

# Wei He

## List of Publications by Year in descending order

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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	A Review on the Heat Pipe Photovoltaic/Thermal (PV/T) System. Journal of Thermal Science, 2021, 30, 1469-1490.	0.9	19
2	Preliminary experiment and performance evaluation of a terrestrial solar thermoelectric generators under fluctuant solar radiation. Applied Thermal Engineering, 2021, 190, 116753.	3.0	13
3	Heat Pump Technologies and Their Applications in Solar Systems. Green Energy and Technology, 2019, , 311-339.	0.4	1
4	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
5	Effective use of venetian blind in Trombe wall for solar space conditioning control. Applied Energy, 2019, 250, 452-460.	5.1	57
6	The performance analysis of a novel hybrid solar gradient utilization photocatalytic-thermal-catalytic-Trombe wall system. Energy, 2019, 174, 420-435.	4.5	29
7	Experimental analysis of a novel Solar PV/T Collector. E3S Web of Conferences, 2019, 136, 02043.	0.2	0
8	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
9	The performance analysis of a novel TC-Trombe wall system in heating seasons. Energy Conversion and Management, 2018, 164, 242-261.	4.4	68
10	Performance study of a dual-function roof solar collector for Chinese traditional buildings application. Applied Thermal Engineering, 2018, 128, 179-188.	3.0	23
11	Study of different heat exchange technologies influence on the performance of thermoelectric generators. Energy Conversion and Management, 2018, 156, 167-177.	4.4	100
12	The Thermal Behavior of a Dual-Function Solar Collector Integrated with Building: An Experimental and Numerical Study on the Air Heating Mode. Energies, 2018, 11, 2402.	1.6	5
13	Study on a high-performance photocatalytic-Trombe wall system for space heating and air purification. Applied Energy, 2018, 226, 365-380.	5.1	67
14	Comparative study on the annual performance of three types of building integrated photovoltaic (BIPV) Trombe wall system. Applied Energy, 2017, 194, 81-93.	5.1	103
15	Study on a high-performance solar thermoelectric system for combined heat and power. Energy Conversion and Management, 2017, 143, 459-469.	4.4	45
16	A review on the application of Trombe wall system in buildings. Renewable and Sustainable Energy Reviews, 2017, 70, 976-987.	8.2	202
17	Experimental and numerical performance analysis of a TC-Trombe wall. Applied Energy, 2017, 206, 70-82.	5.1	76
18	Design, construction and performance testing of a PV blind-integrated Trombe wall module. Applied Energy, 2017, 203, 643-656.	5.1	81

#	ARTICLE	IF	CITATIONS
19	Numerical analysis on the cooling performance of a ventilated Trombe wall combined with venetian blinds in an office building. <i>Energy and Buildings</i> , 2016, 126, 14-27.	3.1	50
20	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
21	Performance analysis on a novel micro-channel heat pipe evacuated tube solar collector-incorporated thermoelectric generation. <i>International Journal of Energy Research</i> , 2016, 40, 2117-2127.	2.2	40
22	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
23	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
24	Active Solar Thermal Facades (ASTFs): From concept, application to research questions. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 32-63.	8.2	58
25	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
26	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
27	Numerical simulation and experimental validation of tri-functional photovoltaic/thermal solar collector. <i>Energy</i> , 2015, 87, 470-480.	4.5	108
28	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
29	Recent development and application of thermoelectric generator and cooler. <i>Applied Energy</i> , 2015, 143, 1-25.	5.1	602
30	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
31	Operational performance of a novel heat pump assisted solar facade loop-heat-pipe water heating system. <i>Applied Energy</i> , 2015, 146, 371-382.	5.1	60
32	The thermal behavior of Trombe wall system with venetian blind: An experimental and numerical study. <i>Energy and Buildings</i> , 2015, 104, 395-404.	3.1	74
33	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
34	Study of fiber laser micro-nano sensor based on colloidal crystal. <i>Optoelectronics Letters</i> , 2014, 10, 27-29.	0.4	3
35	Experimental study and performance analysis of a thermoelectric cooling and heating system driven by a photovoltaic/thermal system in summer and winter operation modes. <i>Energy Conversion and Management</i> , 2014, 84, 41-49.	4.4	75
36	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

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37	Experimental investigation of tri-functional photovoltaic/thermal solar collector. Energy Conversion and Management, 2014, 88, 650-656.	4.4	78
38	Theoretical investigation of the thermal performance of a novel solar loop-heat-pipe faÅšade-based heat pump water heating system. Energy and Buildings, 2014, 77, 180-191.	3.1	34
39	Theoretical and experimental investigation on a thermoelectric cooling and heating system driven by solar. Applied Energy, 2013, 107, 89-97.	5.1	125
40	A study on thermal performance, thermal comfort in sleeping environment and solar energy contribution of solar Chinese Kang. Energy and Buildings, 2013, 58, 66-75.	3.1	26
41	Vapor compression multifunctional heat pumps in China: A review of configurations and operational modes. Renewable and Sustainable Energy Reviews, 2012, 16, 6522-6538.	8.2	25
42	A study on incorporation of thermoelectric modules with evacuated-tube heat-pipe solar collectors. Renewable Energy, 2012, 37, 142-149.	4.3	125
43	Parametrical analysis of the design and performance of a solar heat pipe thermoelectric generator unit. Applied Energy, 2011, 88, 5083-5089.	5.1	94
44	Comparative experiment study on photovoltaic and thermal solar system under natural circulation of water. Applied Thermal Engineering, 2011, 31, 3369-3376.	3.0	125
45	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
46	Performance of PV-Trombe wall in winter correlated with south faÅšade design. Applied Energy, 2011, 88, 224-231.	5.1	137
47	Effect of a dual-function solar collector integrated with building on the cooling load of building in summer. Science Bulletin, 2010, 55, 3626-3632.	1.7	11
48	A numerical and experimental study of a dual-function solar collector integrated with building in passive space heating mode. Science Bulletin, 2010, 55, 1568-1573.	1.7	11
49	A new performance evaluation method for solar thermosyphon systems. International Journal of Low-Carbon Technologies, 2010, 5, 239-244.	1.2	1
50	An improved approach for the application of Trombe wall system to building construction with selective thermo-insulation faÅšades. Science Bulletin, 2009, 54, 1949-1956.	4.3	32
51	Distributed dynamic modeling and experimental study of PV evaporator in a PV/T solar-assisted heat pump. International Journal of Heat and Mass Transfer, 2009, 52, 1365-1373.	2.5	196
52	Performance analysis of a photovoltaic heat pump. Applied Energy, 2008, 85, 680-693.	5.1	138
53	Numerical Study of Performance of Trombe Wall with PV Cells. , 2008, , 397-400.		2
54	A Study of Pv-Shading Combined with Building. , 2008, , 378-383.		0

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55	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
56	A sensitivity study of a hybrid photovoltaic/thermal water-heating system with natural circulation. Applied Energy, 2007, 84, 222-237.	5.1	244
57	Effect of fluid flow and packing factor on energy performance of a wall-mounted hybrid photovoltaic/water-heating collector system. Energy and Buildings, 2006, 38, 1380-1387.	3.1	102
58	Hybrid photovoltaic and thermal solar-collector designed for natural circulation of water. Applied Energy, 2006, 83, 199-210.	5.1	266
59	Performance of multi-functional domestic heat-pump system. Applied Energy, 2005, 80, 307-326.	5.1	67
60	Dynamic performance of hybrid photovoltaic/thermal collector wall in Hong Kong. Building and Environment, 2003, 38, 1327-1334.	3.0	91