

Jinqing Peng

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

101
papers

3,295
citations

31
h-index

56
g-index

104
ext. papers

4,281
ext. citations

7.3
avg, IF

6
L-index

#	Paper	IF	Citations
101	Review on life cycle assessment of energy payback and greenhouse gas emission of solar photovoltaic systems. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 19, 255-274	16.2	413
100	Technical feasibility study on a standalone hybrid solar-wind system with pumped hydro storage for a remote island in Hong Kong. <i>Renewable Energy</i> , 2014 , 69, 7-15	8.1	224
99	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , 2015 , 137, 649-659	10.7	223
98	Numerical investigation of the energy saving potential of a semi-transparent photovoltaic double-skin facade in a cool-summer Mediterranean climate. <i>Applied Energy</i> , 2016 , 165, 345-356	10.7	141
97	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , 2015 , 160, 728-736	10.7	134
96	Comparison of energy performance between PV double skin facades and PV insulating glass units. <i>Applied Energy</i> , 2017 , 194, 148-160	10.7	110
95	Investigation on the annual thermal performance of a photovoltaic wall mounted on a multi-layer facade. <i>Applied Energy</i> , 2013 , 112, 646-656	10.7	105
94	An experimental study of the thermal performance of a novel photovoltaic double-skin facade in Hong Kong. <i>Solar Energy</i> , 2013 , 97, 293-304	6.8	99
93	Comparative study of the thermal and power performances of a semi-transparent photovoltaic facade under different ventilation modes. <i>Applied Energy</i> , 2015 , 138, 572-583	10.7	94
92	Investigation on the development potential of rooftop PV system in Hong Kong and its environmental benefits. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 149-162	16.2	94
91	Liquid Thermo-Responsive Smart Window Derived from Hydrogel. <i>Joule</i> , 2020 , 4, 2458-2474	27.8	85
90	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019 , 3, 858-871	27.8	76
89	Energy consumption of cryptocurrency mining: A study of electricity consumption in mining cryptocurrencies. <i>Energy</i> , 2019 , 168, 160-168	7.9	72
88	Nanofluid based photovoltaic thermal systems integrated with phase change materials: Numerical simulation and thermodynamic analysis. <i>Energy Conversion and Management</i> , 2020 , 205, 112384	10.6	67
87	Comparison of the overall energy performance of semi-transparent photovoltaic windows and common energy-efficient windows in Hong Kong. <i>Energy and Buildings</i> , 2016 , 128, 511-518	7	65
86	Estimation of Hong Kong's solar energy potential using GIS and remote sensing technologies. <i>Renewable Energy</i> , 2016 , 99, 325-335	8.1	63
85	Performance of ventilated double-sided PV facade compared with conventional clear glass facade. <i>Energy and Buildings</i> , 2013 , 56, 204-209	7	62

84	Assessment of energy performance of semi-transparent PV insulating glass units using a validated simulation model. <i>Energy</i> , 2016 , 112, 538-548	7.9	52
83	Study on the overall energy performance of a novel c-Si based semitransparent solar photovoltaic window. <i>Applied Energy</i> , 2019 , 242, 854-872	10.7	51
82	Evaluation of potential benefits of solar photovoltaic shadings in Hong Kong. <i>Energy</i> , 2017 , 137, 1152-1158	7.9	48
81	Validation of the Sandia model with indoor and outdoor measurements for semi-transparent amorphous silicon PV modules. <i>Renewable Energy</i> , 2015 , 80, 316-323	8.1	46
80	Energy, exergy and environmental analysis of glazed and unglazed PVT system integrated with phase change material: An experimental approach. <i>Solar Energy</i> , 2020 , 201, 178-189	6.8	46
79	Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. <i>Energy Conversion and Management</i> , 2020 , 213, 112868	10.6	43
78	Field study on adaptive comfort in air conditioned dormitories of university with hot-humid climate in summer. <i>Energy and Buildings</i> , 2016 , 119, 1-12	7	41
77	Developing a method and simulation model for evaluating the overall energy performance of a ventilated semi-transparent photovoltaic double-skin facade. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 781-799	6.8	39
76	Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. <i>Energy</i> , 2019 , 172, 1-17	7.9	37
75	Experimental study of internally cooled liquid desiccant dehumidification: Application in Hong Kong and intensive analysis of influencing factors. <i>Building and Environment</i> , 2015 , 93, 210-220	6.5	37
74	Using an ensemble machine learning methodology-Bagging to predict occupants thermal comfort in buildings. <i>Energy and Buildings</i> , 2018 , 173, 117-127	7	36
73	Field study on thermal comfort and energy saving potential in 11 split air-conditioned office buildings in Changsha, China. <i>Energy</i> , 2019 , 182, 471-482	7.9	35
72	Overall and local thermal sensation & comfort in air-conditioned dormitory with hot-humid climate. <i>Building and Environment</i> , 2016 , 101, 102-109	6.5	33
71	Adaptive thermal comfort in naturally ventilated dormitory buildings in Changsha, China. <i>Energy and Buildings</i> , 2019 , 186, 56-70	7	31
70	How do urban residents use energy for winter heating at home? A large-scale survey in the hot summer and cold winter climate zone in the Yangtze River region. <i>Energy and Buildings</i> , 2020 , 223, 110131	7.1	29
69	Study on the dynamic and thermal performances of a reversibly used cooling tower with upward spraying. <i>Energy</i> , 2016 , 96, 268-277	7.9	25
68	A comprehensive review and outlook of bifacial photovoltaic (bPV) technology. <i>Energy Conversion and Management</i> , 2020 , 223, 113283	10.6	25
67	Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. <i>Journal of Cleaner Production</i> , 2019 , 220, 313-330	10.3	25

66	Integration of Building Information Modeling and Web Service Application Programming Interface for assessing building surroundings in early design stages. <i>Building and Environment</i> , 2019 , 153, 91-100	6.5	23
65	Study on energy and economic benefits of converting a combined heating and power system to a tri-generation system for sewage treatment plants in subtropical area. <i>Applied Thermal Engineering</i> , 2016 , 94, 24-39	5.8	23
64	Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. <i>Applied Energy</i> , 2021 , 281, 116038	10.7	22
63	Optimization of reversibly used cooling tower with downward spraying. <i>Energy</i> , 2017 , 127, 30-43	7.9	21
62	Performance comparisons of two flat-plate photovoltaic thermal collectors with different channel configurations. <i>Energy</i> , 2019 , 175, 300-308	7.9	20
61	A review of currently applied building information modeling tools of constructions in China. <i>Journal of Cleaner Production</i> , 2018 , 201, 358-368	10.3	19
60	Optimal design of photovoltaic shading systems for multi-story buildings. <i>Journal of Cleaner Production</i> , 2019 , 220, 1024-1038	10.3	18
59	Experimental study of the film thickness in the dehumidifier of a liquid desiccant air conditioning system. <i>Energy</i> , 2015 , 84, 239-246	7.9	18
58	Investigation on the thermal performance of a novel spray tower with upward spraying and downward gas flow. <i>Applied Energy</i> , 2018 , 231, 12-21	10.7	18
57	Modeling the particle scavenging and thermal efficiencies of a heat absorbing scrubber. <i>Building and Environment</i> , 2017 , 111, 218-227	6.5	15
56	Dynamic coupling method between air-source heat pumps and buildings in China's hot-summer/cold-winter zone. <i>Applied Energy</i> , 2019 , 254, 113664	10.7	14
55	An Optimization Sizing Model for Solar Photovoltaic Power Generation System with Pumped Storage. <i>Energy Procedia</i> , 2014 , 61, 5-8	2.3	14
54	A field survey on thermal comfort and energy consumption of traditional electric heating devices (Huo Xiang) for residents in regions without central heating systems in China. <i>Energy and Buildings</i> , 2019 , 196, 134-144	7	13
53	Using Upper Extremity Skin Temperatures to Assess Thermal Comfort in Office Buildings in Changsha, China. <i>International Journal of Environmental Research and Public Health</i> , 2017 , 14,	4.6	13
52	A review for presenting building information modeling education and research in China. <i>Journal of Cleaner Production</i> , 2020 , 259, 120885	10.3	12
51	3D Printed Smart Windows for Adaptive Solar Modulations. <i>Advanced Optical Materials</i> , 2020 , 8, 2000013	8.1	12
50	Effect of long-term indoor thermal history on human physiological and psychological responses: A pilot study in university dormitory buildings. <i>Building and Environment</i> , 2019 , 166, 106425	6.5	11
49	Experimental Study on Thermal Performance of Semi-transparent PV Window in Winter in Hong Kong. <i>Energy Procedia</i> , 2017 , 105, 864-868	2.3	11

48	Modelling analyses of the thermal property and heat transfer performance of a novel composite PV vacuum glazing. <i>Renewable Energy</i> , 2021 , 163, 1238-1252	8.1	11
47	Solar energy integration in buildings. <i>Applied Energy</i> , 2020 , 264, 114740	10.7	10
46	Performance Analyses of Counter-Flow Closed Wet Cooling Towers Based on a Simplified Calculation Method. <i>Energies</i> , 2017 , 10, 282	3.1	10
45	Overall energy assessment and integration optimization process of semitransparent PV glazing technologies. <i>Progress in Photovoltaics: Research and Applications</i> , 2018 , 26, 473-490	6.8	10
44	Comparison of different simplistic prediction models for forecasting PV power output: Assessment with experimental measurements. <i>Energy</i> , 2021 , 224, 120162	7.9	10
43	Performance evaluation of semi-transparent CdTe thin film PV window applying on commercial buildings in Hong Kong. <i>Energy Procedia</i> , 2018 , 152, 1091-1096	2.3	10
42	Manufacturing of 50 kA superconducting transformer for ITER correction coil conductor test. <i>Review of Scientific Instruments</i> , 2010 , 81, 044701	1.7	9
41	A new model to evaluate solar spectrum impacts on the short circuit current of solar photovoltaic modules. <i>Energy</i> , 2019 , 169, 29-37	7.9	9
40	Comparative study of the dynamic programming-based and rule-based operation strategies for grid-connected PV-battery systems of office buildings. <i>Applied Energy</i> , 2022 , 305, 117875	10.7	9
39	Investigations on the Energy Efficiency of Stratified Air Distribution Systems with Different Diffuser Layouts. <i>Sustainability</i> , 2016 , 8, 732	3.6	8
38	Comparative Study on Static and Dynamic Analyses of an Ultra-thin Double-Glazing PV Module Based on FEM. <i>Energy Procedia</i> , 2015 , 75, 343-348	2.3	7
37	An improved method for direct incident solar radiation calculation from hourly solar insolation data in building energy simulation. <i>Energy and Buildings</i> , 2020 , 227, 110425	7	7
36	Parametric study of the impact of window attachments on air conditioning energy consumption. <i>Solar Energy</i> , 2020 , 202, 136-143	6.8	6
35	Study on Optimum Tilt Angles of Photovoltaic Shading Systems in Different Climatic Regions of China. <i>Procedia Engineering</i> , 2017 , 205, 1157-1164		6
34	Analysis of the Effect of the CaCl ₂ Mass Fraction on the Efficiency of a Heat Pump Integrated Heat-Source Tower Using an Artificial Neural Network Model. <i>Sustainability</i> , 2016 , 8, 410	3.6	6
33	Comparative study on the overall energy performance between photovoltaic and Low-E insulated glass units. <i>Solar Energy</i> , 2021 , 214, 443-456	6.8	6
32	A highly efficient solution for thermal compensation of ground-coupled heat pump systems and waste heat recovery of kitchen exhaust air. <i>Energy and Buildings</i> , 2017 , 138, 499-513	7	5
31	Study of the application potential of photovoltaic direct-driven air conditioners in different climate zones. <i>Energy and Buildings</i> , 2020 , 226, 110387	7	5

30	The 50 kA Superconducting Transformer for Testing ITER CC Conductors Short Sample. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1155-1158	1.8	4
29	Parametric study of venetian blinds for energy performance evaluation and classification in residential buildings. <i>Energy</i> , 2022 , 239, 122266	7.9	4
28	Modeling and Optimization of a CoolingTower-Assisted Heat Pump System. <i>Energies</i> , 2017 , 10, 733	3.1	3
27	Zero energy potential of photovoltaic direct-driven air conditioners with considering the load flexibility of air conditioners. <i>Applied Energy</i> , 2021 , 304, 117821	10.7	3
26	Study on the Operation Strategy of Ventilated Photovoltaic Windows in Hot-Summer and Cold-Winter Zone in China. <i>Procedia Engineering</i> , 2017 , 205, 2092-2099		2
25	Study on the Optimizing Operation of Exhaust Air Heat Recovery and Solar Energy Combined Thermal Compensation System for Ground-Coupled Heat Pump. <i>International Journal of Photoenergy</i> , 2017 , 2017, 1-19	2.1	2
24	Manufacture and Measurement of a Fifty Kilo-Ampere Superconducting Transformer for the ASIPP Conductor Test Facility. <i>IEEE Transactions on Applied Superconductivity</i> , 2012 , 22, 5500404-5500404	1.8	2
23	The Design of Test Facility for ITER CC Conductor. <i>IEEE Transactions on Applied Superconductivity</i> , 2010 , 20, 1973-1976	1.8	2
22	The cryogenic system for ITER CC superconducting conductor test facility. <i>Cryogenics</i> , 2011 , 51, 62-67	1.8	2
21	Influence of different building transparent envelopes on energy consumption and thermal environment of radiant ceiling heating and cooling systems. <i>Energy and Buildings</i> , 2022 , 255, 111702	7	2
20	Creating alliesthesia in cool environments using personal comfort systems. <i>Building and Environment</i> , 2021 , 209, 108642	6.5	2
19	Effects of Receiver Parameters on Solar Flux Distribution for Triangle Cavity Receiver in the Fixed Linear-Focus Fresnel Lens Solar Concentrator. <i>Sustainability</i> , 2021 , 13, 6139	3.6	2
18	Tetra-Fish-Inspired aesthetic thermochromic windows toward Energy-Saving buildings. <i>Applied Energy</i> , 2022 , 315, 119053	10.7	2
17	Experimentally diagnosing the shading impact on the power performance of a PV system in Hong Kong 2013 ,		1
16	Seismic and Power Generation Performance of U-Shaped Steel Connected PV-Shear Wall under Lateral Cyclic Loading. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-15	2.1	1
15	Testing of a low resistance CICC joint for a 50 kA superconducting transformer. <i>Superconductor Science and Technology</i> , 2010 , 23, 095005	3.1	1
14	Analysis of Energy Utilization on Digestion Biogas Tri-Generation in Sewage Treatment Works. <i>Lecture Notes in Electrical Engineering</i> , 2014 , 27-35	0.2	1
13	Development of a quartz crystal microbalance diagnostic for measuring material erosion and deposition on the first wall in EAST. <i>Review of Scientific Instruments</i> , 2020 , 91, 076101	1.7	1

12	Measurements of neutral particle energy spectrum on EAST using a time-of-flight low-energy neutral particle analyzer. <i>Review of Scientific Instruments</i> , 2021 , 92, 063507	1.7	1
11	Quantitative effects of PM concentrations on spectral distribution of global normal irradiance. <i>Solar Energy</i> , 2021 , 220, 1099-1108	6.8	1
10	Numerical heat transfer modeling and climate adaptation analysis of vacuum-photovoltaic glazing. <i>Applied Energy</i> , 2022 , 312, 118747	10.7	1
9	A comparative study on bifacial photovoltaic/thermal modules with various cooling methods. <i>Energy Conversion and Management</i> , 2022 , 263, 115555	10.6	1
8	Capacity configuration of distributed photovoltaic and battery system for office buildings considering uncertainties. <i>Applied Energy</i> , 2022 , 319, 119243	10.7	1
7	Experimental study on energy consumption and thermal environment of radiant ceiling heating system for different types of rooms. <i>Energy</i> , 2021 , 244, 122555	7.9	0
6	Solar energy harvesting pavements on the road: comparative study and performance assessment. <i>Sustainable Cities and Society</i> , 2022 , 81, 103868	10.1	0
5	DeST 3.0: A new-generation building performance simulation platform. <i>Building Simulation</i> ,	3.9	0
4	Smart Windows: 3D Printed Smart Windows for Adaptive Solar Modulations (Advanced Optical Materials 11/2020). <i>Advanced Optical Materials</i> , 2020 , 8, 2070044	8.1	
3	Electromagnetic and Stress Analysis of 50 kA Superconducting Transformer for ITER Conductor Test Facility. <i>Plasma Science and Technology</i> , 2010 , 12, 506-512	1.5	
2	Parametric Study of the Impact of Venetian Blinds on Air-Conditioning Energy-Saving Potential for Residential Buildings. <i>Environmental Science and Engineering</i> , 2020 , 9-17	0.2	
1	Study on the comprehensive energy performance of different shading systems in China. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 556, 012039	0.4	