

Hailei Wang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

515
citations

933447

10
h-index

752698

20
g-index

31
all docs

31
docs citations

31
times ranked

483
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance of a combined organic Rankine cycle and vapor compression cycle for heat activated cooling. <i>Energy</i> , 2011, 36, 447-458.	8.8	143
2	Design study of configurations on system COP for a combined ORC (organic Rankine cycle) and VCC (vapor compression cycle). <i>Energy</i> , 2011, 36, 4809-4820.	8.8	110
3	Large-scale Generation of Patterned Bubble Arrays on Printed Bi-functional Boiling Surfaces. <i>Scientific Reports</i> , 2016, 6, 23760.	3.3	54
4	Enhanced Boiling Heat Transfer in Parallel Microchannels With Diffusion Brazed Wire Mesh. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2010, 33, 784-793.	1.3	37
5	Performance enhancement of a thermally activated cooling system using microchannel heat exchangers. <i>Applied Thermal Engineering</i> , 2011, 31, 2951-2962.	6.0	25
6	Experimental characterization of thermal-hydraulic performance of a microchannel heat exchanger for waste heat recovery. <i>Energy Conversion and Management</i> , 2020, 204, 112309.	9.2	25
7	Design, simulation, and testing of a novel micro-channel heat exchanger for natural gas cooling in automotive applications. <i>Applied Thermal Engineering</i> , 2017, 110, 327-334.	6.0	20
8	Modeling and simulation of a supercritical CO ₂ -liquid sodium compact heat exchanger for sodium-cooled fast reactors. <i>Applied Thermal Engineering</i> , 2020, 180, 115859.	6.0	19
9	A critical review on numerical study of nanorefrigerant heat transfer enhancement. <i>Powder Technology</i> , 2020, 368, 18-31.	4.2	16
10	Dynamic modeling and simulation of nuclear hybrid energy systems using freeze desalination and reverse osmosis for clean water production. <i>Energy Conversion and Management</i> , 2021, 247, 114724.	9.2	14
11	A comparative study of alternative power cycles for small modular reactors. <i>Energy Conversion and Management</i> , 2021, 247, 114734.	9.2	11
12	Development and comparative selection of surrogate models using artificial neural network for an integrated regenerative transcritical cycle. <i>Applied Energy</i> , 2022, 317, 119146.	10.1	7
13	Improving the Energy Efficiency of Adsorption Chillers by Intensifying Thermal Management Systems in Sorbent Beds. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	2.2	6
14	Design and modeling of novel two-phase heat exchangers for a home cooling system with ice energy storage. <i>Applied Thermal Engineering</i> , 2022, 207, 118175.	6.0	6
15	Dynamic simulation and optimization of integrated clean energy water systems. <i>IScience</i> , 2022, 25, 104015.	4.1	5
16	Development of a microchannel based pasteurizer for energy efficient processing of liquids. <i>Applied Thermal Engineering</i> , 2011, 31, 3604-3614.	6.0	4
17	Modeling and simulation of an integrated regenerative transcritical cycle with a small modular reactor. <i>Energy Conversion and Management</i> , 2020, 225, 113278.	9.2	4
18	Size and Material Effects on Flow Boiling Enhancement in Microchannels With Diffusion-Brazed Wire Mesh. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011, 1, 545-556.	2.5	2

#	ARTICLE	IF	CITATIONS
19	Experimental Validation of a Portable Power and Cooling System Using Integrated TEG-ORC. Journal of Thermophysics and Heat Transfer, 2021, 35, 411-420.	1.6	2
20	Thermal Management and Enhancement of Adsorption Based Onboard Hydrogen Storage System. , 2016, , .		1
21	Numerical Modeling for a Supercritical CO2-Liquid Sodium Hybrid Compact Heat Exchanger. , 2018, , .		1
22	Experimental Study of Thermal Management and Enhancement of Adsorption-Based Onboard Hydrogen Storage System. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	2.1	1
23	Modeling and Simulation of Building Cooling System With Supercooling-Based Ice Energy Storage. ASME Journal of Engineering for Sustainable Buildings and Cities, 2020, 1, .	0.9	1
24	Development of a Hybrid Cooling, Heating, and Power System for Distributed Energy Applications. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	1
25	Energy Storage and Waste Heat Recovery: A Synergistic Effect Benefiting Renewable Energy. , 2011, , .		0
26	Hybrid Cooling, Heating and Power System for Distributed Energy Applications. , 2017, , .		0
27	Improving the Energy Efficiency of Adsorption Chillers by Intensifying Thermal Management Systems in Sorbent Beds. , 2017, , .		0
28	Flow Boiling Enhancement in Microchannels With Diffusion Bonded Wire Mesh. , 2007, , .		0
29	Dynamic Modeling and Simulation of Home Cooling System With Supercooling-Based Ice Energy Storage. , 2019, , .		0
30	3D Flow Simulations of Fan Enclosure Concepts for a Novel Heat and Moisture Exchanger. , 2019, , .		0
31	Geometric measurement and characterization of a microchannel heat exchanger for performance validation. Engineering Research Express, 2020, 2, 035016.	1.6	0