

# Habib Aminfar

## List of Publications by Citations

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49  
papers

874  
citations

18  
h-index

28  
g-index

50  
ext. papers

1,033  
ext. citations

3.1  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
49	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> , <b>2013</b> , 327, 31-42	2.8	103
48	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> , <b>2012</b> , 324, 830-842	2.8	88
47	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> , <b>2011</b> , 323, 1963-1972	2.8	86
46	Numerical investigation of forced convection heat transfer through microchannels with non-Newtonian nanofluids. <i>International Journal of Thermal Sciences</i> , <b>2014</b> , 75, 76-86	4.1	58
45	Investigation of the Velocity Field and Nanoparticle Concentration Distribution of Nanofluid Using Lagrangian-Eulerian Approach. <i>Journal of Dispersion Science and Technology</i> , <b>2012</b> , 33, 155-163	1.5	43
44	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> , <b>2014</b> , 78, 81-90	5.5	39
43	Experimental study on electrohydrodynamically induced heat transfer enhancement in a minichannel. <i>Experimental Thermal and Fluid Science</i> , <b>2014</b> , 59, 24-31	3	35
42	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> , <b>2018</b> , 91, 155-165	3	30
41	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> , <b>2014</b> , 58, 156-169	3	30
40	Numerical investigation of thermocapillary and buoyancy driven convection of nanofluids in a floating zone. <i>International Journal of Mechanical Sciences</i> , <b>2012</b> , 65, 147-156	5.5	28
39	A review on effects of magnetic fields and electric fields on boiling heat transfer and CHF. <i>Applied Thermal Engineering</i> , <b>2019</b> , 151, 11-25	5.8	26
38	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> , <b>2013</b> , 227, 100-110	1.3	25
37	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> , <b>2011</b> , 32, 1311-1317	1.5	25
36	Lattice Boltzmann method for electrowetting modeling and simulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2009</b> , 198, 3852-3868	5.7	23
35	Development of human respiratory airway models: A review. <i>European Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 145, 105233	5.1	20
34	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> , <b>2016</b> , 75, 240-252	5.8	20
33	Numerical simulation of nucleate pool boiling on the horizontal surface for nano-fluid using wall heat flux partitioning method. <i>Computers and Fluids</i> , <b>2012</b> , 66, 29-38	2.8	19

32	Numerical study of non-uniform magnetic fields effects on subcooled nanofluid flow boiling. <i>Progress in Nuclear Energy</i> , <b>2014</b> , 74, 232-241	2.3	18
31	Experimental investigation of aerosol deposition through a realistic respiratory airway replica: An evaluation for MDI and DPI performance. <i>International Journal of Pharmaceutics</i> , <b>2019</b> , 566, 157-172	6.5	14
30	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> , <b>2013</b> , 332, 172-179	2.8	13
29	Dry powder inhaler aerosol deposition in a model of tracheobronchial airways: Validating CFD predictions with in vitro data. <i>International Journal of Pharmaceutics</i> , <b>2020</b> , 587, 119599	6.5	12
28	Nanoparticles aggregation in nanofluid flow through nanochannels: Insights from molecular dynamic study. <i>International Journal of Modern Physics C</i> , <b>2014</b> , 25, 1450066	1.1	10
27	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> , <b>2021</b> , 164, 105911	5.1	10
26	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> , <b>2014</b> , 136,	1.8	9
25	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> , <b>2020</b> , 178, 115604	5.8	8
24	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> , <b>2014</b> , 15, 512-521	0.7	8
23	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> , <b>2010</b> , 14, 187-208	3.7	8
22	Experimental and numerical study of swirling subcooled flow boiling of water in a vertical annulus. <i>Experimental Heat Transfer</i> , <b>2018</b> , 31, 513-530	2.4	6
21	On flow characteristics of liquid-solid mixed-phase nanofluid inside nanochannels. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2014</b> , 35, 1541-1554	3.2	6
20	Lattice Boltzmann simulation of droplet base electrowetting. <i>International Journal of Computational Fluid Dynamics</i> , <b>2010</b> , 24, 143-156	1.2	6
19	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> , <b>2017</b> , 46, 409-433	2.8	5
18	Numerical simulations of the influence of Brownian and gravitational forces on the stability of CuO nanoparticles by the Eulerian-Lagrangian approach. <i>Heat Transfer - Asian Research</i> , <b>2018</b> , 47, 72-87	2.8	5
17	Droplets Merging and Stabilization by Electrowetting: Lattice Boltzmann Study. <i>Journal of Adhesion Science and Technology</i> , <b>2012</b> , 26, 1853-1871	2	5
16	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> , <b>2020</b> , 140, 2805-2816	4.1	5
15	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> , <b>2015</b> , 07, 1550010	2.4	4

14	Eulerian simulation of subcooled boiling flow in straight and curved annuli. <i>Journal of Mechanical Science and Technology</i> , <b>2013</b> , 27, 1295-1304	1.6	4
13	Numerical investigation of the condensation of a rising bubble inside a subcooled liquid under magnetic field. <i>International Journal of Thermal Sciences</i> , <b>2021</b> , 160, 106674	4.1	4
12	Concentration polarization effects on the macromolecular transport in the presence of non-uniform magnetic field: A numerical study using a lumen-wall model. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 356, 111-119	2.8	3
11	Molecular Dynamics Study of Ferrofluid Flow Inside Nanochannels Under Magnetic Fields. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2015</b> , 12, 2339-2347	0.3	3
10	Implementation of magnetic field force in molecular dynamics algorithm: NAMD source code version 2.12. <i>Journal of Molecular Modeling</i> , <b>2020</b> , 26, 106	2	3
9	Computational modeling of geometry effects on the IDL surface concentration in the presence of non-uniform magnetic field links to atherosclerosis. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2016</b> , 398, 38-48	2.8	2
8	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> , <b>2021</b> , 45, 16806-16823	4.5	2
7	Mechanobiology of LDL mass transport in the arterial wall under the effect of magnetic field, part I: Diffusion rate. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2017</b> , 426, 569-574	2.8	1
6	Numerical investigation of nonuniform transverse magnetic field effects on the flow and heat transfer of magnetic nanofluid in a sintered porous channel. <i>Heat Transfer - Asian Research</i> , <b>2019</b> , 48, 3790-3811	2.8	1
5	Molecular dynamics simulation of the magnetic field influence on the oil-water interface. <i>Fluid Phase Equilibria</i> , <b>2020</b> , 522, 112761	2.5	0
4	Numerical study of the effects of internal and external forces on the nanoparticle mixing in a ferrofluid flow. <i>Heat Transfer - Asian Research</i> , <b>2019</b> , 48, 2007-2028	2.8	
3	Numerical investigation of blood flow and red blood cell rheology: the magnetic field effect.. <i>Electromagnetic Biology and Medicine</i> , <b>2022</b> , 1-13	2.2	
2	Experimental study of the effects of quadrupole magnetic field and hydro-thermal parameters on bubble departure diameter and frequency in a vertical annulus. <i>Experimental Heat Transfer</i> , 1-28	2.4	
1	Bubble lift-off diameter and frequency in ferrofluid subcooled flow boiling. <i>Heat Transfer Engineering</i> , 1-21	1.7	