

Wanlong Cai

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

450
citations

1039880

9
h-index

1199470

12
g-index

15
all docs

15
docs citations

15
times ranked

110
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical investigation of heat transfer performance and sustainability of deep borehole heat exchangers coupled with ground source heat pump systems. <i>Applied Thermal Engineering</i> , 2019, 149, 975-986.	3.0	99
2	Numerical study on the effects of design parameters on the heat transfer performance of coaxial deep borehole heat exchanger. <i>International Journal of Energy Research</i> , 2019, 43, 6337-6352.	2.2	63
3	Numerical investigation on the effects of geological parameters and layered subsurface on the thermal performance of medium-deep borehole heat exchanger. <i>Renewable Energy</i> , 2020, 149, 384-399.	4.3	62
4	Analysis of heat extraction performance and long-term sustainability for multiple deep borehole heat exchanger array: A project-based study. <i>Applied Energy</i> , 2021, 289, 116590.	5.1	60
5	Influencing factors analysis and operation optimization for the long-term performance of medium-deep borehole heat exchanger coupled ground source heat pump system. <i>Energy and Buildings</i> , 2020, 226, 110385.	3.1	56
6	Numerical investigation on the capacity and efficiency of a deep enhanced U-tube borehole heat exchanger system for building heating. <i>Renewable Energy</i> , 2021, 169, 557-572.	4.3	38
7	Long-term thermal imbalance in large borehole heat exchangers array – A numerical study based on the Leicester project. <i>Energy and Buildings</i> , 2021, 231, 110518.	3.1	21
8	Long-term performance evaluation for deep borehole heat exchanger array under different soil thermal properties and system layouts. <i>Energy</i> , 2022, 241, 122937.	4.5	20
9	Long-term Performance Evaluation and Economic Analysis for Deep Borehole Heat Exchanger Heating System in Weihe Basin. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	10
10	Importance of long-term ground-loop temperature variation in performance optimization of Ground Source Heat Pump system. <i>Applied Thermal Engineering</i> , 2022, 204, 117945.	3.0	9
11	Numerical Study on the Long-Term Performance and Load Imbalance Ratio for Medium-Shallow Borehole Heat Exchanger System. <i>Energies</i> , 2022, 15, 3444.	1.6	8
12	Discrepancies in using CO ₂ or water as heat-carrier fluid on the output temperature of deep coaxial borehole heat exchanger. <i>Energy and Buildings</i> , 2022, 270, 112279.	3.1	4
13	Study on Feasibility of Accumulating Solar Energy into Soil for Improving the Imbalance of Heat Injection and Extraction in GHP System. <i>Environmental Science and Engineering</i> , 2020, , 249-258.	0.1	0