

# Jinqing Peng

## List of Publications by Year in descending order

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101  
papers

5,379  
citations

94269

37  
h-index

85405

71  
g-index

104  
all docs

104  
docs citations

104  
times ranked

4061  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	8.2	536
2	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.	4.3	304
3	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , 2015, 137, 649-659.	5.1	304
4	Liquid Thermo-Responsive Smart Window Derived from Hydrogel. <i>Joule</i> , 2020, 4, 2458-2474.	11.7	218
5	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.	5.1	197
6	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , 2015, 160, 728-736.	5.1	190
7	Energy consumption of cryptocurrency mining: A study of electricity consumption in mining cryptocurrencies. <i>Energy</i> , 2019, 168, 160-168.	4.5	162
8	Comparison of energy performance between PV double skin facades and PV insulating glass units. <i>Applied Energy</i> , 2017, 194, 148-160.	5.1	152
9	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.	8.2	130
10	Investigation on the annual thermal performance of a photovoltaic wall mounted on a multi-layer facade. <i>Applied Energy</i> , 2013, 112, 646-656.	5.1	129
11	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.	2.9	129
12	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019, 3, 858-871.	11.7	128
13	Nanofluid based photovoltaic thermal systems integrated with phase change materials: Numerical simulation and thermodynamic analysis. <i>Energy Conversion and Management</i> , 2020, 205, 112384.	4.4	122
14	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.	5.1	120
15	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.	2.9	96
16	A comprehensive review and outlook of bifacial photovoltaic (bPV) technology. <i>Energy Conversion and Management</i> , 2020, 223, 113283.	4.4	93
17	Study on the overall energy performance of a novel c-Si based semitransparent solar photovoltaic window. <i>Applied Energy</i> , 2019, 242, 854-872.	5.1	89
18	Techno-economic design optimization of hybrid renewable energy applications for high-rise residential buildings. <i>Energy Conversion and Management</i> , 2020, 213, 112868.	4.4	86

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19	Performance of ventilated double-sided PV façade compared with conventional clear glass façade. Energy and Buildings, 2013, 56, 204-209.	3.1	84
20	Estimation of Hong Kong's solar energy potential using GIS and remote sensing technologies. Renewable Energy, 2016, 99, 325-335.	4.3	84
21	Comparison of the overall energy performance of semi-transparent photovoltaic windows and common energy-efficient windows in Hong Kong. Energy and Buildings, 2016, 128, 511-518.	3.1	84
22	Evaluation of potential benefits of solar photovoltaic shadings in Hong Kong. Energy, 2017, 137, 1152-1158.	4.5	74
23	Assessment of energy performance of semi-transparent PV insulating glass units using a validated simulation model. Energy, 2016, 112, 538-548.	4.5	73
24	Field study on thermal comfort and energy saving potential in 11 split air-conditioned office buildings in Changsha, China. Energy, 2019, 182, 471-482.	4.5	73
25	Using an ensemble machine learning methodology-Bagging to predict occupants' thermal comfort in buildings. Energy and Buildings, 2018, 173, 117-127.	3.1	69
26	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. Energy and Buildings, 2020, 223, 110131.	3.1	65
27	Validation of the Sandia model with indoor and outdoor measurements for semi-transparent amorphous silicon PV modules. Renewable Energy, 2015, 80, 316-323.	4.3	61
28	Field study on adaptive comfort in air conditioned dormitories of university with hot-humid climate in summer. Energy and Buildings, 2016, 119, 1-12.	3.1	60
29	Adaptive thermal comfort in naturally ventilated dormitory buildings in Changsha, China. Energy and Buildings, 2019, 186, 56-70.	3.1	59
30	Energy planning of renewable applications in high-rise residential buildings integrating battery and hydrogen vehicle storage. Applied Energy, 2021, 281, 116038.	5.1	58
31	DeST 3.0: A new-generation building performance simulation platform. Building Simulation, 2022, 15, 1849-1868.	3.0	58
32	Energy optimization of high-rise commercial buildings integrated with photovoltaic facades in urban context. Energy, 2019, 172, 1-17.	4.5	57
33	Developing a method and simulation model for evaluating the overall energy performance of a ventilated semi-transparent photovoltaic double-skin facade. Progress in Photovoltaics: Research and Applications, 2016, 24, 781-799.	4.4	54
34	Comparative study of the dynamic programming-based and rule-based operation strategies for grid-connected PV-battery systems of office buildings. Applied Energy, 2022, 305, 117875.	5.1	53
35	Experimental study of internally cooled liquid desiccant dehumidification: Application in Hong Kong and intensive analysis of influencing factors. Building and Environment, 2015, 93, 210-220.	3.0	43
36	Overall and local thermal sensation & comfort in air-conditioned dormitory with hot-humid climate. Building and Environment, 2016, 101, 102-109.	3.0	40

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37	Approaching low-energy high-rise building by integrating passive architectural design with photovoltaic application. <i>Journal of Cleaner Production</i> , 2019, 220, 313-330.	4.6	40
38	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.	3.0	39
39	Comparison of different simplistic prediction models for forecasting PV power output: Assessment with experimental measurements. <i>Energy</i> , 2021, 224, 120162.	4.5	38
40	Optimal design of photovoltaic shading systems for multi-story buildings. <i>Journal of Cleaner Production</i> , 2019, 220, 1024-1038.	4.6	33
41	Study on the dynamic and thermal performances of a reversibly used cooling tower with upward spraying. <i>Energy</i> , 2016, 96, 268-277.	4.5	32
42	A review of currently applied building information modeling tools of constructions in China. <i>Journal of Cleaner Production</i> , 2018, 201, 358-368.	4.6	32
43	Performance comparisons of two flat-plate photovoltaic thermal collectors with different channel configurations. <i>Energy</i> , 2019, 175, 300-308.	4.5	31
44	Capacity configuration of distributed photovoltaic and battery system for office buildings considering uncertainties. <i>Applied Energy</i> , 2022, 319, 119243.	5.1	31
45	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.	5.1	29
46	Optimization of reversibly used cooling tower with downward spraying. <i>Energy</i> , 2017, 127, 30-43.	4.5	28
47	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.	5.1	28
48	3D Printed Smart Windows for Adaptive Solar Modulations. <i>Advanced Optical Materials</i> , 2020, 8, 2000013.	3.6	28
49	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.	3.0	26
50	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.	4.3	26
51	Solar energy integration in buildings. <i>Applied Energy</i> , 2020, 264, 114740.	5.1	25
52	Comparative study on the overall energy performance between photovoltaic and Low-E insulated glass units. <i>Solar Energy</i> , 2021, 214, 443-456.	2.9	23
53	A comparative study on bifacial photovoltaic/thermal modules with various cooling methods. <i>Energy Conversion and Management</i> , 2022, 263, 115555.	4.4	23
54	Experimental study of the film thickness in the dehumidifier of a liquid desiccant air conditioning system. <i>Energy</i> , 2015, 84, 239-246.	4.5	22

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55	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.	3.1	22
56	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, 1092.	1.2	21
57	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.	1.8	21
58	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.	3.0	21
59	A review for presenting building information modeling education and research in China. <i>Journal of Cleaner Production</i> , 2020, 259, 120885.	4.6	21
60	Creating alliesthesia in cool environments using personal comfort systems. <i>Building and Environment</i> , 2022, 209, 108642.	3.0	21
61	Solar energy harvesting pavements on the road: comparative study and performance assessment. <i>Sustainable Cities and Society</i> , 2022, 81, 103868.	5.1	21
62	An Optimization Sizing Model for Solar Photovoltaic Power Generation System with Pumped Storage. <i>Energy Procedia</i> , 2014, 61, 5-8.	1.8	20
63	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.	1.8	20
64	Tetra-Fish-Inspired aesthetic thermochromic windows toward Energy-Saving buildings. <i>Applied Energy</i> , 2022, 315, 119053.	5.1	19
65	Modeling the particle scavenging and thermal efficiencies of a heat absorbing scrubber. <i>Building and Environment</i> , 2017, 111, 218-227.	3.0	18
66	Study on Optimum Tilt Angles of Photovoltaic Shading Systems in Different Climatic Regions of China. <i>Procedia Engineering</i> , 2017, 205, 1157-1164.	1.2	18
67	Performance Analyses of Counter-Flow Closed Wet Cooling Towers Based on a Simplified Calculation Method. <i>Energies</i> , 2017, 10, 282.	1.6	17
68	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.	3.1	17
69	A new model to evaluate solar spectrum impacts on the short circuit current of solar photovoltaic modules. <i>Energy</i> , 2019, 169, 29-37.	4.5	16
70	Zero energy potential of photovoltaic direct-driven air conditioners with considering the load flexibility of air conditioners. <i>Applied Energy</i> , 2021, 304, 117821.	5.1	16
71	Overall energy assessment and integration optimization process of semitransparent PV glazing technologies. <i>Progress in Photovoltaics: Research and Applications</i> , 2018, 26, 473-490.	4.4	15
72	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.	3.1	15

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73	Experimental Study on Thermal Performance of Semi-transparent PV Window in Winter in Hong Kong. Energy Procedia, 2017, 105, 864-868.	1.8	14
74	Study of the application potential of photovoltaic direct-driven air conditioners in different climate zones. Energy and Buildings, 2020, 226, 110387.	3.1	14
75	Investigations on the Energy Efficiency of Stratified Air Distribution Systems with Different Diffuser Layouts. Sustainability, 2016, 8, 732.	1.6	13
76	Manufacturing of 50 kA superconducting transformer for ITER correction coil conductor test. Review of Scientific Instruments, 2010, 81, 044701.	0.6	11
77	Parametric study of the impact of window attachments on air conditioning energy consumption. Solar Energy, 2020, 202, 136-143.	2.9	11
78	Parametric study of venetian blinds for energy performance evaluation and classification in residential buildings. Energy, 2022, 239, 122266.	4.5	11
79	Numerical heat transfer modeling and climate adaptation analysis of vacuum-photovoltaic glazing. Applied Energy, 2022, 312, 118747.	5.1	10
80	Analysis of the Effect of the CaCl <sub>2</sub> Mass Fraction on the Efficiency of a Heat Pump Integrated Heat-Source Tower Using an Artificial Neural Network Model. Sustainability, 2016, 8, 410.	1.6	9
81	Quantitative effects of PM concentrations on spectral distribution of global normal irradiance. Solar Energy, 2021, 220, 1099-1108.	2.9	9
82	A highly efficient solution for thermal compensation of ground-coupled heat pump systems and waste heat recovery of kitchen exhaust air. Energy and Buildings, 2017, 138, 499-513.	3.1	8
83	Experimental study on energy consumption and thermal environment of radiant ceiling heating system for different types of rooms. Energy, 2022, 244, 122555.	4.5	8
84	Modeling and Optimization of a CoolingTower-Assisted Heat Pump System. Energies, 2017, 10, 733.	1.6	7
85	Simulation studies on advanced window technologies. Building Simulation, 2019, 12, 1-1.	3.0	6
86	Effects of Receiver Parameters on Solar Flux Distribution for Triangle Cavity Receiver in the Fixed Linear-Focus Fresnel Lens Solar Concentrator. Sustainability, 2021, 13, 6139.	1.6	6
87	The 50 kA Superconducting Transformer for Testing ITER CC Conductors Short Sample. IEEE Transactions on Applied Superconductivity, 2010, 20, 1155-1158.	1.1	5
88	Study on the Optimizing Operation of Exhaust Air Heat Recovery and Solar Energy Combined Thermal Compensation System for Ground-Coupled Heat Pump. International Journal of Photoenergy, 2017, 2017, 1-19.	1.4	4
89	Measurements of neutral particle energy spectrum on EAST using a time-of-flight low-energy neutral particle analyzer. Review of Scientific Instruments, 2021, 92, 063507.	0.6	4
90	The Design of Test Facility for ITER CC Conductor. IEEE Transactions on Applied Superconductivity, 2010, 20, 1973-1976.	1.1	3

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91	The cryogenic system for ITER CC superconducting conductor test facility. Cryogenics, 2011, 51, 62-67.	0.9	3
92	Experimentally diagnosing the shading impact on the power performance of a PV system in Hong Kong. , 2013, , .		3
93	Study on the Operation Strategy of Ventilated Photovoltaic Windows in Hot-Summer and Cold-Winter Zone in China. Procedia Engineering, 2017, 205, 2092-2099.	1.2	3
94	Development of a quartz crystal microbalance diagnostic for measuring material erosion and deposition on the first wall in EAST. Review of Scientific Instruments, 2020, 91, 076101.	0.6	3
95	Manufacture and Measurement of a Fifty Kilo-Ampere Superconducting Transformer for the ASIPP Conductor Test Facility. IEEE Transactions on Applied Superconductivity, 2012, 22, 5500404-5500404.	1.1	2
96	Seismic and Power Generation Performance of U-Shaped Steel Connected PV-Shear Wall under Lateral Cyclic Loading. International Journal of Photoenergy, 2014, 2014, 1-15.	1.4	2
97	Testing of a low resistance CICC joint for a 50 kA superconducting transformer. Superconductor Science and Technology, 2010, 23, 095005.	1.8	1
98	Electromagnetic and Stress Analysis of 50 kA Superconducting Transformer for ITER Conductor Test Facility. Plasma Science and Technology, 2010, 12, 506-512.	0.7	0
99	Study on the comprehensive energy performance of different shading systems in China. IOP Conference Series: Materials Science and Engineering, 2019, 556, 012039.	0.3	0
100	Smart Windows: 3D Printed Smart Windows for Adaptive Solar Modulations (Advanced Optical) Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 3	3.6	0
101	Parametric Study of the Impact of Venetian Blinds on Air-Conditioning Energy-Saving Potential for Residential Buildings. Environmental Science and Engineering, 2020, , 9-17.	0.1	0