

Xiaoye Dai

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

618
citations

516710

16
h-index

580821

25
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31
all docs

31
docs citations

31
times ranked

431
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of thermal stability on organic Rankine cycle systems using siloxanes as working fluids. <i>Applied Thermal Engineering</i> , 2022, 200, 117639.	6.0	7
2	Comprehensive comparison of the applicability of internally ribbed and microfin tubes for TORC systems. <i>International Journal of Heat and Mass Transfer</i> , 2022, 186, 122470.	4.8	2
3	Image-based modelling of coke combustion in a multiscale porous medium using a micro-continuum framework. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	6
4	Experimental study of the heat transfer of supercritical R1234yf as a substitute for R134a in a horizontal micro-fin tube. <i>International Journal of Refrigeration</i> , 2022, 144, 1-13.	3.4	4
5	Coupling effect between heat flux distribution and buoyancy of supercritical CO ₂ heat transfer with nonuniform heat flux in parabolic-trough collector. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123197.	4.8	5
6	A Comprehensive Experimental Study on Immiscible Displacements in Porous Media: Effects of Capillary Forces, Viscous Forces, Wettability and Pore Geometries. <i>Journal of Thermal Science</i> , 2021, 30, 2137-2149.	1.9	4
7	Pore-scale study of multicomponent multiphase heat and mass transfer mechanism during methane hydrate dissociation process. <i>Chemical Engineering Journal</i> , 2021, 423, 130206.	12.7	19
8	Material Compatibility of Hexamethyldisiloxane as Organic Rankine Cycle Working Fluids at High Temperatures. <i>Journal of Thermal Science</i> , 2020, 29, 25-31.	1.9	3
9	Standard thermodynamic properties for the energy grade evaluation of fossil fuels and renewable fuels. <i>Renewable Energy</i> , 2020, 147, 2160-2170.	8.9	44
10	Feasibility Analysis of the Operation Strategies for Combined Cooling, Heating and Power Systems (CCHP) based on the Energy-Matching Regime. <i>Journal of Thermal Science</i> , 2020, 29, 1149-1164.	1.9	4
11	Performance and parameter sensitivity comparison of CSP power cycles under wide solar energy temperature ranges and multiple working conditions. <i>Energy Conversion and Management</i> , 2020, 218, 112996.	9.2	7
12	Heat transfer of R134a in a horizontal internally ribbed tube and in a smooth tube under super critical pressure. <i>Applied Thermal Engineering</i> , 2020, 173, 115208.	6.0	7
13	Analysis of energy-matching performance and suitable users of conventional CCHP systems coupled with different energy storage systems. <i>Energy Conversion and Management</i> , 2019, 200, 112093.	9.2	29
14	Buoyancy effect on the mixed convection flow and heat transfer of supercritical R134a in heated horizontal tubes. <i>International Journal of Heat and Mass Transfer</i> , 2019, 144, 118607.	4.8	17
15	Review of the Working Fluid Thermal Stability for Organic Rankine Cycles. <i>Journal of Thermal Science</i> , 2019, 28, 597-607.	1.9	31
16	Performance assessment of CCHP systems with different cooling supply modes and operation strategies. <i>Energy Conversion and Management</i> , 2019, 192, 188-201.	9.2	36
17	Analysis of simplified CCHP users and energy-matching relations between system provision and user demands. <i>Applied Thermal Engineering</i> , 2019, 152, 532-542.	6.0	18
18	Comparison of capacity design modes and operation strategies and calculation of thermodynamic boundaries of energy-saving for CCHP systems in different energy supply scenarios. <i>Energy Conversion and Management</i> , 2019, 188, 296-309.	9.2	28

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19	Experimental investigation of the heat transfer of supercritical R134a in a horizontal micro-fin tube. International Journal of Thermal Sciences, 2019, 138, 536-549.	4.9	13
20	Thermal stability of hexamethyldisiloxane (MM) as a working fluid for organic Rankine cycle. International Journal of Energy Research, 2019, 43, 896-904.	4.5	24
21	Analysis of energy matching performance between CCHP systems and users based on different operation strategies. Energy Conversion and Management, 2019, 182, 60-71.	9.2	35
22	Experimental study of R134a flow boiling in a horizontal tube for evaporator design under typical Organic Rankine Cycle pressures. International Journal of Heat and Fluid Flow, 2018, 71, 210-219.	2.4	12
23	Fluid-to-fluid scaling of heat transfer to mixed convection flow of supercritical pressure fluids. International Journal of Energy Research, 2018, 42, 3361-3377.	4.5	2
24	Thermal stability of some hydrofluorocarbons as supercritical ORCs working fluids. Applied Thermal Engineering, 2018, 128, 1095-1101.	6.0	59
25	Experimental Study on Sharp Increase of Wall Temperature in Vapor Generator for Organic Rankine Cycle. , 2018, , .		0
26	Study of Variable Turbulent Prandtl Number Model for Heat Transfer to Supercritical Fluids in Vertical Tubes. Journal of Thermal Science, 2018, 27, 213-222.	1.9	25
27	Influence of alkane working fluid decomposition on supercritical organic Rankine cycle systems. Energy, 2018, 153, 422-430.	8.8	19
28	Screening of working fluids and metal materials for high temperature organic Rankine cycles by compatibility. Journal of Renewable and Sustainable Energy, 2017, 9, .	2.0	17
29	Exploration and Analysis of CO ₂ + Hydrocarbons Mixtures as Working Fluids for Trans-critical ORC. Energy Procedia, 2017, 129, 145-151.	1.8	10
30	Screening of hydrocarbons as supercritical ORCs working fluids by thermal stability. Energy Conversion and Management, 2016, 126, 632-637.	9.2	82
31	Chemical kinetics method for evaluating the thermal stability of Organic Rankine Cycle working fluids. Applied Thermal Engineering, 2016, 100, 708-713.	6.0	49