

Habib Aminfar

List of Publications by Year in descending order

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50
papers

1,234
citations

331670

21
h-index

377865

34
g-index

50
all docs

50
docs citations

50
times ranked

910
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study of the ferrofluid flow and heat transfer through a rectangular duct in the presence of a non-uniform transverse magnetic field. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 327, 31-42.	2.3	117
2	A 3D numerical simulation of mixed convection of a magnetic nanofluid in the presence of non-uniform magnetic field in a vertical tube using two phase mixture model. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 1963-1972.	2.3	104
3	Two-phase mixture model simulation of the hydro-thermal behavior of an electrical conductive ferrofluid in the presence of magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 830-842.	2.3	104
4	Numerical investigation of forced convection heat transfer through microchannels with non-Newtonian nanofluids. <i>International Journal of Thermal Sciences</i> , 2014, 75, 76-86.	4.9	74
5	A review on effects of magnetic fields and electric fields on boiling heat transfer and CHF. <i>Applied Thermal Engineering</i> , 2019, 151, 11-25.	6.0	61
6	Experimental investigation of the flow and heat transfer of magnetic nanofluid in a vertical tube in the presence of magnetic quadrupole field. <i>Experimental Thermal and Fluid Science</i> , 2018, 91, 155-165.	2.7	50
7	Development of human respiratory airway models: A review. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 145, 105233.	4.0	50
8	Experimental study on electrohydrodynamically induced heat transfer enhancement in a minichannel. <i>Experimental Thermal and Fluid Science</i> , 2014, 59, 24-31.	2.7	48
9	Investigation of the Velocity Field and Nanoparticle Concentration Distribution of Nanofluid Using Lagrangian-Eulerian Approach. <i>Journal of Dispersion Science and Technology</i> , 2012, 33, 155-163.	2.4	47
10	Numerical study of magnetic field effects on the mixed convection of a magnetic nanofluid in a curved tube. <i>International Journal of Mechanical Sciences</i> , 2014, 78, 81-90.	6.7	43
11	Experimental study on the effect of magnetic field on critical heat flux of ferrofluid flow boiling in a vertical annulus. <i>Experimental Thermal and Fluid Science</i> , 2014, 58, 156-169.	2.7	39
12	Numerical investigation of thermocapillary and buoyancy driven convection of nanofluids in a floating zone. <i>International Journal of Mechanical Sciences</i> , 2012, 65, 147-156.	6.7	32
13	Flow Structure and Particle Deposition Analyses for Optimization of a Pressurized Metered Dose Inhaler (pMDI) in a Model of Tracheobronchial Airway. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 164, 105911.	4.0	32
14	Brownian motion and thermophoresis effects on natural convection of alumina-water nanofluid. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013, 227, 100-110.	2.1	31
15	Experimental investigation of aerosol deposition through a realistic respiratory airway replica: An evaluation for MDI and DPI performance. <i>International Journal of Pharmaceutics</i> , 2019, 566, 157-172.	5.2	31
16	Lattice Boltzmann method for electrowetting modeling and simulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 3852-3868.	6.6	28
17	Numerical Investigation of the Effects of Nanoparticle Diameter on Velocity Field and Nanoparticle Distribution of Nanofluid Using Lagrangian-Eulerian Approach. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 1311-1317.	2.4	26
18	Dry powder inhaler aerosol deposition in a model of tracheobronchial airways: Validating CFD predictions with in vitro data. <i>International Journal of Pharmaceutics</i> , 2020, 587, 119599.	5.2	26

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19	Enhancement of the performance of a NEPCM filled shell-and-multi tube thermal energy storage system using magnetic field: A numerical study. <i>Applied Thermal Engineering</i> , 2020, 178, 115604.	6.0	24
20	Numerical study of non-uniform magnetic fields effects on subcooled nanofluid flow boiling. <i>Progress in Nuclear Energy</i> , 2014, 74, 232-241.	2.9	23
21	Numerical investigation of non-uniform transverse magnetic field effects on the swirling flow boiling of magnetic nanofluid in annuli. <i>International Communications in Heat and Mass Transfer</i> , 2016, 75, 240-252.	5.6	23
22	Numerical simulation of nucleate pool boiling on the horizontal surface for nano-fluid using wall heat flux partitioning method. <i>Computers and Fluids</i> , 2012, 66, 29-38.	2.5	22
23	Two-phase simulation of non-uniform magnetic field effects on biofluid (blood) with magnetic nanoparticles through a collapsible tube. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 332, 172-179.	2.3	16
24	Nanoparticles aggregation in nanofluid flow through nanochannels: Insights from molecular dynamic study. <i>International Journal of Modern Physics C</i> , 2014, 25, 1450066.	1.7	16
25	Multi-objective optimization of a novel biomass-based multigeneration system consisting of liquid natural gas open cycle and proton exchange membrane electrolyzer. <i>International Journal of Energy Research</i> , 2021, 45, 16806-16823.	4.5	15
26	Multi-objective optimization of a novel supercritical CO_2 cycle-based combined cycle for solar power tower plants integrated with SOFC and LNG cold energy and regasification. <i>International Journal of Energy Research</i> , 2022, 46, 12082-12107.	4.5	13
27	Numerical Investigation of the Transient Hydrothermal Behavior of a Ferrofluid Flowing Through a Helical Duct in the Presence of Nonuniform Magnetic Field. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	12
28	3D Numerical Investigation of Thermal Characteristics of Nanofluid Flow through Helical Tubes Using Two-Phase Mixture Model. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2014, 15, 512-521.	2.1	12
29	On flow characteristics of liquid-solid mixed-phase nanofluid inside nanochannels. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 1541-1554.	3.6	11
30	Molecular Dynamics Study of Aggregation in Nanofluid Flow: Effects of Liquid Nanoparticle Interaction Strength and Particles Volume Fraction. <i>International Journal of Applied Mechanics</i> , 2015, 07, 1550010.	2.2	11
31	Numerical investigation of the condensation of a rising bubble inside a subcooled liquid under magnetic field. <i>International Journal of Thermal Sciences</i> , 2021, 160, 106674.	4.9	11
32	The Study of the Effects of Thermophoretic and Brownian Forces on Nanofluid Thermal Conductivity Using Lagrangian and Eulerian Approach. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2010, 14, 187-208.	2.6	9
33	Numerical Investigation of the Magnetic Field Effects on the Entropy Generation and Heat Transfer in a Nanofluid Filled Cavity with Natural Convection. <i>Heat Transfer - Asian Research</i> , 2017, 46, 409-433.	2.8	9
34	Experimental and numerical study of swirling subcooled flow boiling of water in a vertical annulus. <i>Experimental Heat Transfer</i> , 2018, 31, 513-530.	3.2	9
35	Experimental study of the subcooled flow boiling heat transfer of magnetic nanofluid in a vertical tube under magnetic field. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 140, 2805-2816.	3.6	9
36	Implementation of magnetic field force in molecular dynamics algorithm: NAMD source code version 2.12. <i>Journal of Molecular Modeling</i> , 2020, 26, 106.	1.8	8

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37	Droplets Merging and Stabilization by Electrowetting: Lattice Boltzmann Study. Journal of Adhesion Science and Technology, 2012, 26, 1853-1871.	2.6	7
38	Lattice Boltzmann simulation of droplet base electrowetting. International Journal of Computational Fluid Dynamics, 2010, 24, 143-156.	1.2	6
39	Numerical simulations of the influence of Brownian and gravitational forces on the stability of CuO nanoparticles by the Eulerian-Lagrangian approach. Heat Transfer - Asian Research, 2018, 47, 72-87.	2.8	6
40	Eulerian simulation of subcooled boiling flow in straight and curved annuli. Journal of Mechanical Science and Technology, 2013, 27, 1295-1304.	1.5	5
41	Concentration polarization effects on the macromolecular transport in the presence of non-uniform magnetic field: A numerical study using a lumen-wall model. Journal of Magnetism and Magnetic Materials, 2014, 356, 111-119.	2.3	3
42	Molecular Dynamics Study of Ferrofluid Flow Inside Nanochannels Under Magnetic Fields. Journal of Computational and Theoretical Nanoscience, 2015, 12, 2339-2347.	0.4	3
43	Computational modeling of geometry effects on the IDL surface concentration in the presence of non-uniform magnetic field - links to atherosclerosis. Journal of Magnetism and Magnetic Materials, 2016, 398, 38-48.	2.3	2
44	Experimental study of the effects of quadrupole magnetic field and hydro-thermal parameters on bubble departure diameter and frequency in a vertical annulus. Experimental Heat Transfer, 2022, 35, 341-368.	3.2	2
45	Mechanobiology of LDL mass transport in the arterial wall under the effect of magnetic field, part I: Diffusion rate. Journal of Magnetism and Magnetic Materials, 2017, 426, 569-574.	2.3	1
46	Numerical investigation of nonuniform transverse magnetic field effects on the flow and heat transfer of magnetic nanofluid in a sintered porous channel. Heat Transfer - Asian Research, 2019, 48, 3790-3811.	2.8	1
47	Molecular dynamics simulation of the magnetic field influence on the oil-water interface. Fluid Phase Equilibria, 2020, 522, 112761.	2.5	1
48	Bubble Lift-Off Diameter and Frequency in Ferrofluid Subcooled Flow Boiling. Heat Transfer Engineering, 2023, 44, 512-529.	1.9	1
49	Numerical study of the effects of internal and external forces on the nanoparticle mixing in a ferrofluid flow. Heat Transfer - Asian Research, 2019, 48, 2007-2028.	2.8	0
50	Numerical investigation of blood flow and red blood cell rheology: the magnetic field effect. Electromagnetic Biology and Medicine, 2022, , 1-13.	1.4	0