Nader Pourmahmoud

List of Publications by Year
in descending order

29 papers	322 citations	840776 11 h-index	888059 17 g-index
31 all docs	31 docs citations	31 times ranked	246 citing authors

#	Article	IF	Citations
1	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
2	Performance improvement of ‹scp›proton€exchange‹/scp›membrane fuel cells through different gas injection channel geometries. International Journal of Energy Research, 2022, 46, 8781-8792.	4.5	19
3	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
4	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
5	Numerical and artificial neural network modeling study on the first-law and second-law performance of a novel helical heat sink filled with water€"silver nanofluid. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2225-2240.	3.6	0
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	The effects of longitudinal ribs on entropy generation for laminar forced convection in a microchannel. Thermal Science, 2016, 20, 1963-1972.	1.1	3
14	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
15	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
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	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
18	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

#	Article	IF	Citations
19	Numerical investigation of operating pressure effects on the performance of a vortex tube. Thermal Science, 2014, 18, 507-520.	1.1	8
20	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
21	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
22	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
23	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
24	CFD analysis of helical nozzles effects on the energy separation in a vortex tube. Thermal Science, 2012, 16, 151-166.	1.1	34
25	Numerical analysis of the effect of helical nozzles gap on the cooling capacity of Ranque–Hilsch vortex tube. International Journal of Refrigeration, 2012, 35, 1473-1483.	3.4	38
26	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
27	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
28	Three-dimensional numerical analysis of proton exchange membrane fuel cell. Journal of Mechanical Science and Technology, 2011, 25, 2665-2673.	1.5	14
29	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