

Yinhai Zhu

List of Publications by Year in descending order

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papers

2,794
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172386
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docs citations

71
times ranked

997
citing authors

#	ARTICLE	IF	CITATIONS
1	A numerical study of segmented cooling-stream injection in supersonic film cooling. Chinese Journal of Aeronautics, 2022, 35, 156-171.	2.8	1
2	Quasi-two-dimensional ejector model for anode gas recirculation fuel cell systems. Energy Conversion and Management, 2022, 262, 115674.	4.4	15
3	Dynamic simulation model with virtual interfaces of supercritical working fluid heat exchanger based on moving boundary method. Energy, 2022, 254, 124334.	4.5	3
4	Online measurement of mean residence time of supercritical-pressure fluid with/without chemical reaction in pipe flow: A particle image statistics method considering optical distortion and radial uneven distribution of tracer particles. Chemical Engineering Science, 2022, 258, 117772.	1.9	3
5	Performance analysis and dynamic optimization of integrated cooling and power generation system based on supercritical CO ₂ cycle for turbine-based combined cycle engine. Applied Thermal Engineering, 2022, 215, 118867.	3.0	14
6	A novel global reaction modeling approach considering the effects of pressure on pyrolysis of n-decane at supercritical pressures. Fuel, 2021, 287, 119416.	3.4	27
7	An innovative design for measuring the enhanced mixing effect of a shock wave on supersonic film cooling. International Communications in Heat and Mass Transfer, 2021, 122, 105132.	2.9	4
8	Influence of shock wave impinging region on supersonic film cooling. Chinese Journal of Aeronautics, 2021, 34, 452-465.	2.8	10
9	Experimental and theoretical modeling of the effects of pressure and secondary reactions on pyrolysis of JP-10 at supercritical pressures. Fuel, 2021, 306, 121737.	3.4	18
10	Self-pumping transpiration cooling with a protective porous armor. Applied Thermal Engineering, 2020, 164, 114485.	3.0	24
11	Experimental and modeling studies of thermally-driven subcritical and transcritical ejector refrigeration systems. Energy Conversion and Management, 2020, 224, 113361.	4.4	23
12	Multi-objective optimization of combined cooling, heating, and power systems with supercritical CO ₂ recompression Brayton cycle. Applied Energy, 2020, 271, 115189.	5.1	47
13	Transpiration cooling with bio-inspired structured surfaces. Bioinspiration and Biomimetics, 2020, 15, 036016.	1.5	17
14	Investigation of flow and heat transfer instabilities and oscillation inhibition of n-decane at supercritical pressure in vertical pipe. Applied Thermal Engineering, 2019, 161, 114143.	3.0	15
15	Differential Global Reaction Model with Variable Stoichiometric Coefficients for Thermal Cracking of n-Decane at Supercritical Pressures. Energy & Fuels, 2019, 33, 7244-7256.	2.5	19
16	Self-pumping transpiration cooling with phase change for sintered porous plates. Applied Thermal Engineering, 2019, 159, 113870.	3.0	12
17	Study of convection heat transfer of CO ₂ at supercritical pressures during cooling in fluted tube-in-tube heat exchangers. International Journal of Refrigeration, 2019, 104, 161-170.	1.8	17
18	Biomimetic self-pumping transpiration cooling for additive manufactured porous module with tree-like micro-channel. International Journal of Heat and Mass Transfer, 2019, 131, 403-410.	2.5	46

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19	Experimental investigation of convective heat transfer of hydrocarbon fuels at supercritical pressures within rotating centrifugal channel. <i>Applied Thermal Engineering</i> , 2019, 147, 101-112.	3.0	30
20	Influence of shock waves on supersonic transpiration cooling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 129, 965-974.	2.5	23
21	Thermal Cracking and Heat Transfer of Hydrocarbon Fuels at Supercritical Pressures in Vertical Tubes. <i>Heat Transfer Engineering</i> , 2019, 40, 437-449.	1.2	32
22	Experimental Investigation of Convective Heat Transfer of Supercritical Pressure Hydrocarbon Fuel in a Horizontal Section of a Rotating U-Duct. <i>Journal of Heat Transfer</i> , 2019, 141, .	1.2	7
23	INFLUENCE OF COOLANT PRESSURE RATIO AND SHOCK WAVE ON SUPERSONIC FILM COOLING WITH TWO ROWS OF DISCRETE HOLES. <i>The Proceedings of the International Conference on Nuclear Engineering (ICONE)</i> , 2019, 2019.27, 1596.	0.0	1
24	Experimental Investigation of Flow Coking and Coke Deposition of Supercritical Hydrocarbon Fuels in Porous Media. <i>Energy & Fuels</i> , 2018, 32, 2941-2948.	2.5	14
25	Investigation of Inclined Porous Transpiration-Cooled Struts. <i>Journal of Spacecraft and Rockets</i> , 2018, 55, 660-668.	1.3	5
26	Experimental investigation of the flow and heat transfer instabilities in n-decane at supercritical pressures in a vertical tube. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 987-996.	2.5	47
27	Thermodynamic optimization of heat transfer process in thermal systems using CO ₂ as the working fluid based on temperature glide matching. <i>Energy</i> , 2018, 151, 376-386.	4.5	21
28	Experimental investigation of self-pumping internal transpiration cooling. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 514-522.	2.5	24
29	Investigation of Combined Transpiration and Opposing Jet Cooling of Sintered Metal Porous Struts. <i>Heat Transfer Engineering</i> , 2018, 39, 711-723.	1.2	16
30	Experimental Study on Combined Cooling Method for Porous Struts in Supersonic Flow. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	17
31	Theoretical model of transcritical CO ₂ ejector with non-equilibrium phase change correlation. <i>International Journal of Refrigeration</i> , 2018, 86, 218-227.	1.8	19
32	Review on active thermal protection and its heat transfer for airbreathing hypersonic vehicles. <i>Chinese Journal of Aeronautics</i> , 2018, 31, 1929-1953.	2.8	189
33	Experimental investigation on the performance of transcritical CO ₂ ejector-expansion heat pump water heater system. <i>Energy Conversion and Management</i> , 2018, 167, 147-155.	4.4	93
34	Inverse Heat Conduction Problem for Estimating Heat Flux on a Triangular Wall. <i>Journal of Thermophysics and Heat Transfer</i> , 2017, 31, 205-210.	0.9	7
35	Experimental investigation of combined transpiration and film cooling for sintered metal porous struts. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 232-243.	2.5	67
36	Comprehensive experimental study on a transcritical CO ₂ ejector-expansion refrigeration system. <i>Energy Conversion and Management</i> , 2017, 151, 98-106.	4.4	94

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37	Experimental investigation of biomimetic self-pumping and self-adaptive transpiration cooling. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 056002.	1.5	24
38	Experimental investigation of transpiration cooling with phase change for sintered porous plates. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 1201-1213.	2.5	57
39	Flow visualization of supersonic two-phase transcritical flow of CO ₂ in an ejector of a refrigeration system. <i>International Journal of Refrigeration</i> , 2017, 74, 354-361.	1.8	63
40	Investigation on thermal stratification and turbulent penetration in a pressurizer surge line with an overall out-surge flow. <i>Annals of Nuclear Energy</i> , 2016, 90, 212-233.	0.9	15
41	Experimental investigation of full-coverage effusion cooling through perforated flat plates. <i>Applied Thermal Engineering</i> , 2015, 76, 76-85.	3.0	39
42	A two-dimensional inverse heat conduction problem for simultaneous estimation of heat convection coefficient, fluid temperature and wall temperature on the inner wall of a pipeline. <i>Progress in Nuclear Energy</i> , 2015, 81, 161-168.	1.3	29
43	Investigation of a Porous Transpiration-Cooled Strut Injector. <i>Journal of Propulsion and Power</i> , 2015, 31, 278-285.	1.3	32
44	Experimental investigation of convection heat transfer of n-decane at supercritical pressures in small vertical tubes. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 734-746.	2.5	119
45	INVESTIGATION OF SUPERSONIC TRANSPARATION COOLING THROUGH SINTERED METAL POROUS FLAT PLATES. <i>Journal of Porous Media</i> , 2015, 18, 1047-1057.	1.0	9
46	Inversion of the Third Boundary Condition on the Inner Wall of a Two-dimensional Pipe Based on Inverse Heat Conduction Problems. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2015, 51, 171.	0.7	2
47	Numerical Simulation of Transpiration Cooling for Sintered Metal Porous Strut of the Scramjet Combustion Chamber. <i>Heat Transfer Engineering</i> , 2014, 35, 721-729.	1.2	35
48	Investigation of transpiration cooling for sintered metal porous struts in supersonic flow. <i>Applied Thermal Engineering</i> , 2014, 70, 240-249.	3.0	48
49	Experimental and numerical investigation of the effect of shock wave characteristics on the ejector performance. <i>International Journal of Refrigeration</i> , 2014, 40, 31-42.	1.8	121
50	Experimental and Numerical Investigations on n-Decane Thermal Cracking at Supercritical Pressures in a Vertical Tube. <i>Energy & Fuels</i> , 2014, 28, 466-474.	2.5	157
51	Experimental and analytical studies on the shock wave length in convergent and convergent-divergent nozzle ejectors. <i>Energy Conversion and Management</i> , 2014, 88, 907-914.	4.4	61
52	Bypass ejector with an annular cavity in the nozzle wall to increase the entrainment: Experimental and numerical validation. <i>Energy</i> , 2014, 68, 174-181.	4.5	37
53	Injector Head Transpiration Cooling Coupled with Combustion in H ₂ /O ₂ Subscale Thrust Chamber. <i>Journal of Thermophysics and Heat Transfer</i> , 2013, 27, 42-51.	0.9	30
54	Hybrid vapor compression refrigeration system with an integrated ejector cooling cycle. <i>International Journal of Refrigeration</i> , 2012, 35, 68-78.	1.8	48

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55	Geometry optimization study of ejector in anode recirculation solid oxygen fuel cell system. , 2011, , .		10
56	Control oriented modeling of ejector in anode gas recirculation solid oxygen fuel cell systems. Energy Conversion and Management, 2011, 52, 1881-1889.	4.4	27
57	Numerical analysis of thermal insulation in a cold box of cold neutron source system. , 2010, , .		0
58	Study on thermal stratification in rocket liquid oxygen tank with natural circulation precooling loop. , 2009, , .		1
59	Numerical modeling and analysis of ejector in the proton exchange membrane fuel cell system. , 2009, , .		0
60	Novel ejector model for performance evaluation on both dry and wet vapors ejectors. International Journal of Refrigeration, 2009, 32, 21-31.	1.8	44
61	Numerical and experimental investigation on the thermal insulation performance of low temperature cold box. International Communications in Heat and Mass Transfer, 2009, 36, 908-911.	2.9	8
62	New theoretical model for convergent nozzle ejector in the proton exchange membrane fuel cell system. Journal of Power Sources, 2009, 191, 510-519.	4.0	99
63	Numerical investigation of geometry parameters for design of high performance ejectors. Applied Thermal Engineering, 2009, 29, 898-905.	3.0	264
64	Numerical and experimental investigation of the coupled heat transfer in cold box. , 2009, , .		0
65	Experimental and Numerical Investigation on Humidity Distribution in an Environmental Chamber. Journal of Environment and Engineering, 2009, 4, 326-337.	0.2	3
66	Anode gas recirculation behavior of a fuel ejector in hybrid solid oxide fuel cell systems: Performance evaluation in three operational modes. Journal of Power Sources, 2008, 185, 1122-1130.	4.0	53
67	Simplified ejector model for control and optimization. Energy Conversion and Management, 2008, 49, 1424-1432.	4.4	33
68	Three-Dimensional Numerical Simulation on the Laminar Flow and Heat Transfer in Four Basic Fins of Plate-Fin Heat Exchangers. Journal of Heat Transfer, 2008, 130, .	1.2	43
69	Development of Control Model for Critical Operation Ejector. , 2007, , .		0
70	Shock circle model for ejector performance evaluation. Energy Conversion and Management, 2007, 48, 2533-2541.	4.4	179
71	Fuel ejector design and simulation model for anodic recirculation SOFC system. Journal of Power Sources, 2007, 173, 437-449.	4.0	83