

Ebrahim Al-Hajri

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

563
citations

840776

11
h-index

1199594

12
g-index

22
all docs

22
docs citations

22
times ranked

409
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling and thermal optimization of a single-phase flow manifold-microchannel plate heat exchanger. International Journal of Heat and Mass Transfer, 2015, 81, 478-489.	4.8	94
2	Single phase heat transfer and pressure drop analysis of a dimpled enhanced tube. Applied Thermal Engineering, 2016, 101, 38-46.	6.0	89
3	Mass transfer characteristics of gas-liquid absorption during Taylor flow in mini/microchannel reactors. Chemical Engineering Science, 2013, 101, 69-80.	3.8	88
4	Geometric optimization for thermal-hydraulic performance of dimpled enhanced tubes for single phase flow. Applied Thermal Engineering, 2016, 103, 639-650.	6.0	62
5	High performance, microarchitected, compact heat exchanger enabled by 3D printing. Applied Thermal Engineering, 2022, 210, 118339.	6.0	59
6	Performance characterization of R134a and R245fa in a high aspect ratio microchannel condenser. International Journal of Refrigeration, 2013, 36, 588-600.	3.4	35
7	Geometric optimization of shell and tube heat exchanger with interstitial twisted tapes outside the tubes applying CFD techniques. Applied Thermal Engineering, 2019, 152, 559-572.	6.0	34
8	Phase field modeling of Taylor flow in mini/microchannels, Part I: Bubble formation mechanisms and phase field parameters. Chemical Engineering Science, 2013, 94, 138-149.	3.8	25
9	Phase field modeling of Taylor flow in mini/microchannels, Part II: Hydrodynamics of Taylor flow. Chemical Engineering Science, 2013, 94, 156-165.	3.8	23
10	Experimental Characterization of a Nickel Alloy-Based Manifold-Microgroove Evaporator. Heat Transfer Engineering, 2015, 36, 33-42.	1.9	19
11	Performance characteristics of a novel shell and tube heat exchanger with shell side interstitial twisted tapes for viscous fluids application. Applied Thermal Engineering, 2018, 134, 248-255.	6.0	16
12	High Performance Micro-Grooved Evaporative Heat Transfer Surface for Low Grade Waste Heat Recovery Applications. , 2011, , .		7
13	Heterogeneous Catalytic Polymerization of Ethylene in Microtubular Reactor Systems. Chemical Engineering and Technology, 2016, 39, 293-300.	1.5	4
14	Analysis of Taylor Flow in Microchannels by the Phase Field Method. , 2011, , .		3
15	A Computer Program for Working Fluid Selection of Low Temperature Organic Rankine Cycle. , 2015, , .		2
16	Studies on Condensation of Refrigerants in a High Aspect Ratio Microchannel and in a Novel Micro-Groove Surface Heat Exchanger: Development of Micro-Condensers in Compact Two Phase Cooling Systems. , 2007, , 109.		1
17	Phase Field Method for Simulation of Multiphase Flow. , 2011, , .		1
18	Numerical Simulation of Mass Transfer Characteristics in a Taylor Flow Microreactor. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
19	Forced Convection Boiling in Microchannels for Improved Heat Transfer. , 2006, , 635.		0
20	Experimental Characterization of Heat Transfer and Pressure Drop Inside a Tubular Evaporator Utilizing Advanced Microgrooved Surfaces. Journal of Thermal Science and Engineering Applications, 2012, 4, .	1.5	0
21	Mass and Heat Transfer Characteristics of a Single-High Aspect Ratio Microchannel Absorber. , 2012, , .		0
22	Detailed Dynamic Model of an Institutional Building in Hot and Humid Climate Conditions. , 2017, , .		0