

Tao

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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.

89
papers

3,990
citations

33
h-index

62
g-index

93
ext. papers

5,352
ext. citations

8.7
avg, IF

6.59
L-index

#	Paper	IF	Citations
89	A feasibility study of a stand-alone hybrid solar-wind-battery system for a remote island. <i>Applied Energy</i> , 2014 , 121, 149-158	10.7	366
88	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
87	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , 2015 , 137, 649-659	10.7	223
86	Using phase change materials in photovoltaic systems for thermal regulation and electrical efficiency improvement: A review and outlook. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 43, 1273-1284	16.2	221
85	Feasibility study and economic analysis of pumped hydro storage and battery storage for a renewable energy powered island. <i>Energy Conversion and Management</i> , 2014 , 79, 387-397	10.6	192
84	Development of a model to simulate the performance characteristics of crystalline silicon photovoltaic modules/strings/arrays. <i>Solar Energy</i> , 2014 , 100, 31-41	6.8	168
83	Development of hybrid battery-supercapacitor energy storage for remote area renewable energy systems. <i>Applied Energy</i> , 2015 , 153, 56-62	10.7	157
82	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , 2015 , 160, 728-736	10.7	134
81	Solar photovoltaic system modeling and performance prediction. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 36, 304-315	16.2	134
80	Integrated sizing of hybrid PV-wind-battery system for remote island considering the saturation of each renewable energy resource. <i>Energy Conversion and Management</i> , 2019 , 182, 178-190	10.6	123
79	Solar and wind power generation systems with pumped hydro storage: Review and future perspectives. <i>Renewable Energy</i> , 2020 , 148, 176-192	8.1	104
78	Solar heating and cooling: Present and future development. <i>Renewable Energy</i> , 2018 , 126, 1126-1140	8.1	99
77	Techno-economic assessment of a stand-alone hybrid solar-wind-battery system for a remote island using genetic algorithm. <i>Energy</i> , 2019 , 176, 704-717	7.9	98
76	Comparative study of the thermal and power performances of a semi-transparent photovoltaic façade under different ventilation modes. <i>Applied Energy</i> , 2015 , 138, 572-583	10.7	94
75	Numerical investigation and parametric analysis of a photovoltaic thermal system integrated with phase change material. <i>Applied Energy</i> , 2019 , 238, 734-746	10.7	86
74	Performance evaluation of a stand-alone photovoltaic system on an isolated island in Hong Kong. <i>Applied Energy</i> , 2013 , 112, 663-672	10.7	84
73	Experimental study and performance analysis on solar photovoltaic panel integrated with phase change material. <i>Energy</i> , 2019 , 178, 471-486	7.9	75

72	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
71	Hybrid pumped hydro and battery storage for renewable energy based power supply system. <i>Applied Energy</i> , 2020 , 257, 114026	10.7	64
70	Mathematical modelling and sensitivity analysis of solar photovoltaic panel integrated with phase change material. <i>Applied Energy</i> , 2018 , 228, 1147-1158	10.7	61
69	Photovoltaic panel integrated with phase change materials (PV-PCM): technology overview and materials selection. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 116, 109406	16.2	58
68	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
67	Optimal hybrid pumped hydro-battery storage scheme for off-grid renewable energy systems. <i>Energy Conversion and Management</i> , 2019 , 199, 112046	10.6	47
66	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
65	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
64	Study on stand-alone power supply options for an isolated community. <i>International Journal of Electrical Power and Energy Systems</i> , 2015 , 65, 1-11	5.1	45
63	Photovoltaic thermal module and solar thermal collector connected in series to produce electricity and high-grade heat simultaneously. <i>Applied Energy</i> , 2020 , 261, 114380	10.7	43
62	An energy system model for Hong Kong in 2020. <i>Energy</i> , 2014 , 68, 301-310	7.9	42
61	An improved and comprehensive mathematical model for solar photovoltaic modules under real operating conditions. <i>Solar Energy</i> , 2019 , 184, 292-304	6.8	40
60	Mathematical modelling and performance evaluation of a hybrid photovoltaic-thermoelectric system. <i>Energy Conversion and Management</i> , 2019 , 198, 111800	10.6	39
59	Economic analysis and optimization of a renewable energy based power supply system with different energy storages for a remote island. <i>Renewable Energy</i> , 2021 , 164, 1376-1394	8.1	39
58	Long term performance analysis of a standalone photovoltaic system under real conditions. <i>Applied Energy</i> , 2017 , 201, 320-331	10.7	34
57	Development of walkable photovoltaic floor tiles used for pavement. <i>Energy Conversion and Management</i> , 2019 , 183, 764-771	10.6	33
56	A coupled optical-electrical-thermal model of the bifacial photovoltaic module. <i>Applied Energy</i> , 2020 , 258, 114075	10.7	33
55	Year-round performance analysis of a photovoltaic panel coupled with phase change material. <i>Applied Energy</i> , 2019 , 245, 51-64	10.7	32

54	Techno-economic assessment of a hybrid solar-wind-battery system with genetic algorithm. <i>Energy Procedia</i> , 2019 , 158, 6384-6392	2.3	31
53	A techno-economic sizing method for grid-connected household photovoltaic battery systems. <i>Applied Energy</i> , 2020 , 269, 115106	10.7	31
52	Photovoltaic thermal module and solar thermal collector connected in series: Energy and exergy analysis. <i>Energy Conversion and Management</i> , 2020 , 206, 112479	10.6	28
51	Peer-to-peer electricity trading in grid-connected residential communities with household distributed photovoltaic. <i>Applied Energy</i> , 2020 , 278, 115670	10.7	28
50	Semi-3D transient simulation of a nanofluid-base photovoltaic thermal system integrated with a thermoelectric generator. <i>Energy Conversion and Management</i> , 2020 , 220, 113073	10.6	27
49	A comprehensive review and outlook of bifacial photovoltaic (bPV) technology. <i>Energy Conversion and Management</i> , 2020 , 223, 113283	10.6	25
48	Optimization of a residential district with special consideration on energy and water reliability. <i>Applied Energy</i> , 2017 , 194, 751-764	10.7	21
47	Performance prediction and optimization of a photovoltaic thermal system integrated with phase change material using response surface method. <i>Journal of Cleaner Production</i> , 2021 , 290, 125748	10.3	21
46	Coupled electrical-thermal modelling of photovoltaic modules under dynamic conditions. <i>Energy</i> , 2019 , 188, 116043	7.9	20
45	A year-round study of a photovoltaic thermal system integrated with phase change material in Shanghai using transient model. <i>Energy Conversion and Management</i> , 2020 , 210, 112657	10.6	20
44	Prefeasibility study of a distributed photovoltaic system with pumped hydro storage for residential buildings. <i>Energy Conversion and Management</i> , 2020 , 222, 113199	10.6	20
43	Performance comparison of heuristic algorithms for optimization of hybrid off-grid renewable energy systems. <i>Energy</i> , 2020 , 210, 118599	7.9	19
42	Analysis of the power loss and quantification of the energy distribution in PV module. <i>Applied Energy</i> , 2020 , 260, 114333	10.7	17
41	Performance optimization of a nanofluid-based photovoltaic thermal system integrated with nano-enhanced phase change material. <i>Applied Energy</i> , 2021 , 295, 116859	10.7	17
40	Thermal management of the waste energy of a stand-alone hybrid PV-wind-battery power system in Hong Kong. <i>Energy Conversion and Management</i> , 2020 , 203, 112261	10.6	16
39	Perspectives on industrialized transportable solar powered zero energy buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 108, 112-124	16.2	15
38	Numerical and experimental investigation of precast concrete facade integrated with solar photovoltaic panels. <i>Applied Energy</i> , 2019 , 253, 113509	10.7	15
37	Development of inline hydroelectric generation system from municipal water pipelines. <i>Energy</i> , 2018 , 144, 535-548	7.9	14

36	An Optimization Sizing Model for Solar Photovoltaic Power Generation System with Pumped Storage. <i>Energy Procedia</i> , 2014 , 61, 5-8	2.3	14
35	Comparative life cycle assessment of various energy efficiency designs of a container-based housing unit in China: A case study. <i>Building and Environment</i> , 2020 , 186, 107358	6.5	14
34	Optimization of a novel photovoltaic thermal module in series with a solar collector using Taguchi based grey relational analysis. <i>Solar Energy</i> , 2021 , 215, 492-507	6.8	13
33	A review on the integration of radiative cooling and solar energy harvesting. <i>Materials Today Energy</i> , 2021 , 21, 100776	7	13
32	Performance analysis of a photovoltaic panel integrated with phase change material. <i>Energy Procedia</i> , 2019 , 158, 1093-1098	2.3	12
31	A Parametric Study about the Potential to Integrate Phase Change Material into Photovoltaic Panel. <i>Energy Procedia</i> , 2017 , 142, 648-654	2.3	11
30	A hybrid method for scenario-based techno-economic-environmental analysis of off-grid renewable energy systems. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 139, 110725	16.2	11
29	Optimization and performance investigation of the solidification behavior of nano-enhanced phase change materials in triplex-tube and shell-and-tube energy storage units. <i>Journal of Energy Storage</i> , 2021 , 33, 102055	7.8	11
28	Thermal management of building-integrated photovoltaic/thermal systems: A comprehensive review. <i>Solar Energy</i> , 2021 , 216, 188-210	6.8	10
27	Numerical simulation of a novel pavement integrated photovoltaic thermal (PIPVT) module. <i>Applied Energy</i> , 2021 , 283, 116287	10.7	9
26	Transparent and Colored Solar Photovoltaics for Building Integration. <i>Solar Rrl</i> , 2021 , 5, 2000614	7.1	9
25	A comparative performance evaluation and sensitivity analysis of a photovoltaic-thermal system with radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 221, 110861	6.4	8
24	General method to obtain recommended tilt and azimuth angles for photovoltaic systems worldwide. <i>Solar Energy</i> , 2018 , 172, 46-57	6.8	7
23	Investigating the Effect of Radiative Cooling on the Operating Temperature of Photovoltaic Modules. <i>Solar Rrl</i> , 2021 , 5, 2000735	7.1	7
22	Performance modelling of photovoltaic modules under actual operating conditions considering loss mechanism and energy distribution. <i>Applied Energy</i> , 2021 , 298, 117205	10.7	6
21	Parametric investigation of photovoltaic-thermal systems integrated with porous phase change material. <i>Applied Thermal Engineering</i> , 2021 , 201, 117727	5.8	5
20	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
19	The viability of solar photovoltaic powered off-grid Zero Energy Buildings based on a container home. <i>Journal of Cleaner Production</i> , 2021 , 286, 125312	10.3	5

18	Experimental investigation of the bifacial photovoltaic module under real conditions. <i>Renewable Energy</i> , 2021 , 173, 1111-1122	8.1	4
17	Green retrofit of existing residential buildings in China: An investigation on residents' perceptions. <i>Energy and Environment</i> , 0958305X2199804	2.4	4
16	Spatial Optimization of Residential Urban District - Energy and Water Perspectives. <i>Energy Procedia</i> , 2016 , 88, 38-43	2.3	3
15	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
14	Feasibility Study of Developing a Zero-carbon-emission Green Deck in Hong Kong. <i>Energy Procedia</i> , 2017 , 105, 1155-1159	2.3	2
13	Building integrated pumped-storage potential on a city scale: An analysis based on geographic information systems. <i>Energy</i> , 2022 , 242, 122966	7.9	2
12	Deposition characteristics of particles in inclined heat exchange channel with surface ribs. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 161, 120289	4.9	2
11	Long Term Performance Analysis of a 19.8kWp Standalone Photovoltaic System in a Remote Island. <i>Energy Procedia</i> , 2016 , 103, 183-188	2.3	2
10	Solar photovoltaic system under partial shading and perspectives on maximum utilization of the shaded land. <i>International Journal of Green Energy</i> , 1-12	3	2
9	Life-cycle evaluation of different types of cooling systems in buildings. <i>Energy Procedia</i> , 2017 , 142, 1743-1748	13.48	1
8	Pavement integrated photovoltaic thermal (PIPVT) system: A temporal and spatial analysis of energy and exergy performance. <i>Journal of Cleaner Production</i> , 2022 , 340, 130782	10.3	1
7	Enhanced radiative cooling of solar cells by integration with heat pipe. <i>Applied Energy</i> , 2022 , 308, 118363	10.7	1
6	Quantifying techno-economic indicators' impact on isolated renewable energy systems. <i>IScience</i> , 2021 , 24, 102730	6.1	1
5	Application of hybrid nanofluids in a novel combined photovoltaic/thermal and solar collector system. <i>Solar Energy</i> , 2022 , 239, 102-116	6.8	1
4	Quantitative evaluation of renewable-energy-based remote microgrids: curtailment, load shifting, and reliability. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 164, 112516	16.2	1
3	Distributed photovoltaics with peer-to-peer electricity trading. <i>Energy and Built Environment</i> , 2021 , e001614	1.4	0
2	Study of Building Demand Response Method Based on Indoor Temperature Setpoint Control of VRV Air Conditioning. <i>Buildings</i> , 2022 , 12, 415	3.2	0
1	Solar energy harvesting pavements on the road: comparative study and performance assessment. <i>Sustainable Cities and Society</i> , 2022 , 81, 103868	10.1	0

