

Gholamreza Kefayati

List of Publications by Year in Descending Order

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Version: 2024-04-25

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

3,507
citations

39
h-index

58
g-index

77
ext. papers

3,851
ext. citations

4.3
avg, IF

6.99
L-index

#	Paper	IF	Citations
77	A two- and three-dimensional mesoscopic method for an updated non-homogeneous model of Newtonian and non-Newtonian nanofluids. <i>Physics of Fluids</i> , 2022 , 34, 032003	4.4	5
76	A lattice Boltzmann method for single- and two-phase models of nanofluids: Newtonian and non-Newtonian nanofluids. <i>Physics of Fluids</i> , 2021 , 33, 102008	4.4	9
75	A mesoscopic model for thermal-solutal problems of power-law fluids through porous media. <i>Physics of Fluids</i> , 2021 , 33, 033114	4.4	12
74	A comparative experimental investigation of energetic and exergetic performances of water/magnetite nanofluid-based photovoltaic/thermal system equipped with finned and unfinned collectors. <i>Energy</i> , 2021 , 220, 119714	7.9	14
73	Evaporative Cooling Integrated with Solid Desiccant Systems: A Review. <i>Energies</i> , 2021 , 14, 5982	3.1	1
72	Study on Surface Condensate Water Removal and Heat Transfer Performance of a Minichannel Heat Exchanger. <i>Energies</i> , 2020 , 13, 1065	3.1	4
71	Energy and Exergy Analysis of Using Turbulator in a Parabolic Trough Solar Collector Filled with Mesoporous Silica Modified with Copper Nanoparticles Hybrid Nanofluid. <i>Energies</i> , 2020 , 13, 2946	3.1	18
70	An immersed boundary-lattice Boltzmann method for thermal and thermo-solutal problems of Newtonian and non-Newtonian fluids. <i>Physics of Fluids</i> , 2020 , 32, 073103	4.4	16
69	Study of effect of heat transfer in an air storage vessel on performance of a pumped hydro compressed air energy storage system. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119119	4.9	16
68	Lattice Boltzmann method for natural convection of a Bingham fluid in a porous cavity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 521, 146-172	3.3	12
67	Lattice Boltzmann simulation of double-diffusive natural convection of viscoplastic fluids in a porous cavity. <i>Physics of Fluids</i> , 2019 , 31, 013105	4.4	42
66	Thermosolutal natural convection of viscoplastic fluids in an open porous cavity. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 401-419	4.9	25
65	Three-dimensional Lattice Boltzmann simulation on thermosolutal convection and entropy generation of Carreau-Yasuda fluids. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 131, 346-364	4.9	37
64	MHD mixed convection of viscoplastic fluids in different aspect ratios of a lid-driven cavity using LBM. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 344-367	4.9	20
63	Lattice Boltzmann simulation of viscoplastic fluids on natural convection in inclined enclosure with inner cold circular/elliptical cylinders (Part II: Two cylinders). <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 1163-1181	4.9	11
62	Lattice Boltzmann simulation of viscoplastic fluids on natural convection in inclined enclosure with inner cold circular/elliptical cylinders (Part III: Four cylinders). <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 1182-1203	4.9	8
61	Mesoscopic simulation of double-diffusive natural convection and entropy generation of Bingham fluid in an open cavity. <i>European Journal of Mechanics, B/Fluids</i> , 2018 , 69, 1-45	2.4	12

60	Lattice Boltzmann simulation of viscoplastic fluids on natural convection in an inclined enclosure with inner cold circular/elliptical cylinders (Part I: One cylinder). <i>International Journal of Heat and Mass Transfer</i> , 2018 , 123, 1138-1162	4.9	16
59	Double-diffusive natural convection and entropy generation of Carreau fluid in a heated enclosure with an inner circular cold cylinder (Part I: Heat and mass transfer). <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 731-750	4.9	35
58	Double-diffusive laminar natural convection and entropy generation of Carreau fluid in a heated enclosure with an inner circular cold cylinder (Part II: Entropy generation). <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 683-713	4.9	30
57	Double-diffusive natural convection and entropy generation of Bingham fluid in an inclined cavity. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 762-812	4.9	45
56	MHD thermosolutal natural convection and entropy generation of Carreau fluid in a heated enclosure with two inner circular cold cylinders, using LBM. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 126, 508-530	4.9	51
55	A particle distribution function approach to the equations of continuum mechanics in Cartesian, cylindrical and spherical coordinates: Newtonian and non-Newtonian fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2018 , 251, 119-131	2.7	29
54	Immersed Boundary-Finite Difference Lattice Boltzmann method through fluid-structure interaction for viscoplastic fluids. <i>Journal of Fluids and Structures</i> , 2018 , 83, 238-258	3.1	5
53	A lattice Boltzmann model for thermal non-Newtonian fluid flows through porous media. <i>Computers and Fluids</i> , 2018 , 176, 226-244	2.8	28
52	Mixed convection of non-Newtonian nanofluid in an enclosure using Buongiorno's mathematical model. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 1481-1500	4.9	61
51	Lattice Boltzmann method for the simulation of the steady flow of a Bingham fluid in a pipe of square cross-section. <i>European Journal of Mechanics, B/Fluids</i> , 2017 , 65, 412-422	2.4	23
50	Simulation of natural convection and entropy generation of non-Newtonian nanofluid in a porous cavity using Buongiorno's mathematical model. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 112, 709-744	4.9	65
49	Simulation of natural convection and entropy generation of MHD non-Newtonian nanofluid in a cavity using Buongiorno's mathematical model. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 17284-17324 ⁴⁸	6.7	48
48	Simulation of natural convection and entropy generation of non-Newtonian nanofluid in an inclined cavity using Buongiorno's mathematical model (Part II, entropy generation). <i>Powder Technology</i> , 2017 , 305, 679-703	5.2	56
47	Soret and Dufour effects on double diffusive mixed convection of Newtonian and shear-thinning fluids in a two sided lid-driven cavity. <i>Engineering Computations</i> , 2016 , 33, 2117-2148	1.4	2
46	Simulation of double diffusive MHD (magnetohydrodynamic) natural convection and entropy generation in an open cavity filled with power-law fluids in the presence of Soret and Dufour effects (Part I: Study of fluid flow, heat and mass transfer). <i>Energy</i> , 2016 , 107, 889-916	7.9	34
45	Simulation of double diffusive MHD (magnetohydrodynamic) natural convection and entropy generation in an open cavity filled with power-law fluids in the presence of Soret and Dufour effects (part II: entropy generation). <i>Energy</i> , 2016 , 107, 917-959	7.9	38
44	Simulation of double diffusive natural convection and entropy generation of power-law fluids in an inclined porous cavity with Soret and Dufour effects (Part II: Entropy generation). <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 582-624	4.9	63
43	Simulation of double diffusive natural convection and entropy generation of power-law fluids in an inclined porous cavity with Soret and Dufour effects (Part I: Study of fluid flow, heat and mass transfer). <i>International Journal of Heat and Mass Transfer</i> , 2016 , 94, 539-581	4.9	58

42	Simulation of heat transfer and entropy generation of MHD natural convection of non-Newtonian nanofluid in an enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 1066-1089	4.9	131
41	MHD Turbulent and Laminar Natural Convection in a Square Cavity utilizing Lattice Boltzmann Method. <i>Heat Transfer - Asian Research</i> , 2016 , 45, 795-814	2.8	26
40	Heat transfer and entropy generation of natural convection on non-Newtonian nanofluids in a porous cavity. <i>Powder Technology</i> , 2016 , 299, 127-149	5.2	122
39	From mesoscopic models to continuum mechanics: Newtonian and non-newtonian fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016 , 233, 146-154	2.7	40
38	A review on why researchers apply external magnetic field on nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 78, 60-67	5.8	70
37	Recent progress on hybrid nanofluids in heat transfer applications: A comprehensive review. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 78, 68-79	5.8	230
36	Lattice Boltzmann Method for simulation of mixed convection of a Bingham fluid in a lid-driven cavity. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 725-743	4.9	37
35	FDLBM simulation of double-diffusive mixed convection of shear-thinning fluids between two-square concentric duct annuli. <i>Heat and Mass Transfer</i> , 2015 , 51, 1505-1521	2.2	11
34	Simulation of vertical and horizontal magnetic fields effects on non-Newtonian power-law fluids in an internal flow using FDLBM. <i>Computers and Fluids</i> , 2015 , 114, 12-25	2.8	18
33	FDLBM simulation of mixed convection in a lid-driven cavity filled with non-Newtonian nanofluid in the presence of magnetic field. <i>International Journal of Thermal Sciences</i> , 2015 , 95, 29-46	4.1	101
32	Mesoscopic simulation of mixed convection on non-Newtonian nanofluids in a two sided lid-driven enclosure. <i>Advanced Powder Technology</i> , 2015 , 26, 576-588	4.6	58
31	Mesoscopic simulation of magnetic field effect on Bingham fluid in an internal flow. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 54, 1-10	5.3	13
30	Natural convection problem in a Bingham fluid using the operator-splitting method. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2015 , 220, 22-32	2.7	59
29	Mesoscopic simulation of magnetic field effect on natural convection of power-law fluids in a partially heated cavity. <i>Chemical Engineering Research and Design</i> , 2015 , 94, 337-354	5.5	39
28	FDLBM simulation of entropy generation in double diffusive natural convection of power-law fluids in an enclosure with Soret and Dufour effects. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 267-290	4.9	56
27	FDLBM simulation of magnetic field effect on mixed convection in a two sided lid-driven cavity filled with non-Newtonian nanofluid. <i>Powder Technology</i> , 2015 , 280, 135-153	5.2	54
26	FDLBM simulation of entropy generation due to natural convection in an enclosure filled with non-Newtonian nanofluid. <i>Powder Technology</i> , 2015 , 273, 176-190	5.2	68
25	Magnetic field effect on heat and mass transfer of mixed convection of shear-thinning fluids in a lid-driven enclosure with non-uniform boundary conditions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015 , 51, 20-33	5.3	34

24	Natural convection of ferrofluid in a linearly heated cavity utilizing LBM. <i>Journal of Molecular Liquids</i> , 2014 , 191, 1-9	6	113
23	FDLBM simulation of magnetic field effect on natural convection of non-Newtonian power-law fluids in a linearly heated cavity. <i>Powder Technology</i> , 2014 , 256, 87-99	5.2	47
22	Simulation of magnetic field effect on non-Newtonian blood flow between two-square concentric duct annuli using FDLBM. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 1184-1196	5.3	42
21	Simulation of magnetic field effect on natural convection of non-Newtonian power-law fluids in a sinusoidal heated cavity using FDLBM. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 53, 139-153	5.8	51
20	Simulation of non-Newtonian molten polymer on natural convection in a sinusoidal heated cavity using FDLBM. <i>Journal of Molecular Liquids</i> , 2014 , 195, 165-174	6	51
19	Mesosopic simulation of double-diffusive mixed convection of Pseudoplastic Fluids in an enclosure with sinusoidal boundary conditions. <i>Computers and Fluids</i> , 2014 , 97, 94-109	2.8	46
18	Lattice Boltzmann Simulation of Natural Convection in a Square Cavity with a Linearly Heated Wall Using Nanofluid. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 2143-2156		11
17	FDLBM simulation of magnetic field effect on non-Newtonian blood flow in a cavity driven by the motion of two facing lids. <i>Powder Technology</i> , 2014 , 253, 325-337	5.2	45
16	Simulation of Ferrofluid Heat Dissipation Effect on Natural Convection at an Inclined Cavity Filled with Kerosene/Cobalt Utilizing the Lattice Boltzmann Method. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 65, 509-530	2.3	55
15	Mixed convection of non-Newtonian nanofluids flows in a lid-driven enclosure with sinusoidal temperature profile using FDLBM. <i>Powder Technology</i> , 2014 , 266, 268-281	5.2	60
14	Double-diffusive mixed convection of pseudoplastic fluids in a two sided lid-driven cavity using FDLBM. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 2122-2139	5.3	47
13	Mesosopic simulation of magnetic field effect on double-diffusive mixed convection of shear-thinning fluids in a two sided lid-driven cavity. <i>Journal of Molecular Liquids</i> , 2014 , 198, 413-429	6	40
12	Effect of a Magnetic Field on Natural Convection in a Nanofluid-Filled Enclosure with a Linearly Heated Wall Using LBM. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 4151-4163		16
11	Lattice Boltzmann simulation of natural convection in nanofluid-filled 2D long enclosures at presence of magnetic field. <i>Theoretical and Computational Fluid Dynamics</i> , 2013 , 27, 865-883	2.3	57
10	Lattice Boltzmann simulation of turbulent natural convection in a square cavity using Cu/water nanofluid. <i>Journal of Mechanical Science and Technology</i> , 2013 , 27, 2341-2349	1.6	30
9	Lattice Boltzmann simulation of MHD natural convection in a nanofluid-filled cavity with sinusoidal temperature distribution. <i>Powder Technology</i> , 2013 , 243, 171-183	5.2	107
8	Effect of a magnetic field on natural convection in an open cavity subjugated to water/alumina nanofluid using Lattice Boltzmann method. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 40, 67-77	5.8	136
7	Lattice Boltzmann simulation of natural convection in an open enclosure subjugated to water/copper nanofluid. <i>International Journal of Thermal Sciences</i> , 2012 , 52, 91-101	4.1	83

6	Lattice Boltzmann Simulation of Turbulent Natural Convection in Tall Enclosures Using Cu/Water Nanofluid. <i>Numerical Heat Transfer; Part A: Applications</i> , 2012 , 62, 512-530	2.3	66
5	Lattice Boltzmann simulation of MHD mixed convection in a lid-driven square cavity with linearly heated wall. <i>Scientia Iranica</i> , 2012 , 19, 1053-1065	1.5	77
4	Investigation of Prandtl number effect on natural convection MHD in an open cavity by lattice Boltzmann method. <i>Engineering Computations</i> , 2012 , 30, 97-116	1.4	39
3	Lattice Boltzmann simulation of MHD mixed convection in a two-sided lid-driven square cavity. <i>Heat Transfer - Asian Research</i> , 2012 , 41, 179-195	2.8	16
2	Lattice Boltzmann Simulation of Natural Convection in an Inclined Heated Cavity Partially Using Cu/Water Nanofluid. <i>International Journal of Fluid Mechanics Research</i> , 2012 , 39, 348-372	4.3	21
1	Lattice Boltzmann simulation of natural convection in tall enclosures using water/SiO ₂ nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2011 , 38, 798-805	5.8	135