Iman Zahmatkesh

List of Publications by Year
in descending order

25 papers	564 citations	933447 10 h-index	677142 22 g-index
25 all docs	25 docs citations	25 times ranked	430 citing authors

#	Article	IF	Citations
1	MHD double-diffusive mixed convection of binary nanofluids through a vertical porous annulus considering Buongiornoâ€™s two-phase model. Journal of Thermal Analysis and Calorimetry, 2022, 147, 1793-1807.	3.6	12
2	Effect of nanoparticle shape on the performance of thermal systems utilizing nanofluids: A critical review. Journal of Molecular Liquids, 2021, 321, 114430.	4.9	63
3	Porous foams and nanofluids for thermal performance improvement of a direct absorption solar collector: An experimental study. Environmental Progress and Sustainable Energy, 2021, 40, e13684.	2.3	12
4	Melting process of the nano-enhanced phase change material (NePCM) in an optimized design of shell and tube thermal energy storage (TES): Taguchi optimization approach. Applied Thermal Engineering, 2021, 193, 116945.	6.0	40
5	Stability appraisement of the alumina-brine nanofluid in the presence of ionic and non-ionic disparents on the alumina nanoparticles surface as heat transfer fluids: Quantum mechanical study and Taguchi-optimized experimental analysis. Journal of Molecular Liquids, 2020, 319, 113898.	4.9	8
6	Taguchiâ€“based sensitivity analysis of hydrodynamics and heat transfer of nanofluids in a microchannel heat sink (MCHS) having porous substrates. International Communications in Heat and Mass Transfer, 2020, 118, 104885.	5.6	23
7	Free convection heat transfer analysis of a suspension of nanoâ€“encapsulated phase change materials (NEPCMs) in an inclined porous cavity. International Journal of Thermal Sciences, 2020, 157, 106503.	4.9	157
8	DOUBLE-DIFFUSIVE NATURAL AND MIXED CONVECTION OF BINARY NANOFLUIDS IN POROUS CAVITIES. Journal of Porous Media, 2020, 23, 955-967.	1.9	8
9	Experimental Measurement of Thermophysical Properties of Alumina- MWCNTs/Saltâ€“Water Hybrid Nanofluids. Current Nanoscience, 2020, 16, 734-747.	1.2	4
10	MULTIFLUID DESCRIPTION OF RAREFIED GAS MIXTURE FLOWS. Journal of Thermal Engineering, 2020, 6, 405-421.	1.6	2
11	Optimum constituents for MHD heat transfer of nanofluids within porous cavities. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1669-1681.	3.6	12
12	Scrutiny of Unsteady Flow and Heat Transfer in a Backward-Facing Step Under Pulsating Nanofluid Blowing Using the Eulerian-Eulerian Approach. Journal of Mechanics, 2019, 35, 93-105.	1.4	10
13	Natural and mixed convection of a nanofluid in porous cavities: critical analysis using Buongiornoâ€™s model. Journal of Theoretical and Applied Mechanics, 2019, 57, 221-233.	0.5	13
14	Oscillatory mixed convection in the jet impingement cooling of a horizontal surface immersed in a nanofluid-saturated porous medium. Numerical Heat Transfer; Part A: Applications, 2017, 72, 401-416.	2.1	23
15	On the suitability of the volume-averaging approximation for the description of thermal expansion coefficient of nanofluids. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2015, 229, 2835-2841.	2.1	6
16	New velocity-slip and temperature-jump boundary conditions for Navierâ€“Stokes computation of gas mixture flows in microgeometries. Mechanics Research Communications, 2011, 38, 417-424.	1.8	18
17	Importance of molecular interaction description on the hydrodynamics of gas mixtures. Scientia Iranica, 2011, 18, 1287-1296.	0.4	3
18	Effect of temperature level on parallel mixing of two gas streams. Mechanics Research Communications, 2011, 38, 141-145.	1.8	4

#	Article	IF	Citations
19	Viscous and Inviscid Solutions of Some Gas Mixture Problems. Heat Transfer Research, 2011, 42, 233-250.	1.6	3
20	On the importance of thermal boundary conditions in heat transfer and entropy generation for natural convection inside a porous enclosure. International Journal of Thermal Sciences, 2008, 47, 339-346.	4.9	93
21	On the importance of thermophoresis and Brownian diffusion for the deposition of micro- and nanoparticles. International Communications in Heat and Mass Transfer, 2008, 35, 369-375.	5.6	37
22	Studies on thermal performance of electrical heaters by using porous materials. International Communications in Heat and Mass Transfer, 2006, 33, 259-267.	5.6	5
23	Numerical Simulation of Turbulent Airflow and Particle Deposition in Human Upper Oral Airways. , 2006, , 1733.		0
24	EFFECT OF MAGNETIC FIELD ORIENTATION ON NANOFLUID FREE CONVECTION IN A POROUS CAVITY: A HEAT VISUALIZATION STUDY. Journal of Thermal Engineering, 0, , 170-186.	1.6	7
25	Unsteady natural convection of nano-encapsulated phase change materials (NEPCMs) inside a random porous medium considering local thermal non-equilibrium condition. Waves in Random and Complex Media, 0, , 1-22.	2.7	1