Xiaoye Dai

List of Publications by Year
in descending order

31	618	516710 16	580821 25
papers	citations	h-index	g-index

31	31	31	431
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Screening of hydrocarbons as supercritical ORCs working fluids by thermal stability. Energy Conversion and Management, 2016, 126, 632-637.	9.2	82
2	Thermal stability of some hydrofluorocarbons as supercritical ORCs working fluids. Applied Thermal Engineering, 2018, 128, 1095-1101.	6.0	59
3	Chemical kinetics method for evaluating the thermal stability of Organic Rankine Cycle working fluids. Applied Thermal Engineering, 2016, 100, 708-713.	6.0	49
4	Standard thermodynamic properties for the energy grade evaluation of fossil fuels and renewable fuels. Renewable Energy, 2020, 147, 2160-2170.	8.9	44
5	Performance assessment of CCHP systems with different cooling supply modes and operation strategies. Energy Conversion and Management, 2019, 192, 188-201.	9.2	36
6	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
7	Review of the Working Fluid Thermal Stability for Organic Rankine Cycles. Journal of Thermal Science, 2019, 28, 597-607.	1.9	31
8	Analysis of energy-matching performance and suitable users of conventional CCHP systems coupled with different energy storage systems. Energy Conversion and Management, 2019, 200, 112093.	9.2	29
9	Comparison of capacity design modes and operation strategies and calculation of thermodynamic boundaries of energy-saving for CCHP systems in different energy supply scenarios. Energy Conversion and Management, 2019, 188, 296-309.	9.2	28
10	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
11	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
12	Influence of alkane working fluid decomposition on supercritical organic Rankine cycle systems. Energy, 2018, 153, 422-430.	8.8	19
13	Pore-scale study of multicomponent multiphase heat and mass transfer mechanism during methane hydrate dissociation process. Chemical Engineering Journal, 2021, 423, 130206.	12.7	19
14	Analysis of simplified CCHP users and energy-matching relations between system provision and user demands. Applied Thermal Engineering, 2019, 152, 532-542.	6.0	18
15	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
16	Buoyancy effect on the mixed convection flow and heat transfer of supercritical R134a in heated horizontal tubes. International Journal of Heat and Mass Transfer, 2019, 144, 118607.	4.8	17
17	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
18	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

#	Article	IF	Citations
19	Exploration and Analysis of CO 2 + Hydrocarbons Mixtures as Working Fluids for Trans-critical ORC. Energy Procedia, 2017, 129, 145-151.	1.8	10
20	Performance and parameter sensitivity comparison of CSP power cycles under wide solar energy temperature ranges and multiple working conditions. Energy Conversion and Management, 2020, 218, 112996.	9.2	7
21	Heat transfer of R134a in a horizontal internally ribbed tube and in a smooth tube under super critical pressure. Applied Thermal Engineering, 2020, 173, 115208.	6.0	7
22	Influence of thermal stability on organic Rankine cycle systems using siloxanes as working fluids. Applied Thermal Engineering, 2022, 200, 117639.	6.0	7
23	Image-based modelling of coke combustion in a multiscale porous medium using a micro-continuum framework. Journal of Fluid Mechanics, 2022, 932, .	3.4	6
24	Coupling effect between heat flux distribution and buoyancy of supercritical CO2 heat transfer with nonuniform heat flux in parabolic-trough collector. International Journal of Heat and Mass Transfer, 2022, 195, 123197.	4.8	5
25	Feasibility Analysis of the Operation Strategies for Combined Cooling, Heating and Power Systems (CCHP) based on the Energy-Matching Regime. Journal of Thermal Science, 2020, 29, 1149-1164.	1.9	4
26	A Comprehensive Experimental Study on Immiscible Displacements in Porous Media: Effects of Capillary Forces, Viscous Forces, Wettability and Pore Geometries. Journal of Thermal Science, 2021, 30, 2137-2149.	1.9	4
27	Experimental study of the heat transfer of supercritical R1234yf as a substitute for R134a in a horizontal micro-fin tube. International Journal of Refrigeration, 2022, 144, 1-13.	3.4	4
28	Material Compatibility of Hexamethyldisiloxane as Organic Rankine Cycle Working Fluids at High Temperatures. Journal of Thermal Science, 2020, 29, 25-31.	1.9	3
29	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
30	Comprehensive comparison of the applicability of internally ribbed and microfin tubes for TORC systems. International Journal of Heat and Mass Transfer, 2022, 186, 122470.	4.8	2
31	Experimental Study on Sharp Increase of Wall Temperature in Vapor Generator for Organic Rankine Cycle. , 2018, , .		0