Nader Pourmahmoud

List of Publications by Year
in descending order

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29	322	840776 11	888059 17
papers	citations	h-index	g-index

31	31	31	246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical analysis of the effect of helical nozzles gap on the cooling capacity of Ranqueâ€“Hilsch vortex tube. International Journal of Refrigeration, 2012, 35, 1473-1483.	3.4	38
2	CFD simulation of length to diameter ratio effects on the energy separation in a vortex tube. Thermal Science, 2011, 15, 833-848.	1.1	34
3	CFD analysis of helical nozzles effects on the energy separation in a vortex tube. Thermal Science, 2012, 16, 151-166.	1.1	34
4	Novel architectures of polymer electrolyte membrane fuel cells: Efficiency enhancement and cost reduction. International Journal of Hydrogen Energy, 2015, 40, 12466-12477.	7.1	26
5	A novel, state-of-the-art tubular architecture for polymer electrolyte membrane fuel cells: Performance enhancement, size and cost reduction. International Journal of Heat and Mass Transfer, 2017, 108, 577-584.	4.8	21
6	Thermal behavior and entropy generation rate analysis of a viscous flow in MHD micropumps. Journal of Mechanical Science and Technology, 2012, 26, 1949-1955.	1.5	20
7	Performance improvement of<scp>protonâ€exchange</scp>membrane fuel cells through different gas injection channel geometries. International Journal of Energy Research, 2022, 46, 8781-8792.	4.5	19
8	Numerical simulation of motion and deformation of healthy and sick red blood cell through a constricted vessel using hybrid lattice Boltzmann-immersed boundary method. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 737-749.	1.6	16
9	Three-dimensional numerical analysis of proton exchange membrane fuel cell. Journal of Mechanical Science and Technology, 2011, 25, 2665-2673.	1.5	14
10	A computational study of a three-dimensional proton exchange membrane fuel cell (PEMFC) with conventional and deflected membrane electrode assembly. Journal of Mechanical Science and Technology, 2012, 26, 2959-2968.	1.5	11
11	Numerical simulation of secondary vortex chamber effect on the cooling capacity enhancement of vortex tube. Heat and Mass Transfer, 2014, 50, 1225-1236.	2.1	11
12	A novel, net-shape polymer electrolyte fuel cell: Higher power density, smaller stack size and less bipolar plate required. International Journal of Heat and Mass Transfer, 2018, 117, 1099-1106.	4.8	10
13	Numerical study of mixed convection heat transfer in lid-driven cavity utilizing nanofluid: Effect of type and model of nanofluid. Thermal Science, 2015, 19, 1575-1590.	1.1	10
14	Numerical comparison of viscosity models on mixed convection in double lid-driven cavity utilized CuO-water nanofluid. Thermal Science, 2016, 20, 347-358.	1.1	9
15	Numerical investigation of operating pressure effects on the performance of a vortex tube. Thermal Science, 2014, 18, 507-520.	1.1	8
16	Experimental Investigation of Diameter of Cold End Orifice Effect in Vortex Tube. Journal of Thermophysics and Heat Transfer, 2015, 29, 629-632.	1.6	6
17	A novel CFD simulation of H2 separation by Pd-based helical and straight membrane tubes. Korean Journal of Chemical Engineering, 2020, 37, 2041-2053.	2.7	6
18	Computational fluid dynamics analysis of the influence of injection nozzle lateral outflow on the performance of Ranque-Hilsch vortex tube. Thermal Science, 2014, 18, 1191-1201.	1.1	5

#	Article	IF	Citations
19	Computational fluid dynamics analysis of the effect of throat diameter on the fluid flow and performance of ejector. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 733-752.	2.8	5
20	CFD investigation of inlet pressure effects on the energy separation in a vortex tube with convergent nozzles. Engineering Computations, 2015, 32, 1323-1342.	1.4	4
21	Experimental study on forced convection heat transfer of a nanofluid in a heat exchanger filled partially porous material. Journal of Thermal Analysis and Calorimetry, 2022, 147, 509-523.	3.6	4
22	Numerical Study of Elastic Red Blood Cell Motion and Deformation Using Improved Lattice Boltzmann-Immersed Boundary Method. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 57-73.	1.3	3
23	The effects of longitudinal ribs on entropy generation for laminar forced convection in a microchannel. Thermal Science, 2016, 20, 1963-1972.	1.1	3
24	A parametric study on the performance of a Ranque-Hilsch vortex tube using a CFD-based approach. Mechanics and Industry, 2015, 16, 203.	1.3	2
25	A new algorithm for the simulation of a rarefied gas flow in a rotating cylinder using the consistent Boltzmann algorithm. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2014, 36, 79-89.	1.6	1
26	LES Study of 3D Incompressible Temporal Mixing Layer Using Different Well-Known Subgrid Scale (SGS) Models. Arabian Journal for Science and Engineering, 2014, 39, 5129-5140.	1.1	1
27	Investigating the Effects of Different Inlet Pressures in Each Chamber Simultaneously on the Performance of a Two-Chamber Vortex Tube. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2022, 46, 771-781.	1.3	1
28	Numerical simulation of solid and elastic circular membrane in a simple and dilate microchannel in low Reynolds numbers flows. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4455-4467.	1.6	0
29	Numerical and artificial neural network modeling study on the first-law and second-law performance of a novel helical heat sink filled with waterâ€“silver nanofluid. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2225-2240.	3.6	0