Rahim Shamsoddini

List of Publications by Year
in descending order

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23	293	1040056	888059
papers	citations	9	17
		h-index	g-index

23	23	23	183
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical analysis of the effects of nozzles number on the flow and power of cooling of a vortex tube. International Journal of Refrigeration, 2010, 33, 774-782.	3.4	73
2	A geometric model for a vortex tube based on numerical analysis to reduce the effect of nozzle number. International Journal of Refrigeration, 2018, 94, 49-58.	3.4	26
3	Incompressible SPH modeling and analysis of non-Newtonian power-law fluids, mixing in a microchannel with an oscillating stirrer. Journal of Mechanical Science and Technology, 2016, 30, 307-316.	1.5	21
4	Numerical three-dimensional analysis of the mechanism of flow and heat transfer in a vortex tube. Thermal Science, 2009, 13, 183-196.	1.1	20
5	A Modified Smoothed Particle Hydrodynamics Scheme to Model the Stationary and Moving Boundary Problems for Newtonian Fluid Flows. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	19
6	A new approach to study and optimize cooling performance of a Ranqueâ€“Hilsch vortex tube. International Journal of Refrigeration, 2012, 35, 2339-2348.	3.4	17
7	Performances of Different Turbulence Models for Simulating Shallow Water Sloshing in Rectangular Tank. Journal of Marine Science and Application, 2020, 19, 381-387.	1.7	17
8	ISPH Modelling and Analysis of Fluid Mixing in a Microchannel with an Oscillating or a Rotating Stirrer. Engineering Applications of Computational Fluid Mechanics, 2014, 8, 289-298.	3.1	13
9	Investigation of the Effects of Baffles on the Shallow Water Sloshing in A Rectangular Tank Using A 2D Turbulent ISPH Method. China Ocean Engineering, 2019, 33, 94-102.	1.6	13
10	Mechanism of reaction of silica and carbon for producing silicon carbide. Progress in Reaction Kinetics and Mechanism, 2020, 45, 146867831989141.	2.1	12
11	Lagrangian simulation and analysis of the micromixing phenomena in a cylindrical paddle mixer using a modified weakly compressible smoothed particle hydrodynamics method. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 112-124.	1.5	9
12	Incompressible Smoothed Particle Hydrodynamics Modeling and Investigation of Fluid Mixing in a Rectangular Stirred Tank with Free Surface. Chemical Engineering Communications, 2017, 204, 563-572.	2.6	9
13	Optimum design for the Tesla micromixer. Microfluidics and Nanofluidics, 2022, 26, .	2.2	9
14	Bingham fluid sloshing phenomenon modelling and investigating in a rectangular tank using SPH method. Ships and Offshore Structures, 2021, 16, 557-566.	1.9	7
15	ISPH modeling and investigation of the effect of viscosity variations on the fluids mixing in a micro-channel due to oscillation of a circular cylinder. Journal of the Taiwan Institute of Chemical Engineers, 2021, 118, 78-86.	5.3	7
16	Multi-objective optimum design for double baffle heat exchangers. Thermal Science and Engineering Progress, 2021, 26, 101132.	2.7	7
17	Lagrangian simulation and analysis of the power-law fluid mixing in the two-blade circular mixers using a modified WCSPH method. Polish Journal of Chemical Technology, 2015, 17, 1-10.	0.5	5
18	SPH investigation of the thermal effects on the fluid mixing in a microchannel with rotating stirrers. Fluid Dynamics Research, 2018, 50, 025509.	1.3	5

#	Article	IF	Citations
19	SPH simulation of the penetrating object in the wet soil. Geomechanics and Geoengineering, 2022, 17, 155-165.	1.8	2
20	Incompressible SPH Modeling of Rotary Micropump Mixers. International Journal of Computational Methods, 2018, 15, 1850019.	1.3	1
21	A predictive formula for the Nusselt number of compressible laminar fluid flow passing the thermal developing zone of a hot tube. Heat Transfer - Asian Research, 2019, 48, 1529-1543.	2.8	1
22	Concentration Reduction of Gas Flaring Emissions Using Deflector Structures: A Case Study of Yadavaran Oil Field. International Journal of Environmental Research, 2022, 16, 1.	2.3	0
23	CFD investigation of the effect of solid particles on the power consumption of a 20-inch centrifugal pump for the transportation of petroleum products. Particulate Science and Technology, 0, , 1-7.	2.1	0