Mohsen Nazari

List of Publications by Year
in descending order

58 papers	1,366 citations	279798 23 h-index	345221 36 g-index
58 all docs	58 docs citations	58 times ranked	1163 citing authors

#	Article	IF	Citations
1	Experimental study of convective heat transfer and pressure drop of TiO2/water nanofluid. International Communications in Heat and Mass Transfer, 2012, 39, 456-462.	5.6	159
2	Comparing the thermal performance of water, Ethylene Glycol, Alumina and CNT nanofluids in CPU cooling: Experimental study. Experimental Thermal and Fluid Science, 2014, 57, 371-377.	2.7	115
3	Experimental study of convective heat transfer of a nanofluid through a pipe filled with metal foam. International Journal of Thermal Sciences, 2015, 88, 33-39.	4.9	84
4	Forced Convection Heat Transfer of Nanofluids in a Porous Channel. Transport in Porous Media, 2012, 93, 401-413.	2.6	65
5	Power-law fluid flow and heat transfer in a channel with a built-in porous square cylinder: Lattice Boltzmann simulation. Journal of Non-Newtonian Fluid Mechanics, 2014, 204, 38-49.	2.4	55
6	Sedimentation of elliptical particles using Immersed Boundary â€" Lattice Boltzmann Method: A complementary repulsive force model. Journal of Molecular Liquids, 2018, 262, 180-193.	4.9	55
7	Non-Newtonian particulate flow simulation: A direct-forcing immersed boundaryâ€"lattice Boltzmann approach. Physica A: Statistical Mechanics and Its Applications, 2016, 447, 1-20.	2.6	53
8	HEAT TRANSFER ENHANCEMENT IN A CHANNEL PARTIALLY FILLED WITH A POROUS BLOCK: LATTICE BOLTZMANN METHOD. International Journal of Modern Physics C, 2013, 24, 1350060.	1.7	44
9	An immersed boundary-lattice Boltzmann method combined with a robust lattice spring model for solving flowâ€"structure interaction problems. Applied Mathematical Modelling, 2018, 55, 502-521.	4.2	42
10	3D experimental visualization of water flooding in proton exchange membrane fuel cells. Energy, 2019, 175, 967-977.	8.8	42
11	Lattice Boltzmann simulation of double diffusive natural convection in a square cavity with a hot square obstacle. Chinese Journal of Chemical Engineering, 2015, 23, 22-30.	3.5	41
12	Comparative study of forced convection of a power-law fluid in a channel with a built-in square cylinder. Journal of Applied Mechanics and Technical Physics, 2016, 57, 55-68.	0.5	40
13	Direct-forcing immersed boundary â€" non-Newtonian lattice Boltzmann method for transient non-isothermal sedimentation. Journal of Aerosol Science, 2017, 104, 106-122.	3.8	40
14	Increasing the performance of gas diffusion layer by insertion of small hydrophilic layer in proton-exchange membrane fuel cells. International Journal of Hydrogen Energy, 2018, 43, 2410-2428.	7.1	39
15	Immersed Boundary â€" Thermal Lattice Boltzmann Methods for Non-Newtonian Flows Over a Heated Cylinder: A Comparative Study. Communications in Computational Physics, 2015, 18, 489-515.	1.7	35
16	Thermal characteristics of CPU cooling by using a novel porous heat sink and nanofluids. Journal of Thermal Analysis and Calorimetry, 2019, 138, 805-817.	3.6	35
17	Non-Newtonian unconfined flow and heat transfer over a heated cylinder using the direct-forcing immersed boundaryâ€"thermal lattice Boltzmann method. Physical Review E, 2014, 89, 053312.	2.1	34
18	A non-Newtonian direct numerical study for stationary and moving objects with various shapes: An immersed boundary â€" Lattice Boltzmann approach. Journal of Aerosol Science, 2016, 93, 45-62.	3.8	34

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19	Natural convection and entropy generation analysis inside a channel with a porous plate mounted as a cooling system. Thermal Science and Engineering Progress, 2018, 6, 186-193.	2.7	33
20	Immersed boundaryâ€"thermal lattice Boltzmann method for the moving simulation of non-isothermal elliptical particles. Journal of Thermal Analysis and Calorimetry, 2019, 138, 4003-4017.	3.6	32
21	Drop formation of ferrofluid at co-flowing microcahnnel under uniform magnetic field. European Journal of Mechanics, B/Fluids, 2018, 67, 87-96.	2.5	29
22	On the effect of mucus rheology on the muco-ciliary transport. Mathematical Biosciences, 2016, 272, 44-53.	1.9	27
23	Developing a fast and tunable micro-mixer using induced vortices around a conductive flexible link. Physics of Fluids, 2017, 29, .	4.0	27
24	Experimental study of the effects of surfactant material and hydrocarbon agent on foam stability with the approach of enhanced oil recovery. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 585, 124047.	4.7	18
25	Experimental analysis of turbulent convective heat transfer and pressure drop of Al2O3/water nanofluid in horizontal tube. Micro and Nano Letters, 2012, 7, 223.	1.3	16
26	Numerical simulation of muco-ciliary clearance: immersed boundary-lattice Boltzmann method. Computers and Fluids, 2016, 131, 91-101.	2.5	16
27	Natural Convection Induced by a Heated Vertical Plate Embedded in a Porous Medium with Transpiration: Local Thermal Non-equilibrium Similarity Solutions. Transport in Porous Media, 2013, 98, 223-238.	2.6	13
28	Effects of Particle Migration on Nanofluid Forced Convection Heat Transfer in a Local Thermal Non-Equilibrium Porous Channel. Journal of Nanofluids, 2014, 3, 51-59.	2.7	12
29	Numerical investigation on falling ferrofluid droplet under uniform magnetic field. European Journal of Mechanics, B/Fluids, 2018, 72, 1-11.	2.5	11
30	Droplet size prediction in a microfluidic flow focusing device using an adaptive network based fuzzy inference system. Biomedical Microdevices, 2020, 22, 61.	2.8	11
31	New models for heat flux splitting at the boundary of a porous medium: three energy equations for nanofluid flow under local thermal nonequilibrium conditions. Canadian Journal of Physics, 2014, 92, 1312-1319.	1.1	10
32	Cooling of an electronic board situated in various configurations inside an enclosure: lattice Boltzmann method. Meccanica, 2014, 49, 645-658.	2.0	10
33	A systematic overview of electrode configuration in electricâ€driven micropumps. Electrophoresis, 2022, 43, 1476-1520.	2.4	9
34	Free Convection Heat Transfer over a Vertical Cylinder in a Saturated Porous Medium Using a Local Thermal Non-equilibrium Model. Transport in Porous Media, 2012, 93, 453-460.	2.6	8
35	Effect of Obstacle Type on Methaneâ€"Air Flame Propagation in a Closed Duct: An Experimental Study. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	8
36	Analytical Solution of Nonequilibrium Heat Conduction in Porous Medium Incorporating a Variable Porosity Model With Heat Generation. Journal of Heat Transfer, 2009, 131, .	2.1	6

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37	The Effects of Fluid-to-Solid Conductivity Ratio, Rayleigh Number and Interstitial Heat Transfer Coefficient on the TNE Free Convection in a Porous Enclosure. Transport in Porous Media, 2011, 87, 625-633.	2.6	6
38	Lattice Boltzmann simulation of natural convection in open end cavity with inclined hot wall. Applied Mathematics and Mechanics (English Edition), 2015, 36, 523-540.	3.6	6
39	Fluid physics around conductive deformable flaps within an induced-charge electrokinetically driven microsystem. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	6
40	Analysis of Thermal Nonequilibrium Inverse Heat Transfer in a Porous Channel. Numerical Heat Transfer; Part A: Applications, 2010, 57, 54-68.	2.1	5
41	Unsteady heat transfer from a reservoir fluid by employing metal foam tube, helically tube and straight tube: A comparative experimental study. Applied Thermal Engineering, 2017, 111, 39-48.	6.0	5
42	PREDICTING THE PENETRATION AND NAVIGATING THE MOTION OF A LIQUID DROP IN A LAYERED POROUS MEDIUM: VISCOUS FINGERING VS. CAPILLARY FINGERING. Brazilian Journal of Chemical Engineering, 2018, 35, 731-744.	1.3	5
43	Comparison of the Mollification and Wavelet Prefiltering of Temperature Data in an Ill-Posed Inverse Heat Conduction Problem, Application: Nonthermal Equilibrium Porous Medium. Heat Transfer Engineering, 2012, 33, 704-711.	1.9	4
44	Control of convective heat transfer by changing the right-angle position and the base angle of triangular storages: lattice Boltzmann simulation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 149-161.	1.6	4
45	Flow characteristics prediction in a flow-focusing microchannel for a desired droplet size using an inverse model: experimental and numerical study. Microfluidics and Nanofluidics, 2022, 26, 1.	2.2	4
46	Tailored Surface Wettability of Gas Diffusion Layer in Polymer Electrolyte Membrane Fuel Cells: Proposing a Pore Scaleâ€Two Phase Design. Fuel Cells, 2018, 18, 698-710.	2.4	3
47	Immersed boundary-lattice Boltzmann method for simulation of muco-ciliary transport: effect of mucus depth at various amounts of cilia beat frequency. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012065.	0.6	2
48	Experimental study and visualization of impacting spherical hydrophobic particles on an air â€" Liquid interface: Newtonian and Boger liquid analysis. Chemical Engineering Science, 2021, 229, 116155.	3.8	2
49	NOVEL SIMILARITY-SOLUTION WHICH IS APPLICABLE FOR FREE CONVECTION OVER A BODY OF ARBITRARY SHAPE: THERMAL NON-EQUILIBRIUM IN A POROUS MEDIUM. Brazilian Journal of Chemical Engineering, 2015, 32, 225-235.	1.3	1
50	The effects of grain geometry on waterflooding and viscous fingering in micro-fractures and porous media from a lattice Boltzmann method study. Molecular Simulation, 2018, 44, 708-721.	2.0	1
51	Proposing a lattice spring damper model for simulation of interaction between elastic/ viscoelastic filaments and fluid flow in immersed boundary-lattice Boltzmann framework. Journal of Molecular Liquids, 2019, 296, 111969.	4.9	1
52	Direct numerical simulation of freely falling particles by hybrid immersed boundary â€" Lattice Boltzmann â€" discrete element method. Particulate Science and Technology, 2020, 38, 286-298.	2.1	1
53	Thermal non-equilibrium heat transfer in a porous cavity in the presence of bio-chemical heat source. Thermal Science, 2015, 19, 579-590.	1.1	1
54	Visualization of Flame Propagation and Quenching of Methane/Air Mixture in a cubic enclosure with Perforated Plates: Experimental Study. Combustion Science and Technology, 0, , 1-20.	2.3	1

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55	Heat Transfer and Fluid Flow in Porous Media With Two Equations Non-Darcian Model. , 2005, , 637.		0
56	A FEASIBILITY STUDY OF EMPLOYING SEQUENTIAL FUNCTION SPECIFICATION METHOD FOR ESTIMATION OF TRANSIENT HEAT FLUX IN A NON-THERMAL EQUILIBRIUM POROUS CHANNEL. Journal of Porous Media, 2011, 14, 375-381.	1.9	0
57	A NEW APPROACH FOR POROSITY ESTIMATION IN A MULTILAYER POROUS CHANNEL USING NONLINEAR CONJUGATE GRADIENTS METHOD. Journal of Porous Media, 2012, 15, 63-72.	1.9	0
58	NATURAL CONVECTION HEAT TRANSFER IN A POROUS CAVITY IN THE PRESENCE OF A BIOCHEMICAL HEAT SOURCE WHICH IS DEPENDENT ON SOLUTE CONCENTRATION GENERATION RATE. Journal of Porous Media, 2012, 15, 383-392.	1.9	0