building Energy Analytics Using Change Point Quantile Regression. IEEE Access, 2018, 6, 39532-39540.	2.6	11
68	Orientation effect on thermal and energy performance of vertical greenery systems. Energy and Buildings, 2018, 175, 102-112.	3.1	37
69	A review on applications of shape-stabilized phase change materials embedded in building enclosure in recent ten years. Sustainable Cities and Society, 2018, 43, 251-264.	5.1	87
70	Ventilation behavior in residential buildings with mechanical ventilation systems across different climate zones in China. Building and Environment, 2018, 143, 679-690.	3.0	50
71	Impact of occupant behaviour on the energy-saving potential of retrofit measures for a public building in the UK. Intelligent Buildings International, 2017, 9, 97-106.	1.3	16
72	Energy Waste in Buildings Due to Occupant Behaviour. Energy Procedia, 2017, 105, 2233-2238.	1.8	26

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73	Using Phase Change Materials to Reduce Overheating Issues in UK Residential Buildings. Energy Procedia, 2017, 105, 4072-4077.	1.8	23
74	Operation stability analysis of district heating substation from the control perspective. Energy and Buildings, 2017, 154, 373-390.	3.1	22
75	Effectiveness of Using Phase Change Materials on Reducing Summer Overheating Issues in UK Residential Buildings with Identification of Influential Factors. Energies, 2016, 9, 605.	1.6	33
76	Identifying informative energy data in Bayesian calibration of building energy models. Energy and Buildings, 2016, 119, 363-376.	3.1	82
77	Indicators evaluating thermal inertia performance of envelopes with phase change material. Energy and Buildings, 2016, 122, 175-184.	3.1	42
78	Impact of the external window crack structure on indoor PM2.5 mass concentration. Building and Environment, 2016, 108, 240-251.	3.0	16
79	Improper Window Use in Office Buildings: Findings from a Longitudinal Study in Beijing, China. Energy Procedia, 2016, 88, 761-767.	1.8	8
80	A Case Study on Household Electricity Uses and Their Variations Due to Occupant Behavior in Chinese Apartments in Beijing. Journal of Asian Architecture and Building Engineering, 2015, 14, 679-686.	1.2	16
81	Effect of phase change materials on indoor thermal environment under different weather conditions and over a long time. Applied Energy, 2015, 140, 329-337.	5.1	70
82	Driving factors for occupant-controlled space heating in residential buildings. Energy and Buildings, 2014, 70, 36-44.	3.1	150
83	Active heat storage characteristics of active-passive triple wall with phase change material. Solar Energy, 2014, 110, 276-285.	2.9	44
84	Factors affecting "end-of-day" window position in a non-air-conditioned office building. Energy and Buildings, 2013, 62, 87-96.	3.1	32