Xing Ju

List of Publications by Year in descending order

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34	1,717	361296 20	377752 34
papers	citations	h-index	g-index

34	34	34	1313
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selection principles and thermophysical properties of high temperature phase change materials for thermal energy storage: A review. Renewable and Sustainable Energy Reviews, 2018, 81, 1771-1786.	8.2	233
2	A review of the concentrated photovoltaic/thermal (CPVT) hybrid solar systems based on the spectral beam splitting technology. Applied Energy, 2017, 187, 534-563.	5.1	221
3	Numerical analysis and optimization of a spectrum splitting concentration photovoltaicâ€“thermoelectric hybrid system. Solar Energy, 2012, 86, 1941-1954.	2.9	192
4	A review on the development of photovoltaic/concentrated solar power (PV-CSP) hybrid systems. Solar Energy Materials and Solar Cells, 2017, 161, 305-327.	3.0	165
5	Ca(NO3)2-NaNO3/expanded graphite composite as a novel shape-stable phase change material for mid- to high-temperature thermal energy storage. Energy Conversion and Management, 2018, 163, 50-58.	4.4	128
6	A review of concentrated photovoltaic-thermal (CPVT) hybrid solar systems with waste heat recovery (WHR). Science Bulletin, 2017, 62, 1388-1426.	4.3	85
7	A comprehensive review on solid particle receivers of concentrated solar power. Renewable and Sustainable Energy Reviews, 2019, 116, 109463.	8.2	79
8	A fully coupled numerical simulation of a hybrid concentrated photovoltaic/thermal system that employs a therminol VP-1 based nanofluid as a spectral beam filter. Applied Energy, 2020, 264, 114701.	5.1	58
9	Parametric analysis of a hybrid solar concentrating photovoltaic/concentrating solar power (CPV/CSP) system. Applied Energy, 2017, 189, 520-533.	5.1	56
10	Efficiency analyses of high temperature thermal energy storage systems of rocks only and rock-PCM capsule combination. Solar Energy, 2018, 162, 153-164.	2.9	49
11	Numerical study of a photovoltaic/thermal hybrid system with nanofluid based spectral beam filters. Energy Conversion and Management, 2018, 174, 686-704.	4.4	44
12	Numerical investigation of a novel manifold micro-pin-fin heat sink combining chessboard nozzle-jet concept for ultra-high heat flux removal. International Journal of Heat and Mass Transfer, 2018, 126, 1206-1218.	2.5	44
13	An improved temperature estimation method for solar cells operating at high concentrations. Solar Energy, 2013, 93, 80-89.	2.9	42
14	Three-dimensional numerical investigation of a hybrid low concentrated photovoltaic/thermal system. Energy, 2020, 190, 116436.	4.5	39
15	Energy analysis of a hybrid solar concentrating photovoltaic/concentrating solar power (CPV/CSP) system. Science Bulletin, 2015, 60, 460-469.	4.3	36
16	Effect of temperature on the stability and optical properties of SiO2-water nanofluids for hybrid photovoltaic/thermal applications. Applied Thermal Engineering, 2020, 175, 115394.	3.0	29
17	Numerical investigation on manifold immersion cooling scheme for lithium ion battery thermal management application. International Journal of Heat and Mass Transfer, 2022, 190, 122750.	2.5	27
18	Theoretical investigation of different CPVT configurations based on liquid absorption spectral beam filter. Energy, 2019, 189, 116259.	4.5	25

#	Article	IF	Citations
19	Review on gas-solid fluidized bed particle solar receivers applied in concentrated solar applications: Materials, configurations and methodologies. Renewable and Sustainable Energy Reviews, 2021, 150, 111479.	8.2	25
20	Dynamic output characteristics of a photovoltaic-wind-concentrating solar power hybrid system integrating an electric heating device. Energy Conversion and Management, 2019, 193, 86-98.	4.4	23
21	Three-dimensional multiphase modeling of a proton exchange membrane electrolysis cell with a new interdigitated-jet hole flow field. Science China Technological Sciences, 2022, 65, 1179-1192.	2.0	17
22	Thermal and electrical performance of the dense-array concentrating photovoltaic (DA-CPV) system under non-uniform illumination. Applied Energy, 2019, 250, 904-915.	5.1	16
23	Division methods and selection principles for the ideal optical window of spectral beam splitting photovoltaic/thermal systems. Energy Conversion and Management, 2021, 247, 114736.	4.4	13
24	Investigation of two-stage concentrating splitting photovoltaic/thermal system with a flexible heat-electricity ratio based on nanofluid. Energy Conversion and Management, 2022, 258, 115531.	4.4	13
25	High temperature stability and optical properties investigation of a novel ITO-Therminol 66 nanofluid for spectral splitting PV/T systems. Optical Materials, 2020, 109, 110373.	1.7	11
26	Influence of thermal and optical criteria of spectral fluid filters for hybrid concentrated photovoltaic/thermal systems. International Journal of Heat and Mass Transfer, 2021, 174, 121303.	2.5	11
27	A novel rotational symmetry (RS) connection approach for dense-array concentrator photovoltaic (DA-CPV) modules. Energy Conversion and Management, 2019, 181, 359-371.	4.4	10
28	Dynamic analysis of a concentrating photovoltaic/concentrating solar power (CPV/CSP) hybrid system. Science China Technological Sciences, 2019, 62, 1987-1998.	2.0	7
29	Investigation of bubbles on the performance of an optical water filter for a photovoltaic/thermal system. Applied Thermal Engineering, 2022, 213, 118643.	3.0	6
30	Cyclic performance analysis of a high temperature flat plate thermal energy storage unit with phase change material. Applied Thermal Engineering, 2018, 144, 1126-1136.	3.0	5
31	Numerical simulation to study the effect of spectral division of solar irradiance on the spectral splitting photovoltaic/thermal system. Renewable Energy, 2022, 182, 634-646.	4.3	4
32	Parameter optimization of a hybrid solar concentrating photovoltaic/concentrating solar power (CPV/CSP) system. AIP Conference Proceedings, 2017, , .	0.3	2
33	Multi-physics effects on the performance of Dense-array Concentrator Photovoltaic System. Energy Procedia, 2019, 158, 388-393.	1.8	1
34	Experimental investigation on the optical properties of ag nanofluids under high temperatures. International Communications in Heat and Mass Transfer, 2022, 135, 106059.	2.9	1