

Mohammad Hassan Saidi

List of Publications by Year in descending order

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39
papers

577
citations

623734

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39
times ranked

470
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear rate dependent rheology effects on mass transport and surface reactions in biomicrofluidic devices. <i>AICHE Journal</i> , 2015, 61, 1912-1924.	3.6	72
2	Numerical modeling of surface reaction kinetics in electrokinetically actuated microfluidic devices. <i>Analytica Chimica Acta</i> , 2014, 838, 64-75.	5.4	70
3	Electrokinetic mixing at high zeta potentials: Ionic size effects on cross stream diffusion. <i>Journal of Colloid and Interface Science</i> , 2015, 442, 8-14.	9.4	35
4	Experimental investigation of nanofluid stability on thermal performance and flow regimes in pulsating heat pipe. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1835-1847.	3.6	35
5	Open-Loop Pulsating Heat Pipes Charged With Magnetic Nanofluids: Powerful Candidates for Future Electronic Coolers. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2014, 18, 18-38.	2.6	24
6	Rheology effects on cross-stream diffusion in a Y-shaped micromixer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 456, 296-306.	4.7	24
7	Intelligent Image-Based Gas-Liquid Two-Phase Flow Regime Recognition. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012, 134, .	1.5	22
8	Stabilization of the Suspension of Zirconia Microparticle Using the Nanoparticle Halos Mechanism: Zeta Potential Effect. <i>Journal of Dispersion Science and Technology</i> , 2016, 37, 6-13.	2.4	22
9	Joule Heating Effects In Electrokinetically Driven Flow Through Rectangular Microchannels: An Analytical Approach. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2013, 17, 173-193.	2.6	21
10	Ferrofluidic Open Loop Pulsating Heat Pipes: Efficient Candidates for Thermal Management Of Electronics. <i>Experimental Heat Transfer</i> , 2014, 27, 296-312.	3.2	21
11	Unsteady solute dispersion by electrokinetic flow in a polyelectrolyte layer-grafted rectangular microchannel with wall absorption. <i>Journal of Fluid Mechanics</i> , 2020, 887, .	3.4	21
12	Heat transfer and energy analysis of a pusher type reheating furnace using oxygen enhanced air for combustion. <i>Journal of Iron and Steel Research International</i> , 2010, 17, 12-17.	2.8	20
13	Electroosmotic flow and ionic conductance in a pH-regulated rectangular nanochannel. <i>Physics of Fluids</i> , 2017, 29, .	4.0	19
14	Second Law Analysis of Slip Flow Forced Convection Through a Parallel Plate Microchannel. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2010, 14, 209-228.	2.6	15
15	Geometry effect on electrokinetic flow and ionic conductance in pH-regulated nanochannels. <i>Physics of Fluids</i> , 2017, 29, .	4.0	14
16	A depthwise averaging solution for cross-stream diffusion in a Y-micromixer by considering thick electrical double layers and nonlinear rheology. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1297-1308.	2.2	13
17	Pressure effects on electroosmotic flow of power-law fluids in rectangular microchannels. <i>Theoretical and Computational Fluid Dynamics</i> , 2014, 28, 409-426.	2.2	12
18	The role of ion partitioning in electrohydrodynamic characteristics of soft nanofluidics: Inclusion of EDL overlap and steric effects. <i>Chemical Engineering Science</i> , 2018, 190, 443-458.	3.8	12

#	ARTICLE	IF	CITATIONS
19	Design and Performance of a Novel Hybrid Photovoltaic-Thermal Collector with Pulsating Heat Pipe (PVT/PHP). Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 371-381.	1.3	12
20	Tuning Electrokinetic Flow, Ionic Conductance, and Selectivity in a Solid-State Nanopore Modified with a pH-Responsive Polyelectrolyte Brush: A Molecular Theory Approach. Journal of Physical Chemistry C, 2020, 124, 18513-18531.	3.1	12
21	Gaseous Slip Flow Mixed Convection in Vertical Microducts of Constant but Arbitrary Geometry. Journal of Thermophysics and Heat Transfer, 2014, 28, 771-784.	1.6	10
22	Gaseous slip flow forced convection through ordered microcylinders. Microfluidics and Nanofluidics, 2013, 15, 73-85.	2.2	9
23	Gaseous Slip Flow Mixed Convection in Vertical Microducts With Constant Axial Energy Input. Journal of Heat Transfer, 2014, 136, .	2.1	8
24	Tuning the dispersion of reactive solute by steady and oscillatory electroosmotic-Poiseuille flows in polyelectrolyte-grafted micro/nanotubes. Journal of Fluid Mechanics, 2019, 880, 73-112.	3.4	7
25	Semi Analytical Solution to Transient Start of Weakly Underexpanded Turbulent Jet. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	6
26	Buoyancy effects on gaseous slip flow in a vertical rectangular microchannel. Microfluidics and Nanofluidics, 2014, 16, 207-224.	2.2	6
27	Approximate method of determining the optimum cross section of microchannel heat sink. Journal of Mechanical Science and Technology, 2009, 23, 3448-3458.	1.5	5
28	Analysis of Dehumidification Effects on Cooling Capacity of an Evaporative Cooler. Journal of Thermal Science and Technology, 2010, 5, 151-164.	1.1	5
29	Experimental Investigation of Drag and Lift Forces on Microparticles in Low Reynolds Number Poiseuille Flow in Microchannel. Journal of Dispersion Science and Technology, 2016, 37, 1767-1777.	2.4	5
30	Transportation and Settling Distribution of Microparticles in Low-Reynolds-Number Poiseuille Flow in Microchannel. Journal of Dispersion Science and Technology, 2016, 37, 582-594.	2.4	5
31	Gaseous Slip-Flow Mixed Convection Through Ordered Microcylinders. Journal of Thermophysics and Heat Transfer, 2014, 28, 105-117.	1.6	3
32	Pure axial flow of viscoelastic fluids in rectangular microchannels under combined effects of electro-osmosis and hydrodynamics. Theoretical and Computational Fluid Dynamics, 2018, 32, 1-21.	2.2	3
33	Modeling of laser thermal and hydrodynamic effects on a dilute suspension of micro-particles in water. Journal of Mechanical Science and Technology, 2014, 28, 1017-1026.	1.5	2
34	Reduction of production rate in Y-shaped microreactors in the presence of viscoelasticity. Analytica Chimica Acta, 2017, 990, 121-134.	5.4	2
35	Enhanced local viscosity around colloidal nanoparticles probed by Equilibrium Molecular Dynamics Simulations. Journal of Chemical Physics, 2021, 155, 174701.	3.0	2
36	Mean-line model development for off-design performance prediction of transonic axial compressor of an industrial gas turbine based on computational fluid dynamics database. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2022, 236, 1449-1471.	1.4	2

#	ARTICLE	IF	CITATIONS
37	Effect of collision on self-assembly of nanoparticles in zirconia microparticle suspension. Journal of Dispersion Science and Technology, 2020, , 1-9.	2.4	1
38	Experimental investigation of slip velocity and settling distribution of micro-particles in converging“diverging microchannel. Microsystem Technologies, 2017, 23, 3361-3370.	2.0	0
39	An analytical investigation of transient imperfectly expanded turbulent jet. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 0, , 095441002210774.	1.3	0