

# Tao

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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	Pavement integrated photovoltaic thermal (PIPVT) system: A temporal and spatial analysis of energy and exergy performance. <i>Journal of Cleaner Production</i> , <b>2022</b> , 340, 130782	10.3	1
88	Enhanced radiative cooling of solar cells by integration with heat pipe. <i>Applied Energy</i> , <b>2022</b> , 308, 118363	10.7	1
87	Building integrated pumped-storage potential on a city scale: An analysis based on geographic information systems. <i>Energy</i> , <b>2022</b> , 242, 122966	7.9	2
86	Study of Building Demand Response Method Based on Indoor Temperature Setpoint Control of VRV Air Conditioning. <i>Buildings</i> , <b>2022</b> , 12, 415	3.2	0
85	Solar energy harvesting pavements on the road: comparative study and performance assessment. <i>Sustainable Cities and Society</i> , <b>2022</b> , 81, 103868	10.1	0
84	Application of hybrid nanofluids in a novel combined photovoltaic/thermal and solar collector system. <i>Solar Energy</i> , <b>2022</b> , 239, 102-116	6.8	1
83	Quantitative evaluation of renewable-energy-based remote microgrids: curtailment, load shifting, and reliability. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 164, 112516	16.2	1
82	Parametric investigation of photovoltaic-thermal systems integrated with porous phase change material. <i>Applied Thermal Engineering</i> , <b>2021</b> , 201, 117727	5.8	5
81	Thermal management of building-integrated photovoltaic/thermal systems: A comprehensive review. <i>Solar Energy</i> , <b>2021</b> , 216, 188-210	6.8	10
80	Investigating the Effect of Radiative Cooling on the Operating Temperature of Photovoltaic Modules. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000735	7.1	7
79	A hybrid method for scenario-based techno-economic-environmental analysis of off-grid renewable energy systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 139, 110725	16.2	11
78	Distributed photovoltaics with peer-to-peer electricity trading. <i>Energy and Built Environment</i> , <b>2021</b> , e00114	11.4	0
77	Quantifying techno-economic indicators' impact on isolated renewable energy systems. <i>IScience</i> , <b>2021</b> , 24, 102730	6.1	1
76	Numerical simulation of a novel pavement integrated photovoltaic thermal (PIPVT) module. <i>Applied Energy</i> , <b>2021</b> , 283, 116287	10.7	9
75	A comparative performance evaluation and sensitivity analysis of a photovoltaic-thermal system with radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 221, 110861	6.4	8
74	Economic analysis and optimization of a renewable energy based power supply system with different energy storages for a remote island. <i>Renewable Energy</i> , <b>2021</b> , 164, 1376-1394	8.1	39
73	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> , <b>2021</b> , 33, 102055	7.8	11

72	The viability of solar photovoltaic powered off-grid Zero Energy Buildings based on a container home. <i>Journal of Cleaner Production</i> , <b>2021</b> , 286, 125312	10.3	5
71	Experimental investigation of the bifacial photovoltaic module under real conditions. <i>Renewable Energy</i> , <b>2021</b> , 173, 1111-1122	8.1	4
70	Transparent and Colored Solar Photovoltaics for Building Integration. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000614	7.1	9
69	Optimization of a novel photovoltaic thermal module in series with a solar collector using Taguchi based grey relational analysis. <i>Solar Energy</i> , <b>2021</b> , 215, 492-507	6.8	13
68	Performance prediction and optimization of a photovoltaic thermal system integrated with phase change material using response surface method. <i>Journal of Cleaner Production</i> , <b>2021</b> , 290, 125748	10.3	21
67	Performance optimization of a nanofluid-based photovoltaic thermal system integrated with nano-enhanced phase change material. <i>Applied Energy</i> , <b>2021</b> , 295, 116859	10.7	17
66	Performance modelling of photovoltaic modules under actual operating conditions considering loss mechanism and energy distribution. <i>Applied Energy</i> , <b>2021</b> , 298, 117205	10.7	6
65	A review on the integration of radiative cooling and solar energy harvesting. <i>Materials Today Energy</i> , <b>2021</b> , 21, 100776	7	13
64	Zero energy potential of photovoltaic direct-driven air conditioners with considering the load flexibility of air conditioners. <i>Applied Energy</i> , <b>2021</b> , 304, 117821	10.7	3
63	A techno-economic sizing method for grid-connected household photovoltaic battery systems. <i>Applied Energy</i> , <b>2020</b> , 269, 115106	10.7	31
62	Energy, exergy and environmental analysis of glazed and unglazed PVT system integrated with phase change material: An experimental approach. <i>Solar Energy</i> , <b>2020</b> , 201, 178-189	6.8	46
61	Semi-3D transient simulation of a nanofluid-base photovoltaic thermal system integrated with a thermoelectric generator. <i>Energy Conversion and Management</i> , <b>2020</b> , 220, 113073	10.6	27
60	Photovoltaic thermal module and solar thermal collector connected in series: Energy and exergy analysis. <i>Energy Conversion and Management</i> , <b>2020</b> , 206, 112479	10.6	28
59	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> , <b>2020</b> , 210, 112657	10.6	20
58	Analysis of the power loss and quantification of the energy distribution in PV module. <i>Applied Energy</i> , <b>2020</b> , 260, 114333	10.7	17
57	Photovoltaic thermal module and solar thermal collector connected in series to produce electricity and high-grade heat simultaneously. <i>Applied Energy</i> , <b>2020</b> , 261, 114380	10.7	43
56	A coupled optical-electrical-thermal model of the bifacial photovoltaic module. <i>Applied Energy</i> , <b>2020</b> , 258, 114075	10.7	33
55	Solar and wind power generation systems with pumped hydro storage: Review and future perspectives. <i>Renewable Energy</i> , <b>2020</b> , 148, 176-192	8.1	104

54	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> , <b>2020</b> , 203, 112261	10.6	16
53	Nanofluid based photovoltaic thermal systems integrated with phase change materials: Numerical simulation and thermodynamic analysis. <i>Energy Conversion and Management</i> , <b>2020</b> , 205, 112384	10.6	67
52	Performance comparison of heuristic algorithms for optimization of hybrid off-grid renewable energy systems. <i>Energy</i> , <b>2020</b> , 210, 118599	7.9	19
51	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> , <b>2020</b> , 186, 107358	6.5	14
50	Prefeasibility study of a distributed photovoltaic system with pumped hydro storage for residential buildings. <i>Energy Conversion and Management</i> , <b>2020</b> , 222, 113199	10.6	20
49	Study of the application potential of photovoltaic direct-driven air conditioners in different climate zones. <i>Energy and Buildings</i> , <b>2020</b> , 226, 110387	7	5
48	A comprehensive review and outlook of bifacial photovoltaic (bPV) technology. <i>Energy Conversion and Management</i> , <b>2020</b> , 223, 113283	10.6	25
47	Deposition characteristics of particles in inclined heat exchange channel with surface ribs. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 161, 120289	4.9	2
46	Peer-to-peer electricity trading in grid-connected residential communities with household distributed photovoltaic. <i>Applied Energy</i> , <b>2020</b> , 278, 115670	10.7	28
45	Hybrid pumped hydro and battery storage for renewable energy based power supply system. <i>Applied Energy</i> , <b>2020</b> , 257, 114026	10.7	64
44	Coupled electrical-thermal modelling of photovoltaic modules under dynamic conditions. <i>Energy</i> , <b>2019</b> , 188, 116043	7.9	20
43	Techno-economic assessment of a hybrid solar-wind-battery system with genetic algorithm. <i>Energy Procedia</i> , <b>2019</b> , 158, 6384-6392	2.3	31
42	Performance analysis of a photovoltaic panel integrated with phase change material. <i>Energy Procedia</i> , <b>2019</b> , 158, 1093-1098	2.3	12
41	Photovoltaic panel integrated with phase change materials (PV-PCM): technology overview and materials selection. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 116, 109406	16.2	58
40	Numerical investigation and parametric analysis of a photovoltaic thermal system integrated with phase change material. <i>Applied Energy</i> , <b>2019</b> , 238, 734-746	10.7	86
39	Experimental study and performance analysis on solar photovoltaic panel integrated with phase change material. <i>Energy</i> , <b>2019</b> , 178, 471-486	7.9	75
38	Perspectives on industrialized transportable solar powered zero energy buildings. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 108, 112-124	16.2	15
37	Techno-economic assessment of a stand-alone hybrid solar-wind-battery system for a remote island using genetic algorithm. <i>Energy</i> , <b>2019</b> , 176, 704-717	7.9	98

36	Year-round performance analysis of a photovoltaic panel coupled with phase change material. <i>Applied Energy</i> , <b>2019</b> , 245, 51-64	10.7	32
35	An improved and comprehensive mathematical model for solar photovoltaic modules under real operating conditions. <i>Solar Energy</i> , <b>2019</b> , 184, 292-304	6.8	40
34	Development of walkable photovoltaic floor tiles used for pavement. <i>Energy Conversion and Management</i> , <b>2019</b> , 183, 764-771	10.6	33
33	Numerical and experimental investigation of precast concrete facade integrated with solar photovoltaic panels. <i>Applied Energy</i> , <b>2019</b> , 253, 113509	10.7	15
32	Mathematical modelling and performance evaluation of a hybrid photovoltaic-thermoelectric system. <i>Energy Conversion and Management</i> , <b>2019</b> , 198, 111800	10.6	39
31	Optimal hybrid pumped hydro-battery storage scheme for off-grid renewable energy systems. <i>Energy Conversion and Management</i> , <b>2019</b> , 199, 112046	10.6	47
30	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> , <b>2019</b> , 182, 178-190	10.6	123
29	Development of inline hydroelectric generation system from municipal water pipelines. <i>Energy</i> , <b>2018</b> , 144, 535-548	7.9	14
28	Solar heating and cooling: Present and future development. <i>Renewable Energy</i> , <b>2018</b> , 126, 1126-1140	8.1	99
27	General method to obtain recommended tilt and azimuth angles for photovoltaic systems worldwide. <i>Solar Energy</i> , <b>2018</b> , 172, 46-57	6.8	7
26	Mathematical modelling and sensitivity analysis of solar photovoltaic panel integrated with phase change material. <i>Applied Energy</i> , <b>2018</b> , 228, 1147-1158	10.7	61
25	Feasibility Study of Developing a Zero-carbon-emission Green Deck in Hong Kong. <i>Energy Procedia</i> , <b>2017</b> , 105, 1155-1159	2.3	2
24	Optimization of a residential district with special consideration on energy and water reliability. <i>Applied Energy</i> , <b>2017</b> , 194, 751-764	10.7	21
23	Long term performance analysis of a standalone photovoltaic system under real conditions. <i>Applied Energy</i> , <b>2017</b> , 201, 320-331	10.7	34
22	A Parametric Study about the Potential to Integrate Phase Change Material into Photovoltaic Panel. <i>Energy Procedia</i> , <b>2017</b> , 142, 648-654	2.3	11
21	Life-cycle evaluation of different types of cooling systems in buildings. <i>Energy Procedia</i> , <b>2017</b> , 142, 1743-1748	2.3	1
20	Spatial Optimization of Residential Urban District - Energy and Water Perspectives. <i>Energy Procedia</i> , <b>2016</b> , 88, 38-43	2.3	3
19	Long Term Performance Analysis of a 19.8kWp Standalone Photovoltaic System in a Remote Island. <i>Energy Procedia</i> , <b>2016</b> , 103, 183-188	2.3	2

18	Assessment of energy performance of semi-transparent PV insulating glass units using a validated simulation model. <i>Energy</i> , <b>2016</b> , 112, 538-548	7.9	52
17	Comparative study of the thermal and power performances of a semi-transparent photovoltaic façade under different ventilation modes. <i>Applied Energy</i> , <b>2015</b> , 138, 572-583	10.7	94
16	Validation of the Sandia model with indoor and outdoor measurements for semi-transparent amorphous silicon PV modules. <i>Renewable Energy</i> , <b>2015</b> , 80, 316-323	8.1	46
15	Development of hybrid battery-supercapacitor energy storage for remote area renewable energy systems. <i>Applied Energy</i> , <b>2015</b> , 153, 56-62	10.7	157
14	Optimal design of an autonomous solar-wind-pumped storage power supply system. <i>Applied Energy</i> , <b>2015</b> , 160, 728-736	10.7	134
13	Study on stand-alone power supply options for an isolated community. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2015</b> , 65, 1-11	5.1	45
12	Pumped storage-based standalone photovoltaic power generation system: Modeling and techno-economic optimization. <i>Applied Energy</i> , <b>2015</b> , 137, 649-659	10.7	223
11	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> , <b>2015</b> , 43, 1273-1284	16.2	221
10	Feasibility study and economic analysis of pumped hydro storage and battery storage for a renewable energy powered island. <i>Energy Conversion and Management</i> , <b>2014</b> , 79, 387-397	10.6	192
9	A feasibility study of a stand-alone hybrid solar-wind-battery system for a remote island. <i>Applied Energy</i> , <b>2014</b> , 121, 149-158	10.7	366
8	Development of a model to simulate the performance characteristics of crystalline silicon photovoltaic modules/strings/arrays. <i>Solar Energy</i> , <b>2014</b> , 100, 31-41	6.8	168
7	An energy system model for Hong Kong in 2020. <i>Energy</i> , <b>2014</b> , 68, 301-310	7.9	42
6	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> , <b>2014</b> , 69, 7-15	8.1	224
5	Solar photovoltaic system modeling and performance prediction. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 36, 304-315	16.2	134
4	An Optimization Sizing Model for Solar Photovoltaic Power Generation System with Pumped Storage. <i>Energy Procedia</i> , <b>2014</b> , 61, 5-8	2.3	14
3	Performance evaluation of a stand-alone photovoltaic system on an isolated island in Hong Kong. <i>Applied Energy</i> , <b>2013</b> , 112, 663-672	10.7	84
2	Green retrofit of existing residential buildings in China: An investigation on residents' perceptions. <i>Energy and Environment</i> , 0958305X2199804	2.4	4
1	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

