

# Xingxing Zhang

## List of Publications by Year in descending order

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109  
papers

5,173  
citations

109321

35  
h-index

88630

70  
g-index

112  
all docs

112  
docs citations

112  
times ranked

4534  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generating hourly electricity demand data for large-scale single-family buildings by a decomposition-recombination method. <i>Energy and Built Environment</i> , 2023, 4, 418-431.	5.9	2
2	Holistic electrification vs deep energy retrofits for optimal decarbonisation pathways of UK dwellings: A case study of the 1940sâ€™ British post-war masonry house. <i>Energy</i> , 2022, 241, 122935.	8.8	7
3	A GA-based NZEB-cluster planning and design optimization method for mitigating grid overvoltage risk. <i>Energy</i> , 2022, 243, 123051.	8.8	6
4	Investigation of the Peer-to-Peer energy trading performances in a local community under the future climate change scenario in Sweden. <i>Energy Reports</i> , 2022, 8, 989-1001.	5.1	11
5	Building Renovation Adapting to Future Climate: A Potential Solution of Phase Change Material to Building Envelope. , 2022, , 2925-2984.		0
6	A data-driven model predictive control for lighting system based on historical occupancy in an office building: Methodology development. <i>Building Simulation</i> , 2021, 14, 219-235.	5.6	33
7	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. <i>Intelligent Buildings International</i> , 2021, 13, 51-69.	2.3	11
8	The reinforcement learning method for occupant behavior in building control: A review. <i>Energy and Built Environment</i> , 2021, 2, 137-148.	5.9	20
9	A review on opportunities for implementation of solar energy technologies in agricultural greenhouses. <i>Journal of Cleaner Production</i> , 2021, 285, 124807.	9.3	122
10	Reinforcement Learning Methodologies for Controlling Occupant Comfort in Buildings. <i>Sustainable Development Goals Series</i> , 2021, , 179-205.	0.4	1
11	Building Renovation Adapting to Future Climate: A Potential Solution of Phase-Change Material to Building Envelope. , 2021, , 1-61.		0
12	Genetic Algorithm and Mont Carlo Method for Global Sensitivity Analysis of Key Parameters Identification of Net Zero Energy Buildings Towards Power Grid Interaction Optimization. <i>Sustainable Development Goals Series</i> , 2021, , 337-358.	0.4	0
13	Recent progress in research on PM <sub>2.5</sub> in subways. <i>Environmental Sciences: Processes and Impacts</i> , 2021, 23, 642-663.	3.5	15
14	A Prediction Accuracy Weighted Voting Ensemble Method for Thermal Sensation Evaluation. <i>Sustainable Development Goals Series</i> , 2021, , 249-267.	0.4	0
15	Genetic Algorithm for Transforming a Residential Building Cluster into Electricity Prosumers. <i>Sustainable Development Goals Series</i> , 2021, , 285-315.	0.4	0
16	Prediction of Occupancy Level and Energy Consumption in Office Building Using Blind System Identification and Neural Networks. <i>Sustainable Development Goals Series</i> , 2021, , 47-79.	0.4	0
17	A Top-Down Digital Mapping of Spatial-Temporal Energy Use for Municipality-Owned Buildings: A Case Study in Borlânge, Sweden. <i>Buildings</i> , 2021, 11, 72.	3.1	6
18	IEA EBC Annex83 Positive Energy Districts. <i>Buildings</i> , 2021, 11, 130.	3.1	55

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19	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
20	Life Cycle Cost Analysis of a Single-Family House in Sweden. Buildings, 2021, 11, 215.	3.1	24
21	Solar-photovoltaic-power-sharing-based design optimization of distributed energy storage systems for performance improvements. Energy, 2021, 222, 119931.	8.8	56
22	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
23	Occupant behavior modeling methods for resilient building design, operation and policy at urban scale: A review. Applied Energy, 2021, 293, 116856.	10.1	37
24	Characterizing Positive Energy District (PED) through a Preliminary Review of 60 Existing Projects in Europe. Buildings, 2021, 11, 318.	3.1	46
25	Strategies of Design Concepts and Energy Systems for Nearly Zero-Energy Container Buildings (NZECBs) in Different Climates. Buildings, 2021, 11, 364.	3.1	5
26	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
27	Evaluating multiple parameters dependency of base temperature for heating degree-days in building energy prediction. Building Simulation, 2021, 14, 969-985.	5.6	9
28	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
29	Local Energy Communities: Market Design Evaluation Using Agent Based Modelling. Sustainable Development Goals Series, 2021, , 359-386.	0.4	0
30	A Novel Reinforcement Learning Method for Improving Occupant Comfort via Window Opening and Closing. Sustainable Development Goals Series, 2021, , 207-226.	0.4	0
31	The Evolving of Data-Driven Analytics for Buildings and Cities Towards Sustainability. Sustainable Development Goals Series, 2021, , 1-7.	0.4	0
32	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
33	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
34	The perception of Swedish housing ownerâ€™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
35	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
36	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

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37	A review of data centers as prosumers in district energy systems: Renewable energy integration and waste heat reuse for district heating. <i>Applied Energy</i> , 2020, 258, 114109.	10.1	160
38	Development of an adaptation table to enhance the accuracy of the predicted mean vote model. <i>Building and Environment</i> , 2020, 168, 106504.	6.9	25
39	Global sensitivity analysis for key parameters identification of net-zero energy buildings for grid interaction optimization. <i>Applied Energy</i> , 2020, 279, 115820.	10.1	37
40	Design of a residential photovoltaic system: the impact of the demand profile and the normative framework. <i>Renewable Energy</i> , 2020, 160, 1458-1467.	8.9	11
41	A preliminary simulation study about the impact of COVID-19 crisis on energy demand of a building mix at a district in Sweden. <i>Applied Energy</i> , 2020, 280, 115954.	10.1	58
42	A Technical Review of Modeling Techniques for Urban Solar Mobility: Solar to Buildings, Vehicles, and Storage (S2BVS). <i>Sustainability</i> , 2020, 12, 7035.	3.2	10
43	Digital Mapping of Techno-Economic Performance of a Water-Based Solar Photovoltaic/Thermal (PVT) System for Buildings over Large Geographical Cities. <i>Buildings</i> , 2020, 10, 148.	3.1	5
44	Optimal Simulation of Three Peer to Peer (P2P) Business Models for Individual PV Prosumers in a Local Electricity Market Using Agent-Based Modelling. <i>Buildings</i> , 2020, 10, 138.	3.1	31
45	A coordinated control to improve performance for a building cluster with energy storage, electric vehicles, and energy sharing considered. <i>Applied Energy</i> , 2020, 268, 114983.	10.1	58
46	Exploring the Potential of Climate-Adaptive Container Building Design under Future Climates Scenarios in Three Different Climate Zones. <i>Sustainability</i> , 2020, 12, 108.	3.2	15
47	Young urban households in Shanghai, China: Characteristics of energy use and attitudes. <i>Sustainable Cities and Society</i> , 2020, 60, 102174.	10.4	14
48	A novel reinforcement learning method for improving occupant comfort via window opening and closing. <i>Sustainable Cities and Society</i> , 2020, 61, 102247.	10.4	43
49	A review of reinforcement learning methodologies for controlling occupant comfort in buildings. <i>Sustainable Cities and Society</i> , 2019, 51, 101748.	10.4	96
50	Solar Systemsâ€™ Economic and Environmental Performance Assessment. <i>Green Energy and Technology</i> , 2019, , 453-486.	0.6	0
51	Solar System Design and Energy Performance Assessment Approaches. <i>Green Energy and Technology</i> , 2019, , 417-451.	0.6	0
52	Heat Pump Technologies and Their Applications in Solar Systems. <i>Green Energy and Technology</i> , 2019, , 311-339.	0.6	1
53	Life Cycle Cost of Building Energy Renovation Measures, Considering Future Energy Production Scenarios. <i>Energies</i> , 2019, 12, 2719.	3.1	13
54	Transforming a residential building cluster into electricity prosumers in Sweden: Optimal design of a coupled PV-heat pump-thermal storage-electric vehicle system. <i>Applied Energy</i> , 2019, 255, 113864.	10.1	92

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55	Numerical investigations and performance comparisons of a novel cross-flow hollow fiber integrated liquid desiccant dehumidification system. <i>Energy</i> , 2019, 182, 1115-1131.	8.8	29
56	Life cycle assessment of a wooden single-family house in Sweden. <i>Applied Energy</i> , 2019, 251, 113253.	10.1	64
57	A review of factors affecting the efficiency of clean-in-place procedures in closed processing systems. <i>Energy</i> , 2019, 178, 57-71.	8.8	23
58	A hierarchical coordinated demand response control for buildings with improved performances at building group. <i>Applied Energy</i> , 2019, 242, 684-694.	10.1	25
59	Prediction of occupancy level and energy consumption in office building using blind system identification and neural networks. <i>Applied Energy</i> , 2019, 240, 276-294.	10.1	100
60	An economic analysis of the solar photovoltaic/thermal (PV/T) technologies in Sweden: a case study. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 556, 012002.	0.6	0
61	Analysis and interpretation of the particulate matter (PM10 and PM2.5) concentrations at the subway stations in Beijing, China. <i>Sustainable Cities and Society</i> , 2019, 45, 366-377.	10.4	60
62	Smart meter and in-home display for energy savings in residential buildings: a pilot investigation in Shanghai, China. <i>Intelligent Buildings International</i> , 2019, 11, 4-26.	2.3	24
63	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
64	Techno-economic analysis of a solar photovoltaic/thermal (PV/T) concentrator for building application in Sweden using Monte Carlo method. <i>Energy Conversion and Management</i> , 2018, 165, 8-24.	9.2	100
65	A review of data-driven approaches for prediction and classification of building energy consumption. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 1027-1047.	16.4	488
66	Life Cycle Cost of Heat Supply to Areas with Detached Houses—A Comparison of District Heating and Heat Pumps from an Energy System Perspective. <i>Energies</i> , 2018, 11, 3266.	3.1	7
67	A Review on Recent Development of Cooling Technologies for Concentrated Photovoltaics (CPV) Systems. <i>Energies</i> , 2018, 11, 3416.	3.1	36
68	Design and experimental study of a novel air conditioning system using evaporative condenser at a subway station in Beijing, China. <i>Sustainable Cities and Society</i> , 2018, 43, 550-562.	10.4	21
69	A review of urban energy systems at building cluster level incorporating renewable-energy-source (RES) envelope solutions. <i>Applied Energy</i> , 2018, 230, 1034-1056.	10.1	81
70	Experimental investigation of a polymer hollow fibre integrated liquid desiccant dehumidification system with aqueous potassium formate solution. <i>Applied Thermal Engineering</i> , 2018, 142, 632-643.	6.0	35
71	Experimental study on crystallization process and prediction for the latent heat of ice slurry generation based sodium chloride solution. <i>Applied Energy</i> , 2017, 185, 1948-1953.	10.1	20
72	A review of air filtration technologies for sustainable and healthy building ventilation. <i>Sustainable Cities and Society</i> , 2017, 32, 375-396.	10.4	244

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73	A characteristic study on the start-up performance of molten-salt heat pipes: Experimental investigation. <i>Experimental Thermal and Fluid Science</i> , 2017, 82, 433-438.	2.7	8
74	A review of thermal absorbers and their integration methods for the combined solar photovoltaic/thermal (PV/T) modules. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 75, 839-854.	16.4	103
75	Cluster analysis for occupant-behavior based electricity load patterns in buildings: A case study in Shanghai residences. <i>Building Simulation</i> , 2017, 10, 889-898.	5.6	52
76	Energy Waste in Buildings Due to Occupant Behaviour. <i>Energy Procedia</i> , 2017, 105, 2233-2238.	1.8	26
77	Effect of connection mode and mass flux on the energy output of a PVT hot water system. <i>Solar Energy</i> , 2017, 158, 285-294.	6.1	14
78	Experimental investigations of polymer hollow fibre integrated evaporative cooling system with the fibre bundles in a spindle shape. <i>Energy and Buildings</i> , 2017, 154, 166-174.	6.7	22
79	Assessment of the Effectiveness of Investment Strategy in Solar Photovoltaic (PV) Energy Sector: A Case Study. <i>Energy Procedia</i> , 2017, 105, 2977-2982.	1.8	2
80	Design Strategy of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration Based on BIM Concept. <i>Energy Procedia</i> , 2017, 105, 1-6.	1.8	7
81	An Investigation on Energy Consumption of Air Conditioning System in Beijing Subway Stations. <i>Energy Procedia</i> , 2017, 142, 2568-2573.	1.8	13
82	Conceptual Development of a Compact Unglazed Solar Thermal Facade (STF) for Building Integration. <i>Energy Procedia</i> , 2016, 96, 42-54.	1.8	6
83	The Early Design Stage of a Novel Solar Thermal Façade (STF) for Building Integration: Energy Performance Simulation and Socio-Economic Analysis. <i>Energy Procedia</i> , 2016, 96, 55-66.	1.8	3
84	Experimental Study of a Compact Unglazed Solar Thermal Facade (STF) for Energy-efficient Buildings. <i>Energy Procedia</i> , 2016, 104, 3-8.	1.8	5
85	Optimizing the Configuration of a Compact Thermal Facade Module for Solar Renovation Concept in Buildings. <i>Energy Procedia</i> , 2016, 104, 9-14.	1.8	5
86	Thermal and Optical Analysis of a Passive Heat Recovery and Storage System for Greenhouse Skin. <i>Procedia Engineering</i> , 2016, 155, 472-478.	1.2	7
87	Characteristic study of a novel compact Solar Thermal Facade (STF) with internally extruded pin-fin flow channel for building integration. <i>Applied Energy</i> , 2016, 168, 48-64.	10.1	20
88	Comparative Investigation of Solar Photovoltaic (PV) and Photovoltaic/Thermal (PV/T) Systems by both Laboratory and Field Experiments. , 2016, , 673-682.		0
89	Active Solar Thermal Facades (ASTFs): From concept, application to research questions. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 32-63.	16.4	58
90	Theoretical investigation of the energy performance of a novel MPCM (Microencapsulated Phase) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	8.8	98

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91	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
92	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
93	Recent development and application of thermoelectric generator and cooler. Applied Energy, 2015, 143, 1-25.	10.1	602
94	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
95	Operational performance of a novel heat pump assisted solar facade loop-heat-pipe water heating system. Applied Energy, 2015, 146, 371-382.	10.1	60
96	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
97	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
98	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
99	Dynamic performance of a novel solar photovoltaic/loop-heat-pipe heat pump system. Applied Energy, 2014, 114, 335-352.	10.1	102
100	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
101	Theoretical investigation of the thermal performance of a novel solar loop-heat-pipe facade-based heat pump water heating system. Energy and Buildings, 2014, 77, 180-191.	6.7	34
102	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
103	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
104	Characterization of a solar photovoltaic/loop-heat-pipe heat pump water heating system. Applied Energy, 2013, 102, 1229-1245.	10.1	124
105	Solar Photovoltaic/Thermal Technologies and Their Application in Building Retrofitting. , 2013, , 615-658.		1
106	Indirect evaporative cooling: Past, present and future potentials. Renewable and Sustainable Energy Reviews, 2012, 16, 6823-6850.	16.4	337
107	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
108	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

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109	Study of a Novel Liquid-Vapour Separator-Incorporated Gravitational Loop Heat Pipe. , 0, , .		0