

Zhifeng Wang

List of Publications by Year in Descending Order

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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.

57
papers

621
citations

16
h-index

23
g-index

72
ext. papers

888
ext. citations

5.8
avg, IF

4.42
L-index

#	Paper	IF	Citations
57	Thermoplasmonics in Solar Energy Conversion: Materials, Nanostructured Designs, and Applications.. <i>Advanced Materials</i> , 2022 , e2107351	24	7
56	Description and Characterization of a 114-kWe High-Flux Solar Simulator. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2021 , 143,	2.3	1
55	Building an internationally competitive concentrating solar power industry in China: lessons from wind power and photovoltaics. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2021 , 16, 515-541	3.1	1
54	Influence of geometry on the thermal performance of water pit seasonal heat storages for solar district heating. <i>Building Simulation</i> , 2021 , 14, 579-599	3.9	1
53	Thermal performance of a single-layer packed metal pebble-bed exposed to high energy fluxes. <i>Frontiers in Energy</i> , 2021 , 15, 513-528	2.6	
52	Numerical and experimental study of a concentrated solar thermal receiver for a solar heating system with seasonal storage. <i>International Journal of Energy Research</i> , 2021 , 45, 7588-7604	4.5	2
51	SiN /Cu Spectral Beam Splitting Films for Hybrid Photovoltaic and Concentrating Solar Thermal Systems. <i>ACS Omega</i> , 2021 , 6, 21709-21718	3.9	1
50	A CPFD simulation on the particle flow characteristics in a packed moving bed solar receiver with an added insert. <i>Solar Energy</i> , 2021 , 224, 1144-1159	6.8	2
49	Theoretical and experimental investigation on heating moving packed beds in a single tube with constant wall temperature. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 180, 121725	4.9	5
48	Dynamic heat transfer model of flat plate solar water collectors with consideration of variable flow rate. <i>Solar Energy</i> , 2020 , 212, 34-47	6.8	3
47	Numerical study of conduction and radiation heat losses from vacuum annulus in parabolic trough receivers. <i>Frontiers in Energy</i> , 2020 , 1	2.6	1
46	Dynamic Simulation of a Novel Solar Polygeneration System for Heat, Power and Fresh Water Production based on Solar Thermal Power Tower Plant. <i>Journal of Thermal Science</i> , 2020 , 29, 378-392	1.9	2
45	Modeling and dynamic simulation of thermal energy storage system for concentrating solar power plant. <i>Energy</i> , 2020 , 198, 117183	7.9	16
44	Experimental study of pin finned receiver tubes for a parabolic trough solar air collector. <i>Solar Energy</i> , 2020 , 207, 91-102	6.8	21
43	How mushy zone evolves and affects the thermal behaviours in latent heat storage and recovery: A numerical study. <i>International Journal of Energy Research</i> , 2020 , 44, 4279-4297	4.5	6
42	Experimental study on latent thermal energy storage system with gradient porosity copper foam for mid-temperature solar energy application. <i>Applied Energy</i> , 2020 , 261, 114472	10.7	40
41	The Knowledge Mapping of Concentrating Solar Power Development Based on Literature Analysis Technology. <i>Energies</i> , 2020 , 13, 1988	3.1	9

40	Moonlight concentration experiments of Badaling solar tower power plant in Beijing 2020 ,		1
39	Numerical and experimental study of an underground water pit for seasonal heat storage. <i>Renewable Energy</i> , 2020 , 150, 487-508	8.1	17
38	Cold-state experimental study on discharge characteristics of solid particles in a gravity driven moving bed solar receiver. <i>Solar Energy</i> , 2020 , 195, 14-26	6.8	6
37	Thermal and hydraulic characteristics of a large-scaled parabolic trough solar field (PTSF) under cloud passages. <i>Frontiers in Energy</i> , 2020 , 14, 283-297	2.6	1
36	Experimental and numerical investigation on thermal performance of a quartz tube solid particle solar receiver. <i>Solar Energy</i> , 2020 , 207, 1055-1069	6.8	7
35	Experimental analysis of residual gas of vacuum annulus in parabolic trough solar receivers 2019 ,		1
34	Dynamically Coupled Operation of Two-Tank Indirect TES and Steam Generation System. <i>Energies</i> , 2019 , 12, 1720	3.1	2
33	Properties of solid particles as heat transfer fluid in a gravity driven moving bed solar receiver. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 110007	6.4	17
32	Experimental and Numerical Investigations on the Fluidized Heat Absorption inside Quartz Glass and Metal Tubes. <i>Energies</i> , 2019 , 12, 806	3.1	4
31	Numerical investigation of the heat transport in a very loose packed granular bed air receiver with a non-uniform energy flux distribution. <i>Renewable Energy</i> , 2019 , 138, 987-998	8.1	5
30	Model Based Study of Crop Evapotranspiration under Canopy Shading. <i>Agronomy</i> , 2019 , 9, 334	3.6	1
29	Numerical and experimental study of solidification dangers in a molten salt receiver for cloudy conditions. <i>Solar Energy</i> , 2019 , 193, 118-131	6.8	5
28	Establishment, Validation, and Application of a Comprehensive Thermal Hydraulic Model for a Parabolic Trough Solar Field. <i>Energies</i> , 2019 , 12, 3161	3.1	4
27	Influences of Optical Factors on the Performance of the Solar Furnace. <i>Energies</i> , 2019 , 12, 3933	3.1	1
26	Study on Optimized Dispatch and Operation Strategies for Heliostat Fields in a Concentrated Solar Power Tower Plant. <i>Energies</i> , 2019 , 12, 4544	3.1	1
25	Experimental Study on Vacuum Performance of Parabolic Trough Receivers based on a Novel Non-destructive Testing Method. <i>Energies</i> , 2019 , 12, 4531	3.1	2
24	Temperature and thermal stress analysis of parabolic trough receivers. <i>Renewable Energy</i> , 2019 , 136, 403-413	8.1	28
23	Optical performance analysis of an innovative linear focus secondary trough solar concentrating system. <i>Frontiers in Energy</i> , 2019 , 13, 590-596	2.6	2

22	Cavity receiver thermal performance analysis based on total heat loss coefficient and efficiency factor. <i>International Journal of Energy Research</i> , 2018 , 42, 2284-2289	4.5	2
21	Sputtered SiC coatings for radiative cooling and light absorption. <i>Journal of Photonics for Energy</i> , 2018 , 9, 1	1.2	5
20	Experiment study of a quartz tube falling particle receiver. <i>Frontiers in Energy</i> , 2017 , 11, 472-479	2.6	8
19	A parametric experimental study of aerothermal performance and efficiency in monolithic volumetric absorbers 2017 ,		4
18	Numerical study of cold filling and tube deformation in the molten salt receiver 2017 ,		2
17	Experimental and numerical investigation of a packed-bed thermal energy storage device 2017 ,		2
16	Yanqing solar field: Dynamic optical model and operational safety analysis. <i>Applied Thermal Engineering</i> , 2017 , 110, 275-289	5.8	3
15	The backward ray tracing with effective solar brightness used to simulate the concentrated flux map of a solar tower concentrator 2017 ,		2
14	Experimental study of a single quartz tube solid particle air receiver. <i>Solar Energy</i> , 2016 , 123, 185-205	6.8	24
13	Dynamic simulation and experimental validation of an open air receiver and a thermal energy storage system for solar thermal power plant. <i>Applied Energy</i> , 2016 , 178, 281-293	10.7	29
12	Influences of installation and tracking errors on the optical performance of a solar parabolic trough collector. <i>Renewable Energy</i> , 2016 , 94, 197-212	8.1	46
11	Two new methods used to simulate the circumferential solar flux density concentrated on the absorber of a parabolic trough solar collector 2016 ,		3
10	Structural reliability analysis of parabolic trough receivers. <i>Applied Energy</i> , 2014 , 123, 232-241	10.7	46
9	Experimental study on a humidification and dehumidification desalination system of solar air heater with evacuated tubes. <i>Desalination</i> , 2014 , 351, 1-8	10.3	58
8	Allowable flux density on a solar central receiver. <i>Renewable Energy</i> , 2014 , 62, 747-753	8.1	52
7	Theoretical analysis and experimental verification of a new dynamic test method for solar collectors. <i>Solar Energy</i> , 2012 , 86, 398-406	6.8	24
6	An improved dynamic test method for solar collectors. <i>Solar Energy</i> , 2012 , 86, 1838-1848	6.8	28
5	Design of Heliostats Field for the Scale of 1MW Solar Power Tower Plant 2012 ,		2

4	Vacuum reliability analysis of parabolic trough receiver. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 302-308	6.4	20
3	Accurate altitude–azimuth tracking angle formulas for a heliostat with mirror pivot offset and other fixed geometrical errors. <i>Solar Energy</i> , 2011 , 85, 1091-1100	6.8	27
2	Structural Design and Analysis of the Toroidal Heliostat. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2010 , 132,	2.3	6
1	Cosine Efficiency Distribution of Heliostats Field of Solar Thermal Power Tower Plants 2009 ,		5