

Bin Du

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

446
citations

759055

12
h-index

794469

19
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19
all docs

19
docs citations

19
times ranked

231
citing authors

#	ARTICLE	IF	CITATIONS
1	Configuration optimization and selection of a photovoltaic-gas integrated energy system considering renewable energy penetration in power grid. <i>Energy Conversion and Management</i> , 2022, 254, 115260.	4.4	46
2	Improving the performance of a 2-stage large aperture parabolic trough solar concentrator using a secondary reflector designed by adaptive method. <i>Renewable Energy</i> , 2020, 152, 23-33.	4.3	45
3	Performance analysis and exergo-economic optimization of a solar-driven adjustable tri-generation system. <i>Energy Conversion and Management</i> , 2021, 233, 113873.	4.4	42
4	Multi-objective optimization of an integrated energy system against energy, supply-demand matching and exergo-environmental cost over the whole life-cycle. <i>Energy Conversion and Management</i> , 2022, 254, 115203.	4.4	39
5	Status and future strategies for Concentrating Solar Power in China. <i>Energy Science and Engineering</i> , 2017, 5, 100-109.	1.9	36
6	Estimation and prediction of state of health of electric vehicle batteries using discrete incremental capacity analysis based on real driving data. <i>Energy</i> , 2021, 225, 120160.	4.5	34
7	Ideal scheme selection of an integrated conventional and renewable energy system combining multi-objective optimization and matching performance analysis. <i>Energy Conversion and Management</i> , 2022, 251, 114989.	4.4	34
8	Straight-through all-glass evacuated tube solar collector for low and medium temperature applications. <i>Solar Energy</i> , 2020, 201, 935-943.	2.9	29
9	Improving the performance of large-aperture parabolic trough solar concentrator using semi-circular absorber tube with external fin and flat-plate radiation shield. <i>Renewable Energy</i> , 2020, 159, 1215-1223.	4.3	25
10	Comparative study of heat transfer enhancement using different fins in semi-circular absorber tube for large-aperture trough solar concentrator. <i>Renewable Energy</i> , 2021, 169, 1229-1241.	4.3	22
11	Thermodynamic performance analysis and modified thermo-ecological cost optimization of a hybrid district heating system considering energy levels. <i>Energy</i> , 2021, 224, 120067.	4.5	20
12	Numerical study on the uniformity of reflective high concentration photovoltaic system with two-stage reflective concentrator. <i>Solar Energy</i> , 2020, 199, 206-213.	2.9	19
13	Improving the accuracy of predicting the performance of solar collectors through clustering analysis with artificial neural network models. <i>Energy Reports</i> , 2022, 8, 3970-3981.	2.5	14
14	Comparative study of modelling the thermal efficiency of a novel straight through evacuated tube collector with MLR, SVR, BP and RBF methods. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 44, 101029.	1.7	10
15	Theoretical study on melting of phase change material by natural convection. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101620.	2.8	10
16	Characteristics of natural convection in n-eicosane in a square cavity with discrete heat source. <i>Case Studies in Thermal Engineering</i> , 2021, 27, 101245.	2.8	7
17	Improving stability and heat transfer through a beam in a semi-circular absorber tube of a large-aperture trough solar concentrator. <i>Energy</i> , 2021, 228, 120614.	4.5	6
18	Optimizing research on large-aperture parabolic trough condenser using two kinds of absorber tubes with reflector at 500°C. <i>Renewable Energy</i> , 2021, 179, 2187-2197.	4.3	5

#	ARTICLE	IF	CITATIONS
19	Development of a Core-Shell Heterojunction $\text{TiO}_2/\text{SrTiO}_3$ Electrolyte with Improved Ionic Conductivity. <i>ChemPhysChem</i> , 2022, 23, .	1.0	3