

# Iman Zahmatkesh

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Free convection heat transfer analysis of a suspension of nano-encapsulated phase change materials (NEPCMs) in an inclined porous cavity. <i>International Journal of Thermal Sciences</i> , 2020, 157, 106503.	4.9	157
2	On the importance of thermal boundary conditions in heat transfer and entropy generation for natural convection inside a porous enclosure. <i>International Journal of Thermal Sciences</i> , 2008, 47, 339-346.	4.9	93
3	Effect of nanoparticle shape on the performance of thermal systems utilizing nanofluids: A critical review. <i>Journal of Molecular Liquids</i> , 2021, 321, 114430.	4.9	63
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. <i>Applied Thermal Engineering</i> , 2021, 193, 116945.	6.0	40
5	On the importance of thermophoresis and Brownian diffusion for the deposition of micro- and nanoparticles. <i>International Communications in Heat and Mass Transfer</i> , 2008, 35, 369-375.	5.6	37
6	Oscillatory mixed convection in the jet impingement cooling of a horizontal surface immersed in a nanofluid-saturated porous medium. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 401-416.	2.1	23
7	Taguchi-based sensitivity analysis of hydrodynamics and heat transfer of nanofluids in a microchannel heat sink (MCHS) having porous substrates. <i>International Communications in Heat and Mass Transfer</i> , 2020, 118, 104885.	5.6	23
8	New velocity-slip and temperature-jump boundary conditions for Navier-Stokes computation of gas mixture flows in microgeometries. <i>Mechanics Research Communications</i> , 2011, 38, 417-424.	1.8	18
9	Natural and mixed convection of a nanofluid in porous cavities: critical analysis using Buongiorno's model. <i>Journal of Theoretical and Applied Mechanics</i> , 2019, 57, 221-233.	0.5	13
10	Optimum constituents for MHD heat transfer of nanofluids within porous cavities. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 1669-1681.	3.6	12
11	MHD double-diffusive mixed convection of binary nanofluids through a vertical porous annulus considering Buongiorno's two-phase model. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 1793-1807.	3.6	12
12	Porous foams and nanofluids for thermal performance improvement of a direct absorption solar collector: An experimental study. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, e13684.	2.3	12
13	Scrutiny of Unsteady Flow and Heat Transfer in a Backward-Facing Step Under Pulsating Nanofluid Blowing Using the Eulerian-Eulerian Approach. <i>Journal of Mechanics</i> , 2019, 35, 93-105.	1.4	10
14	Stability appraisalment of the alumina-brine nanofluid in the presence of ionic and non-ionic dispersants on the alumina nanoparticles surface as heat transfer fluids: Quantum mechanical study and Taguchi-optimized experimental analysis. <i>Journal of Molecular Liquids</i> , 2020, 319, 113898.	4.9	8
15	DOUBLE-DIFFUSIVE NATURAL AND MIXED CONVECTION OF BINARY NANOFLLUIDS IN POROUS CAVITIES. <i>Journal of Porous Media</i> , 2020, 23, 955-967.	1.9	8
16	EFFECT OF MAGNETIC FIELD ORIENTATION ON NANOFLLUID FREE CONVECTION IN A POROUS CAVITY: A HEAT VISUALIZATION STUDY. <i>Journal of Thermal Engineering</i> , 0, , 170-186.	1.6	7
17	On the suitability of the volume-averaging approximation for the description of thermal expansion coefficient of nanofluids. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 2835-2841.	2.1	6
18	Studies on thermal performance of electrical heaters by using porous materials. <i>International Communications in Heat and Mass Transfer</i> , 2006, 33, 259-267.	5.6	5

#	ARTICLE	IF	CITATIONS
19	Effect of temperature level on parallel mixing of two gas streams. Mechanics Research Communications, 2011, 38, 141-145.	1.8	4
20	Experimental Measurement of Thermophysical Properties of Alumina- MWCNTs/Salt-Water Hybrid Nanofluids. Current Nanoscience, 2020, 16, 734-747.	1.2	4
21	Importance of molecular interaction description on the hydrodynamics of gas mixtures. Scientia Iranica, 2011, 18, 1287-1296.	0.4	3
22	Viscous and Inviscid Solutions of Some Gas Mixture Problems. Heat Transfer Research, 2011, 42, 233-250.	1.6	3
23	MULTIFLUID DESCRIPTION OF RAREFIED GAS MIXTURE FLOWS. Journal of Thermal Engineering, 2020, 6, 405-421.	1.6	2
24	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
25	Numerical Simulation of Turbulent Airflow and Particle Deposition in Human Upper Oral Airways. , 2006, , 1733.		0