

Wei He

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,504
citations

101384

36
h-index

143772

57
g-index

60
all docs

60
docs citations

60
times ranked

2652
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent development and application of thermoelectric generator and cooler. <i>Applied Energy</i> , 2015, 143, 1-25.	5.1	602
2	Hybrid photovoltaic and thermal solar-collector designed for natural circulation of water. <i>Applied Energy</i> , 2006, 83, 199-210.	5.1	266
3	A sensitivity study of a hybrid photovoltaic/thermal water-heating system with natural circulation. <i>Applied Energy</i> , 2007, 84, 222-237.	5.1	244
4	A review on the application of Trombe wall system in buildings. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 976-987.	8.2	202
5	Distributed dynamic modeling and experimental study of PV evaporator in a PV/T solar-assisted heat pump. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1365-1373.	2.5	196
6	Performance analysis of a photovoltaic heat pump. <i>Applied Energy</i> , 2008, 85, 680-693.	5.1	138
7	Performance analysis on a solar concentrating thermoelectric generator using the micro-channel heat pipe array. <i>Energy Conversion and Management</i> , 2016, 112, 191-198.	4.4	138
8	Performance of PV-Trombe wall in winter correlated with south facade design. <i>Applied Energy</i> , 2011, 88, 224-231.	5.1	137
9	Comparative experiment study on photovoltaic and thermal solar system under natural circulation of water. <i>Applied Thermal Engineering</i> , 2011, 31, 3369-3376.	3.0	125
10	A study on incorporation of thermoelectric modules with evacuated-tube heat-pipe solar collectors. <i>Renewable Energy</i> , 2012, 37, 142-149.	4.3	125
11	Theoretical and experimental investigation on a thermoelectric cooling and heating system driven by solar. <i>Applied Energy</i> , 2013, 107, 89-97.	5.1	125
12	Numerical simulation and experimental validation of tri-functional photovoltaic/thermal solar collector. <i>Energy</i> , 2015, 87, 470-480.	4.5	108
13	Comparative study on the annual performance of three types of building integrated photovoltaic (BIPV) Trombe wall system. <i>Applied Energy</i> , 2017, 194, 81-93.	5.1	103
14	Effect of fluid flow and packing factor on energy performance of a wall-mounted hybrid photovoltaic/water-heating collector system. <i>Energy and Buildings</i> , 2006, 38, 1380-1387.	3.1	102
15	Study of different heat exchange technologies influence on the performance of thermoelectric generators. <i>Energy Conversion and Management</i> , 2018, 156, 167-177.	4.4	100
16	Parametrical analysis of the design and performance of a solar heat pipe thermoelectric generator unit. <i>Applied Energy</i> , 2011, 88, 5083-5089.	5.1	94
17	Dynamic performance of hybrid photovoltaic/thermal collector wall in Hong Kong. <i>Building and Environment</i> , 2003, 38, 1327-1334.	3.0	91
18	Three-dimensional simulation on the thermal performance of a novel Trombe wall with venetian blind structure. <i>Energy and Buildings</i> , 2015, 89, 32-38.	3.1	90

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19	Design, construction and performance testing of a PV blind-integrated Trombe wall module. Applied Energy, 2017, 203, 643-656.	5.1	81
20	Experimental investigation of tri-functional photovoltaic/thermal solar collector. Energy Conversion and Management, 2014, 88, 650-656.	4.4	78
21	Experimental and numerical performance analysis of a TC-Trombe wall. Applied Energy, 2017, 206, 70-82.	5.1	76
22	Experimental study and performance analysis of a thermoelectric cooling and heating system driven by a photovoltaic/thermal system in summer and winter operation modes. Energy Conversion and Management, 2014, 84, 41-49.	4.4	75
23	The thermal behavior of Trombe wall system with venetian blind: An experimental and numerical study. Energy and Buildings, 2015, 104, 395-404.	3.1	74
24	The performance analysis of a novel TC-Trombe wall system in heating seasons. Energy Conversion and Management, 2018, 164, 242-261.	4.4	68
25	Performance of multi-functional domestic heat-pump system. Applied Energy, 2005, 80, 307-326.	5.1	67
26	Study on a high-performance photocatalytic-Trombe wall system for space heating and air purification. Applied Energy, 2018, 226, 365-380.	5.1	67
27	Thermal characteristics of a building-integrated dual-function solar collector in water heating mode with natural circulation. Energy, 2011, 36, 566-574.	4.5	66
28	Operational performance of a novel heat pump assisted solar facade loop-heat-pipe water heating system. Applied Energy, 2015, 146, 371-382.	5.1	60
29	Active Solar Thermal Facades (ASTFs): From concept, application to research questions. Renewable and Sustainable Energy Reviews, 2015, 50, 32-63.	8.2	58
30	Effective use of venetian blind in Trombe wall for solar space conditioning control. Applied Energy, 2019, 250, 452-460.	5.1	57
31	Numerical analysis on the cooling performance of a ventilated Trombe wall combined with venetian blinds in an office building. Energy and Buildings, 2016, 126, 14-27.	3.1	50
32	Performance study on a novel hybrid solar gradient utilization system for combined photocatalytic oxidation technology and photovoltaic/thermal technology. Applied Energy, 2018, 215, 699-716.	5.1	49
33	High-performance terrestrial solar thermoelectric generators without optical concentration for residential and commercial rooftops. Energy Conversion and Management, 2019, 196, 69-76.	4.4	47
34	Study on a high-performance solar thermoelectric system for combined heat and power. Energy Conversion and Management, 2017, 143, 459-469.	4.4	45
35	PV-Trombe Wall Design for Buildings in Composite Climates. Journal of Solar Energy Engineering, Transactions of the ASME, 2007, 129, 431-437.	1.1	41
36	Performance analysis on a novel micro-channel heat pipe evacuated tube solar collector-incorporated thermoelectric generation. International Journal of Energy Research, 2016, 40, 2117-2127.	2.2	40

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37	Theoretical investigation of the thermal performance of a novel solar loop-heat-pipe faÅšade-based heat pump water heating system. <i>Energy and Buildings</i> , 2014, 77, 180-191.	3.1	34
38	Parallel experimental study of a novel super-thin thermal absorber based photovoltaic/thermal (PV/T) system against conventional photovoltaic (PV) system. <i>Energy Reports</i> , 2015, 1, 30-35.	2.5	34
39	Thermal and hydraulic analysis on a novel Trombe wall with venetian blind structure. <i>Energy and Buildings</i> , 2016, 123, 50-58.	3.1	34
40	Analysis and discussion on the impact of non-uniform input heat flux on thermoelectric generator array. <i>Energy Conversion and Management</i> , 2015, 98, 268-274.	4.4	33
41	An improved approach for the application of Trombe wall system to building construction with selective thermo-insulation faÅšades. <i>Science Bulletin</i> , 2009, 54, 1949-1956.	4.3	32
42	The performance analysis of a novel hybrid solar gradient utilization photocatalytic-thermal-catalytic-Trombe wall system. <i>Energy</i> , 2019, 174, 420-435.	4.5	29
43	Experimental study of a combined system of solar Kang and solar air collector. <i>Energy Conversion and Management</i> , 2015, 103, 752-761.	4.4	27
44	A study on thermal performance, thermal comfort in sleeping environment and solar energy contribution of solar Chinese Kang. <i>Energy and Buildings</i> , 2013, 58, 66-75.	3.1	26
45	Vapor compression multifunctional heat pumps in China: A review of configurations and operational modes. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 6522-6538.	8.2	25
46	Experimental comparison of two PV direct-coupled solar water heating systems with the traditional system. <i>Applied Energy</i> , 2014, 136, 110-118.	5.1	24
47	CFD and comparative study on the dual-function solar collectors with and without tile-shaped covers in water heating mode. <i>Renewable Energy</i> , 2016, 86, 1205-1214.	4.3	24
48	Performance study of a dual-function roof solar collector for Chinese traditional buildings application. <i>Applied Thermal Engineering</i> , 2018, 128, 179-188.	3.0	23
49	A Review on the Heat Pipe Photovoltaic/Thermal (PV/T) System. <i>Journal of Thermal Science</i> , 2021, 30, 1469-1490.	0.9	19
50	Preliminary experiment and performance evaluation of a terrestrial solar thermoelectric generators under fluctuant solar radiation. <i>Applied Thermal Engineering</i> , 2021, 190, 116753.	3.0	13
51	Effect of a dual-function solar collector integrated with building on the cooling load of building in summer. <i>Science Bulletin</i> , 2010, 55, 3626-3632.	1.7	11
52	A numerical and experimental study of a dual-function solar collector integrated with building in passive space heating mode. <i>Science Bulletin</i> , 2010, 55, 1568-1573.	1.7	11
53	Experimental Study of the Water Heating Performance of a Novel Tile-shaped Dual-function Solar Collector. <i>Energy Procedia</i> , 2015, 70, 87-94.	1.8	8
54	The Thermal Behavior of a Dual-Function Solar Collector Integrated with Building: An Experimental and Numerical Study on the Air Heating Mode. <i>Energies</i> , 2018, 11, 2402.	1.6	5

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55	Study of fiber laser micro-nano sensor based on colloidal crystal. Optoelectronics Letters, 2014, 10, 27-29.	0.4	3
56	Numerical Study of Performance of Trombe Wall with PV Cells. , 2008, , 397-400.		2
57	A new performance evaluation method for solar thermosyphon systems. International Journal of Low-Carbon Technologies, 2010, 5, 239-244.	1.2	1
58	Heat Pump Technologies and Their Applications in Solar Systems. Green Energy and Technology, 2019, , 311-339.	0.4	1
59	Experimental analysis of a novel Solar PV/T Collector. E3S Web of Conferences, 2019, 136, 02043.	0.2	0
60	A Study of Pv-Shading Combined with Building. , 2008, , 378-383.		0