

Jingzhi Zhang

List of Publications by Year in descending order

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51
papers

635
citations

567144

15
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all docs

51
docs citations

51
times ranked

397
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative numerical study on two-phase boiling fluid flow and heat transfer in the microchannel heat sink with different manifold arrangements. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119864.	2.5	43
2	A numerical study of subcooled flow boiling in a manifold microchannel heat sink with varying inlet-to-outlet width ratio. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 554-563.	2.5	42
3	Heat transfer and pressure drop characteristics of gas-liquid Taylor flow in mini ducts of square and rectangular cross-sections. <i>International Journal of Heat and Mass Transfer</i> , 2016, 103, 45-56.	2.5	41
4	A numerical study of condensation heat transfer and pressure drop in horizontal round and flattened minichannels. <i>International Journal of Thermal Sciences</i> , 2016, 106, 80-93.	2.6	40
5	Machine Learning Enabled Prediction of Mechanical Properties of Tungsten Disulfide Monolayer. <i>ACS Omega</i> , 2019, 4, 10121-10128.	1.6	40
6	Numerical simulation of condensation for R410A at varying saturation temperatures in mini/micro tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 464-478.	1.2	36
7	Numerical study on heat transfer and pressure drop characteristics of R410A condensation in horizontal circular mini/micro-tubes. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1809-1819.	0.9	29
8	Investigation of hydrodynamic and heat transfer characteristics of gas-liquid Taylor flow in vertical capillaries. <i>International Communications in Heat and Mass Transfer</i> , 2016, 74, 1-10.	2.9	29
9	Numerical simulation of R410A condensation in horizontal microfin tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 361-376.	1.2	24
10	Experimental Studies of Droplet Formation Process and Length for Liquid-Liquid Two-Phase Flows in a Microchannel. <i>Energies</i> , 2021, 14, 1341.	1.6	22
11	An experimental study of R410A condensation heat transfer and pressure drops characteristics in microfin and smooth tubes with 5 mm OD. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 1284-1295.	2.5	21
12	Studies of gas-liquid two-phase flows in horizontal mini tubes using 3D reconstruction and numerical methods. <i>International Journal of Multiphase Flow</i> , 2020, 133, 103456.	1.6	19
13	Enhancement of Interfacial Thermal Transport between Metal and Organic Semiconductor Using Self-Assembled Monolayers with Different Terminal Groups. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16748-16757.	1.5	18
14	Thermal and flow characterization in nanochannels with tunable surface wettability: A comprehensive molecular dynamics study. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 78, 231-251.	1.2	17
15	The effect of gravity on R410A condensing flow in horizontal circular tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 327-340.	1.2	16
16	Simulation of Single Bubble Evaporation in a Microchannel in Zero Gravity With Thermocapillary Effect. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	16
17	Modeling of laminar filmwise condensation of methane with nitrogen on an isothermal vertical plate. <i>International Communications in Heat and Mass Transfer</i> , 2019, 105, 10-18.	2.9	16
18	Numerical investigation of the bubble growth in horizontal rectangular microchannels. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 1175-1188.	1.2	15

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19	Flow pattern identification for two-phase flow in a U-bend and its contiguous straight tubes. <i>Experimental Thermal and Fluid Science</i> , 2018, 93, 218-234.	1.5	15
20	Molecular dynamics study of anisotropic behaviours of water droplet on textured surfaces with various energies. <i>Molecular Physics</i> , 2021, 119, e1785028.	0.8	12
21	Analysis of thermal performance and pressure loss of subcooled flow boiling in manifold microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120362.	2.5	11
22	Numerical study on pressure drop and heat transfer characteristics of gas-liquid Taylor flow in a microchannel based on FFR method. <i>International Communications in Heat and Mass Transfer</i> , 2020, 117, 104802.	2.9	11
23	Numerical Simulation of Condensation for R410A in Horizontal Round and Flattened Minichannels. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	10
24	Experimental and numerical studies of liquid-liquid slug flows in micro channels with Y-junction inlets. <i>Chemical Engineering Science</i> , 2022, 252, 117289.	1.9	10
25	Experimental and numerical study on filmwise condensation of pure propane and propane/methane mixture. <i>International Journal of Heat and Mass Transfer</i> , 2020, 156, 119744.	2.5	9
26	Numerical studies of gas-liquid Taylor flows in vertical capillaries using CuO/water nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104665.	2.9	9
27	Dewetting transition of water on nanostructured and wettability patterned surfaces: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2021, 336, 116869.	2.3	8
28	Experimental and numerical studies of liquid-liquid two-phase flows in microchannel with sudden expansion/contraction cavities. <i>Chemical Engineering Journal</i> , 2022, 433, 133820.	6.6	8
29	Numerical simulation of condensation for R410A at a different saturation temperature in mini/micro tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 825-840.	1.2	7
30	A 2D numerical study on the condensation characteristics of three non-azeotropic binary hydrocarbon vapor mixtures on a vertical plate. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 2746-2757.	1.7	6
31	An improved method to visualize two regions of interest synchronously in microfluidics. <i>Flow Measurement and Instrumentation</i> , 2020, 72, 101715.	1.0	6
32	Experimental study on liquid-liquid two-phase flow patterns and plug hydrodynamics in a small channel. <i>Experimental Thermal and Fluid Science</i> , 2021, 129, 110455.	1.5	6
33	Experimental Investigation of the Performance and Spray Characteristics of a Supersonic Two-Phase Flow Ejector with Different Structures. <i>Energies</i> , 2020, 13, 1166.	1.6	5
34	Thermal and Flow Characteristics of Water-Nitrogen Taylor Flow Inside Vertical Circular Tubes. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	4
35	Performance comparison of ejectors in ejector-based refrigeration cycles with R1234yf, R1234ze(E) and R134a. <i>Environmental Science and Pollution Research</i> , 2021, 28, 57166-57182.	2.7	4
36	Effects of working conditions on the performance of an ammonia ejector used in an ocean thermal energy conversion system. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2723-2736.	0.9	3

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37	Development and application of a modularized geometry optimizer for future supercritical CO ₂ turbomachinery optimization. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 95-114.	1.5	2
38	Numerical Analysis of Heat Transfer Characteristics for Supercritical Aviation Kerosene. , 2015, , .		1
39	Condensation Heat Transfer and Flow Properties of R134a Refrigerant in Rectangular Minichannel: A Numerical Study. Journal of Thermal Science and Engineering Applications, 2020, 12, .	0.8	1
40	A numerical study on hydrodynamic and heat transfer characteristics of gas-liquid Taylor flow in horizontal mini tubes. Numerical Heat Transfer; Part A: Applications, 2021, 80, 487-504.	1.2	1
41	Numerical study of droplet impact on superhydrophobic vibrating surfaces with microstructures. Case Studies in Thermal Engineering, 2022, 30, 101732.	2.8	1
42	Breakup Dynamics of Droplets in Symmetric Y-Junction Microchannels. Applied Sciences (Switzerland), 2022, 12, 4011.	1.3	1
43	Numerical Simulation of Taylor Flow in Micro Circular Tubes. , 2015, , .		0
44	Numerical Simulation of Convective Heat Transfer Characteristics of Aviation Kerosene Inside Elliptical Tubes Under Supercritical Pressure. , 2016, , .		0
45	Heat Transfer Characteristics of Downward Supercritical Kerosene Flow in Minitubes. , 2016, , .		0
46	Numerical Simulation of Heat Transfer and Pressure Drop Characteristics of Internal Microfin Tubes. , 2016, , .		0
47	Thermal and Flow Characteristics of Water-Nitrogen Taylor Flow Inside Vertical Circular Tubes. , 2016, , .		0
48	Heat Transfer and Pressure Drop Characteristics of Condensation for R410A in a 3.78mm Circular Tube Under Normal and Micro Gravity. , 2016, , .		0
49	Simulation of Single Bubble Growth in a Planar Microchannel With Temperature Recovery Model. , 2017, , .		0
50	Two-Phase Flow and Boiling in Micro/Minichannels and Microfin Tubes. , 2018, , 293-334.		0
51	Numerical Investigation on the Flow Instability of Dispersed Bubbly Flow in a Horizontal Contraction Section. Processes, 2022, 10, 1389.	1.3	0