Xingxing Zhang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Recent development and application of thermoelectric generator and cooler. Applied Energy, 2015, 143, 1-25.	10.1	602
2	A review of data-driven approaches for prediction and classification of building energy consumption. Renewable and Sustainable Energy Reviews, 2018, 82, 1027-1047.	16.4	488
3	Review of R&D progress and practical application of the solar photovoltaic/thermal (PV/T) technologies. Renewable and Sustainable Energy Reviews, 2012, 16, 599-617.	16.4	348
4	Indirect evaporative cooling: Past, present and future potentials. Renewable and Sustainable Energy Reviews, 2012, 16, 6823-6850.	16.4	337
5	A review of air filtration technologies for sustainable and healthy building ventilation. Sustainable Cities and Society, 2017, 32, 375-396.	10.4	244
6	A review of data centers as prosumers in district energy systems: Renewable energy integration and waste heat reuse for district heating. Applied Energy, 2020, 258, 114109.	10.1	160
7	Characterization of a solar photovoltaic/loop-heat-pipe heat pump water heating system. Applied Energy, 2013, 102, 1229-1245.	10.1	124
8	A review on opportunities for implementation of solar energy technologies in agricultural greenhouses. Journal of Cleaner Production, 2021, 285, 124807.	9.3	122
9	A review of thermal absorbers and their integration methods for the combined solar photovoltaic/thermal (PV/T) modules. Renewable and Sustainable Energy Reviews, 2017, 75, 839-854.	16.4	103
10	Dynamic performance of a novel solar photovoltaic/loop-heat-pipe heat pump system. Applied Energy, 2014, 114, 335-352.	10.1	102
11	Theoretical study of the performance of a novel PV/e roof module for heat pump operation. Energy Conversion and Management, 2011, 52, 603-614.	9.2	101
12	Techno-economic analysis of a solar photovoltaic/thermal (PV/T) concentrator for building application in Sweden using Monte Carlo method. Energy Conversion and Management, 2018, 165, 8-24.	9.2	100
13	Prediction of occupancy level and energy consumption in office building using blind system identification and neural networks. Applied Energy, 2019, 240, 276-294.	10.1	100
14	Theoretical investigation of the energy performance of a novel MPCM (Microencapsulated Phase) Tj ETQq0 0 0 i	rgBT /Over	lock 10 Tf 50
15	A review of reinforcement learning methodologies for controlling occupant comfort in buildings. Sustainable Cities and Society, 2019, 51, 101748.	10.4	96
16	Transforming a residential building cluster into electricity prosumers in Sweden: Optimal design of a coupled PV-heat pump-thermal storage-electric vehicle system. Applied Energy, 2019, 255, 113864.	10.1	92
17	A systematic review of recent air source heat pump (ASHP) systems assisted by solar thermal, photovoltaic and photovoltaic/thermal sources. Renewable Energy, 2020, 146, 2472-2487.	8.9	92

18A study on influential factors of occupant window-opening behavior in an office building in China.6.98418Building and Environment, 2018, 133, 41-50.6.984

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19	A review of urban energy systems at building cluster level incorporating renewable-energy-source (RES) envelope solutions. Applied Energy, 2018, 230, 1034-1056.	10.1	81
20	Design, fabrication and experimental study of a solar photovoltaic/loop-heat-pipe based heat pump system. Solar Energy, 2013, 97, 551-568.	6.1	78
21	Socio-economic performance of a novel solar photovoltaic/loop-heat-pipe heat pump water heating system in three different climatic regions. Applied Energy, 2014, 135, 20-34.	10.1	67
22	Life cycle assessment of a wooden single-family house in Sweden. Applied Energy, 2019, 251, 113253.	10.1	64
23	Operational performance of a novel heat pump assisted solar façade loop-heat-pipe water heating system. Applied Energy, 2015, 146, 371-382.	10.1	60
24	Analysis and interpretation of the particulate matter (PM10 and PM2.5) concentrations at the subway stations in Beijing, China. Sustainable Cities and Society, 2019, 45, 366-377.	10.4	60
25	Active Solar Thermal Facades (ASTFs): From concept, application to research questions. Renewable and Sustainable Energy Reviews, 2015, 50, 32-63.	16.4	58
26	A preliminary simulation study about the impact of COVID-19 crisis on energy demand of a building mix at a district in Sweden. Applied Energy, 2020, 280, 115954.	10.1	58
27	A coordinated control to improve performance for a building cluster with energy storage, electric vehicles, and energy sharing considered. Applied Energy, 2020, 268, 114983.	10.1	58
28	Solar-photovoltaic-power-sharing-based design optimization of distributed energy storage systems for performance improvements. Energy, 2021, 222, 119931.	8.8	56
29	IEA EBC Annex83 Positive Energy Districts. Buildings, 2021, 11, 130.	3.1	55
30	Cluster analysis for occupant-behavior based electricity load patterns in buildings: A case study in Shanghai residences. Building Simulation, 2017, 10, 889-898.	5.6	52
31	Characterizing Positive Energy District (PED) through a Preliminary Review of 60 Existing Projects in Europe. Buildings, 2021, 11, 318.	3.1	46
32	A novel reinforcement learning method for improving occupant comfort via window opening and closing. Sustainable Cities and Society, 2020, 61, 102247.	10.4	43
33	Global sensitivity analysis for key parameters identification of net-zero energy buildings for grid interaction optimization. Applied Energy, 2020, 279, 115820.	10.1	37
34	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. Applied Energy, 2021, 293, 116856.	10.1	37
35	A Review on Recent Development of Cooling Technologies for Concentrated Photovoltaics (CPV) Systems. Energies, 2018, 11, 3416.	3.1	36
36	Experimental investigation of a polymer hollow fibre integrated liquid desiccant dehumidification system with aqueous potassium formate solution. Applied Thermal Engineering, 2018, 142, 632-643.	6.0	35

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37	Theoretical investigation of the thermal performance of a novel solar loop-heat-pipe façade-based heat pump water heating system. Energy and Buildings, 2014, 77, 180-191.	6.7	34
38	Parallel experimental study of a novel super-thin thermal absorber based photovoltaic/thermal (PV/T) system against conventional photovoltaic (PV) system. Energy Reports, 2015, 1, 30-35.	5.1	34
39	A data-driven model predictive control for lighting system based on historical occupancy in an office building: Methodology development. Building Simulation, 2021, 14, 219-235.	5.6	33
40	Optimal Simulation of Three Peer to Peer (P2P) Business Models for Individual PV Prosumers in a Local Electricity Market Using Agent-Based Modelling. Buildings, 2020, 10, 138.	3.1	31
41	Numerical investigations and performance comparisons of a novel cross-flow hollow fiber integrated liquid desiccant dehumidification system. Energy, 2019, 182, 1115-1131.	8.8	29
42	Energy Waste in Buildings Due to Occupant Behaviour. Energy Procedia, 2017, 105, 2233-2238.	1.8	26
43	A hierarchical coordinated demand response control for buildings with improved performances at building group. Applied Energy, 2019, 242, 684-694.	10.1	25
44	Development of an adaptation table to enhance the accuracy of the predicted mean vote model. Building and Environment, 2020, 168, 106504.	6.9	25
45	Smart meter and in-home display for energy savings in residential buildings: a pilot investigation in Shanghai, China. Intelligent Buildings International, 2019, 11, 4-26.	2.3	24
46	Life Cycle Cost Analysis of a Single-Family House in Sweden. Buildings, 2021, 11, 215.	3.1	24
47	A review of factors affecting the efficiency of clean-in-place procedures in closed processing systems. Energy, 2019, 178, 57-71.	8.8	23
48	Digital Twin for Accelerating Sustainability in Positive Energy District: A Review of Simulation Tools and Applications. Frontiers in Sustainable Cities, 2021, 3, .	2.4	23
49	Experimental investigations of polymer hollow fibre integrated evaporative cooling system with the fibre bundles in a spindle shape. Energy and Buildings, 2017, 154, 166-174.	6.7	22
50	Case Study of Smart Meter and In-home Display for Residential Behavior Change in Shanghai, China. Energy Procedia, 2015, 75, 2694-2699.	1.8	21
51	The early design stage for building renovation with a novel loop-heat-pipe based solar thermal facade (LHP-STF) heat pump water heating system: Techno-economic analysis in three European climates. Energy Conversion and Management, 2015, 106, 964-986.	9.2	21
52	Design and experimental study of a novel air conditioning system using evaporative condenser at a subway station in Beijing, China. Sustainable Cities and Society, 2018, 43, 550-562.	10.4	21
53	Characteristic study of a novel compact Solar Thermal Facade (STF) with internally extruded pin–fin flow channel for building integration. Applied Energy, 2016, 168, 48-64.	10.1	20
54	Experimental study on crystallization process and prediction for the latent heat of ice slurry generation based sodium chloride solution. Applied Energy, 2017, 185, 1948-1953.	10.1	20

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55	The reinforcement learning method for occupant behavior in building control: A review. Energy and Built Environment, 2021, 2, 137-148.	5.9	20
56	An early-stage analysis of climate-adaptive designs for multi-family buildings under future climate scenario: Case studies in Rome, Italy and Stockholm, Sweden. Journal of Building Engineering, 2020, 27, 100972.	3.4	17
57	Comparative study of a novel liquid–vapour separator incorporated gravitational loop heat pipe against the conventional gravitational straight and loop heat pipes – Part I: Conceptual development and theoretical analyses. Energy Conversion and Management, 2015, 90, 409-426.	9.2	16
58	Exploring the Potential of Climate-Adaptive Container Building Design under Future Climates Scenarios in Three Different Climate Zones. Sustainability, 2020, 12, 108.	3.2	15
59	Recent progress in research on PM _{2.5} in subways. Environmental Sciences: Processes and Impacts, 2021, 23, 642-663.	3.5	15
60	Effect of connection mode and mass flux on the energy output of a PVT hot water system. Solar Energy, 2017, 158, 285-294.	6.1	14
61	Agent Based Modelling of a Local Energy Market: A Study of the Economic Interactions between Autonomous PV Owners within a Micro-Grid. Buildings, 2021, 11, 160.	3.1	14
62	Young urban households in Shanghai, China: Characteristics of energy use and attitudes. Sustainable Cities and Society, 2020, 60, 102174.	10.4	14
63	Study of the heat transport capacity of a novel gravitational loop heat pipe. International Journal of Low-Carbon Technologies, 2013, 8, 210-223.	2.6	13
64	An Investigation on Energy Consumption of Air Conditioning System in Beijing Subway Stations. Energy Procedia, 2017, 142, 2568-2573.	1.8	13
65	Life Cycle Cost of Building Energy Renovation Measures, Considering Future Energy Production Scenarios. Energies, 2019, 12, 2719.	3.1	13
66	Comparative study of a novel liquid–vapour separator incorporated gravitational loop heat pipe against the conventional gravitational straight and loop heat pipes – Part II: Experimental testing and simulation model validation. Energy Conversion and Management, 2015, 93, 228-238.	9.2	12
67	An Approach to Data Acquisition for Urban Building Energy Modeling Using a Gaussian Mixture Model and Expectation-Maximization Algorithm. Buildings, 2021, 11, 30.	3.1	12
68	Design of a residential photovoltaic system: the impact of the demand profile and the normative framework. Renewable Energy, 2020, 160, 1458-1467.	8.9	11
69	A preliminary techno-economic study of a building integrated photovoltaic (BIPV) system for a residential building cluster in Sweden by the integrated toolkit of BIM and PVSITES. Intelligent Buildings International, 2021, 13, 51-69.	2.3	11
70	Investigation of the Peer-to-Peer energy trading performances in a local community under the future climate change scenario in Sweden. Energy Reports, 2022, 8, 989-1001.	5.1	11
71	A Technical Review of Modeling Techniques for Urban Solar Mobility: Solar to Buildings, Vehicles, and Storage (S2BVS). Sustainability, 2020, 12, 7035.	3.2	10
72	Techno-economic analysis of an exhaust air heat pump system assisted by unglazed transpired solar collectors in a Swedish residential cluster. Solar Energy, 2021, 224, 966-983.	6.1	9

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73	Evaluating multiple parameters dependency of base temperature for heating degree-days in building energy prediction. Building Simulation, 2021, 14, 969-985.	5.6	9
74	A characteristic study on the start-up performance of molten-salt heat pipes: Experimental investigation. Experimental Thermal and Fluid Science, 2017, 82, 433-438.	2.7	8
75	Thermal and Optical Analysis of a Passive Heat Recovery and Storage System for Greenhouse Skin. Procedia Engineering, 2016, 155, 472-478.	1.2	7
76	Design Strategy of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration Based on BIM Concept. Energy Procedia, 2017, 105, 1-6.	1.8	7
77	Life Cycle Cost of Heat Supply to Areas with Detached Houses—A Comparison of District Heating and Heat Pumps from an Energy System Perspective. Energies, 2018, 11, 3266.	3.1	7
78	Holistic electrification vs deep energy retrofits for optimal decarbonisation pathways of UK dwellings: A case study of the 1940s' British post-war masonry house. Energy, 2022, 241, 122935.	8.8	7
79	Conceptual Development of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration. Energy Procedia, 2016, 96, 42-54.	1.8	6
80	A Top-Down Digital Mapping of Spatial-Temporal Energy Use for Municipality-Owned Buildings: A Case Study in Borläge, Sweden. Buildings, 2021, 11, 72.	3.1	6
81	A GA-based NZEB-cluster planning and design optimization method for mitigating grid overvoltage risk. Energy, 2022, 243, 123051.	8.8	6
82	Design, Fabrication and Experimental Study of a Novel Loop-heat-pipe Based Solar Thermal Facade Water Heating System. Energy Procedia, 2015, 75, 566-571.	1.8	5
83	Experimental Study of a Compact Unglazed Solar Thermal Facade (STF) for Energy-efficient Buildings. Energy Procedia, 2016, 104, 3-8.	1.8	5
84	Optimizing the Configuration of a Compact Thermal Facade Module for Solar Renovation Concept in Buildings. Energy Procedia, 2016, 104, 9-14.	1.8	5
85	Digital Mapping of Techno-Economic Performance of a Water-Based Solar Photovoltaic/Thermal (PVT) System for Buildings over Large Geographical Cities. Buildings, 2020, 10, 148.	3.1	5
86	Strategies of Design Concepts and Energy Systems for Nearly Zero-Energy Container Buildings (NZECBs) in Different Climates. Buildings, 2021, 11, 364.	3.1	5
87	The perception of Swedish housing owner's on the strategies to increase the rate of energy efficient refurbishment of multi-family buildings. Intelligent Buildings International, 2020, 12, 153-168.	2.3	4
88	The Early Design Stage of a Novel Solar Thermal Façade (STF) for Building Integration: Energy Performance Simulation and Socio-Economic Analysis. Energy Procedia, 2016, 96, 55-66.	1.8	3
89	Assessment of the Effectiveness of Investment Strategy in Solar Photovoltaic (PV) Energy Sector: A Case Study. Energy Procedia, 2017, 105, 2977-2982.	1.8	2
90	Generating hourly electricity demand data for large-scale single-family buildings by a decomposition-recombination method. Energy and Built Environment, 2023, 4, 418-431.	5.9	2

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91	Heat Pump Technologies and Their Applications in Solar Systems. Green Energy and Technology, 2019, , 311-339.	0.6	1
92	Reinforcement Learning Methodologies for Controlling Occupant Comfort in Buildings. Sustainable Development Goals Series, 2021, , 179-205.	0.4	1
93	Solar Photovoltaic/Thermal Technologies and Their Application in Building Retrofitting. , 2013, , 615-658.		1
94	Comparative Investigation of Solar Photovoltaic (PV) and Photovoltaic/Thermal (PV/T) Systems by both Laboratory and Field Experiments. , 2016, , 673-682.		0
95	Solar Systems' Economic and Environmental Performance Assessment. Green Energy and Technology, 2019, , 453-486.	0.6	Ο
96	Solar System Design and Energy Performance Assessment Approaches. Green Energy and Technology, 2019, , 417-451.	0.6	0
97	Study of a Novel Liquid-Vapour Separator-Incorporated Gravitational Loop Heat Pipe. , 0, , .		0
98	An economic analysis of the solar photovoltaic/thermal (PV/T) technologies in Sweden: a case study. IOP Conference Series: Materials Science and Engineering, 2019, 556, 012002.	0.6	0
99	Building Renovation Adapting to Future Climate: A Potential Solution of Phase-Change Material to Building Envelope. , 2021, , 1-61.		0
100	Genetic Algorithm and Mont Carlo Method for Global Sensitivity Analysis of Key Parameters Identification of Net Zero Energy Buildings Towards Power Grid Interaction Optimization. Sustainable Development Goals Series, 2021, , 337-358.	0.4	0
101	A Prediction Accuracy Weighted Voting Ensemble Method for Thermal Sensation Evaluation. Sustainable Development Goals Series, 2021, , 249-267.	0.4	0
102	Genetic Algorithm for Transforming a Residential Building Cluster into Electricity Prosumers. Sustainable Development Goals Series, 2021, , 285-315.	0.4	0
103	Prediction of Occupancy Level and Energy Consumption in Office Building Using Blind System Identification and Neural Networks. Sustainable Development Goals Series, 2021, , 47-79.	0.4	0
104	Cluster Analysis for Occupant-Behaviour Based Electricity Load Patterns in Buildings: A Case Study in Shanghai Residences. Sustainable Development Goals Series, 2021, , 81-92.	0.4	0
105	Local Energy Communities: Market Design Evaluation Using Agent Based Modelling. Sustainable Development Goals Series, 2021, , 359-386.	0.4	0
106	A Novel Reinforcement Learning Method for Improving Occupant Comfort via Window Opening and Closing. Sustainable Development Goals Series, 2021, , 207-226.	0.4	0
107	The Evolving of Data-Driven Analytics for Buildings and Cities Towards Sustainability. Sustainable Development Goals Series, 2021, , 1-7.	0.4	0
108	Digital Mapping of Techno-Economic Performance of a Water-Based Solar Photovoltaic/thermal (PVT) System for Buildings Over Large Geographical Cities. Sustainable Development Goals Series, 2021, , 423-450.	0.4	0

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109	Building Renovation Adapting to Future Climate: A Potential Solution of Phase Change Material to Building Envelope. , 2022, , 2925-2984.		0