

Fei Cao

List of Publications by Year in descending order

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34
papers

918
citations

516710

16
h-index

454955

30
g-index

34
all docs

34
docs citations

34
times ranked

778
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance characteristics of R1234yf ejector-expansion refrigeration cycle. <i>Applied Energy</i> , 2014, 121, 96-103.	10.1	153
2	Characteristic output of PV systems under partial shading or mismatch conditions. <i>Solar Energy</i> , 2015, 112, 41-54.	6.1	141
3	Simulation of a sloped solar chimney power plant in Lanzhou. <i>Energy Conversion and Management</i> , 2011, 52, 2360-2366.	9.2	78
4	Performance analysis of conventional and sloped solar chimney power plants in China. <i>Applied Thermal Engineering</i> , 2013, 50, 582-592.	6.0	74
5	Design and simulation of a geothermal solar combined chimney power plant. <i>Energy Conversion and Management</i> , 2014, 84, 186-195.	9.2	55
6	Design and simulation of the solar chimney power plants with TRNSYS. <i>Solar Energy</i> , 2013, 98, 23-33.	6.1	47
7	Direct solar photocatalytic hydrogen generation with CPC photoreactors: System development. <i>Solar Energy</i> , 2017, 153, 215-223.	6.1	45
8	Evaluation of diffuse solar radiation models in Northern China: New model establishment and radiation sources comparison. <i>Renewable Energy</i> , 2017, 103, 708-720.	8.9	40
9	Full-year simulation of solar chimney power plants in Northwest China. <i>Renewable Energy</i> , 2018, 119, 421-428.	8.9	35
10	Development of the direct solar photocatalytic water splitting system for hydrogen production in Northwest China: Design and evaluation of photoreactor. <i>Renewable Energy</i> , 2018, 121, 153-163.	8.9	25
11	Models for calculating daily global solar radiation from air temperature in humid regions-A case study. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 595-599.	2.3	23
12	Economic analysis of solar chimney power plants in Northwest China. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, 021406.	2.0	22
13	Design and Simulation of a Solar Chimney PV/T Power Plant in Northwest China. <i>International Journal of Photoenergy</i> , 2018, 2018, 1-12.	2.5	21
14	Experimental study on direct solar photocatalytic water splitting for hydrogen production using surface uniform concentrators. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13745-13753.	7.1	20
15	A Temperature-Based Model for Estimating Monthly Average Daily Global Solar Radiation in China. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	17
16	Optimization of the concentration field in a suspended photocatalytic reactor. <i>Energy</i> , 2014, 74, 140-146.	8.8	17
17	Experimental study of direct solar photocatalytic water splitting for hydrogen production under natural circulation conditions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13727-13737.	7.1	17
18	Design and simulation of a solar double-chimney power plant. <i>Renewable Energy</i> , 2017, 113, 764-773.	8.9	16

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19	Numerical Simulation and Comparison of Conventional and Sloped Solar Chimney Power Plants: The Case for Lanzhou. <i>Scientific World Journal, The</i> , 2013, 2013, 1-8.	2.1	13
20	Design and Optimization of Elliptical Cavity Tube Receivers in the Parabolic Trough Solar Collector. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-7.	2.5	13
21	Redesign of a Water Heating System Using Evacuated Tube Solar Collectors: TRNSYS Simulation and Techno-Economic Evaluation. <i>Heat Transfer Engineering</i> , 2014, 35, 556-566.	1.9	12
22	Comparison of the daily global solar radiation from different data sources in Northwest China climate. <i>International Journal of Green Energy</i> , 2017, 14, 548-554.	3.8	8
23	Thermal performance and stress analyses of the cavity receiver tube in the parabolic trough solar collector. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 40, 012067.	0.3	5
24	Experimental Study of a Humidification-Dehumidification Seawater Desalination System Combined with the Chimney. <i>International Journal of Photoenergy</i> , 2020, 2020, 1-9.	2.5	5
25	Study on the Radiation Distribution in A Fluidized Tubular Reactor for Heterogeneous Photocatalytic Hydrogen Production. <i>Procedia Environmental Sciences</i> , 2012, 12, 285-292.	1.4	4
26	Transient Performance and Distribution Strategy Analysis of Solar Water Heating Systems. <i>Heat Transfer Engineering</i> , 2022, 43, 771-784.	1.9	4
27	TRNSYS simulation of solar chimney power plants with a heat storage layer. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2017, 25, 2719-2726.	1.4	3
28	Transient Performance Analysis of the Solar Optical Guide Lighting System in Building Groups. <i>Energies</i> , 2018, 11, 2898.	3.1	1
29	Design of a Humidification-Dehumidification Seawater Desalination System Combined with Solar Chimneys. <i>Environmental Science and Engineering</i> , 2019, , 181-187.	0.2	1
30	Performance simulation and distribution strategy of solar and wind coupled power generation systems in Northwest China. , 2020, , .		1
31	Numerical simulation of the temperature distribution of elliptical cavity tube receivers in the parabolic trough solar collector. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 844, 012001.	0.3	1
32	An LBM-Based Investigation on the Mixing Mechanism of Double Rows Film Cooling with the Combination of Forward and Backward Jets. <i>Energies</i> , 2022, 15, 4848.	3.1	1
33	Numerical Modeling of Turbulent Convective Heat Transfer for Supercritical Pressure Fluids Cooled in Horizontal Tubes. , 2016, , .		0
34	Solar collector angle optimization for maximum air flow rate in the solar chimney. , 0, , .		0