

Gholamreza Kefayati

List of Publications by Year in descending order

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77
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citations

66234

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1559
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#	ARTICLE	IF	CITATIONS
1	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.	2.9	313
2	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.	2.5	164
3	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.	2.9	155
4	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.	2.9	150
5	Heat transfer and entropy generation of natural convection on non-Newtonian nanofluids in a porous cavity. <i>Powder Technology</i> , 2016, 299, 127-149.	2.1	137
6	Natural convection of ferrofluid in a linearly heated cavity utilizing LBM. <i>Journal of Molecular Liquids</i> , 2014, 191, 1-9.	2.3	132
7	Lattice Boltzmann simulation of MHD natural convection in a nanofluid-filled cavity with sinusoidal temperature distribution. <i>Powder Technology</i> , 2013, 243, 171-183.	2.1	114
8	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.	2.6	113
9	A review on why researchers apply external magnetic field on nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 60-67.	2.9	103
10	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.	0.3	94
11	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.	2.6	92
12	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.	2.1	78
13	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.	2.5	78
14	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.	2.5	74
15	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.	2.0	73
16	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.	2.5	71
17	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.	2.5	71
18	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.	1.2	68

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19	Mixed convection of non-Newtonian nanofluids flows in a lid-driven enclosure with sinusoidal temperature profile using FDLBM. Powder Technology, 2014, 266, 268-281.	2.1	68
20	Natural convection problem in a Bingham fluid using the operator-splitting method. Journal of Non-Newtonian Fluid Mechanics, 2015, 220, 22-32.	1.0	68
21	FDLBM simulation of entropy generation in double diffusive natural convection of power-law fluids in an enclosure with Soret and Dufour effects. International Journal of Heat and Mass Transfer, 2015, 89, 267-290.	2.5	67
22	FDLBM simulation of magnetic field effect on mixed convection in a two sided lid-driven cavity filled with non-Newtonian nanofluid. Powder Technology, 2015, 280, 135-153.	2.1	67
23	Lattice Boltzmann simulation of natural convection in nanofluid-filled 2D long enclosures at presence of magnetic field. Theoretical and Computational Fluid Dynamics, 2013, 27, 865-883.	0.9	65
24	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) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 53	1.5	65
25	Simulation of natural convection and entropy generation of non-Newtonian nanofluid in an inclined cavity using Buongiorno's mathematical model (Part II, entropy generation). Powder Technology, 2017, 305, 679-703.	2.1	65
26	Simulation of magnetic field effect on natural convection of non-Newtonian power-law fluids in a sinusoidal heated cavity using FDLBM. International Communications in Heat and Mass Transfer, 2014, 53, 139-153.	2.9	61
27	Simulation of non-Newtonian molten polymer on natural convection in a sinusoidal heated cavity using FDLBM. Journal of Molecular Liquids, 2014, 195, 165-174.	2.3	60
28	Simulation of Ferrofluid Heat Dissipation Effect on Natural Convection at an Inclined Cavity Filled with Kerosene/Cobalt Utilizing the Lattice Boltzmann Method. Numerical Heat Transfer; Part A: Applications, 2014, 65, 509-530.	1.2	59
29	Simulation of natural convection and entropy generation of MHD non-Newtonian nanofluid in a cavity using Buongiorno's mathematical model. International Journal of Hydrogen Energy, 2017, 42, 17284-17327.	3.8	57
30	Double-diffusive natural convection and entropy generation of Bingham fluid in an inclined cavity. International Journal of Heat and Mass Transfer, 2018, 116, 762-812.	2.5	57
31	Mesoscopic simulation of double-diffusive mixed convection of Pseudoplastic Fluids in an enclosure with sinusoidal boundary conditions. Computers and Fluids, 2014, 97, 94-109.	1.3	54
32	Double-diffusive mixed convection of pseudoplastic fluids in a two sided lid-driven cavity using FDLBM. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 2122-2139.	2.7	54
33	FDLBM simulation of magnetic field effect on natural convection of non-Newtonian power-law fluids in a linearly heated cavity. Powder Technology, 2014, 256, 87-99.	2.1	50
34	Lattice Boltzmann Method for simulation of mixed convection of a Bingham fluid in a lid-driven cavity. International Journal of Heat and Mass Transfer, 2016, 103, 725-743.	2.5	50
35	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). International Journal of Heat and Mass Transfer, 2018, 120, 731-750.	2.5	50
36	Lattice Boltzmann simulation of double-diffusive natural convection of viscoplastic fluids in a porous cavity. Physics of Fluids, 2019, 31, .	1.6	50

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37	FDLBM simulation of magnetic field effect on non-Newtonian blood flow in a cavity driven by the motion of two facing lids. Powder Technology, 2014, 253, 325-337.	2.1	49
38	Three-dimensional Lattice Boltzmann simulation on thermosolutal convection and entropy generation of Carreau-Yasuda fluids. International Journal of Heat and Mass Transfer, 2019, 131, 346-364.	2.5	49
39	Mesoscopic simulation of magnetic field effect on natural convection of power-law fluids in a partially heated cavity. Chemical Engineering Research and Design, 2015, 94, 337-354.	2.7	48
40	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). Energy, 2016, 107, 917-959.	4.5	47
41	Investigation of Prandtl number effect on natural convection MHD in an open cavity by lattice Boltzmann method. Engineering Computations, 2012, 30, 97-116.	0.7	46
42	Mesoscopic simulation of magnetic field effect on double-diffusive mixed convection of shear-thinning fluids in a two sided lid-driven cavity. Journal of Molecular Liquids, 2014, 198, 413-429.	2.3	45
43	Simulation of magnetic field effect on non-Newtonian blood flow between two-square concentric duct annuli using FDLBM. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1184-1196.	2.7	43
44	From mesoscopic models to continuum mechanics: Newtonian and non-newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 233, 146-154.	1.0	43
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 I: Study of fluid flow, heat and mass transfer). Energy, 2016, 107, 889-916.	4.5	41
46	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). International Journal of Heat and Mass Transfer, 2018, 120, 683-713.	2.5	40
47	A comparative experimental investigation of energetic and exergetic performances of water/magnetite nanofluid-based photovoltaic/thermal system equipped with finned and unfinned collectors. Energy, 2021, 220, 119714.	4.5	37
48	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. Journal of the Taiwan Institute of Chemical Engineers, 2015, 51, 20-33.	2.7	36
49	A lattice Boltzmann model for thermal non-Newtonian fluid flows through porous media. Computers and Fluids, 2018, 176, 226-244.	1.3	34
50	Energy and Exergy Analysis of Using Turbulator in a Parabolic Trough Solar Collector Filled with Mesoporous Silica Modified with Copper Nanoparticles Hybrid Nanofluid. Energies, 2020, 13, 2946.	1.6	34
51	Lattice Boltzmann simulation of turbulent natural convection in a square cavity using Cu/water nanofluid. Journal of Mechanical Science and Technology, 2013, 27, 2341-2349.	0.7	33
52	Thermosolutal natural convection of viscoplastic fluids in an open porous cavity. International Journal of Heat and Mass Transfer, 2019, 138, 401-419.	2.5	33
53	A particle distribution function approach to the equations of continuum mechanics in Cartesian, cylindrical and spherical coordinates: Newtonian and non-Newtonian fluids. Journal of Non-Newtonian Fluid Mechanics, 2018, 251, 119-131.	1.0	31
54	MHD Turbulent and Laminar Natural Convection in a Square Cavity utilizing Lattice Boltzmann Method. Heat Transfer - Asian Research, 2016, 45, 795-814.	2.8	30

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55	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.	2.5	30
56	A lattice Boltzmann method for single- and two-phase models of nanofluids: Newtonian and non-Newtonian nanofluids. <i>Physics of Fluids</i> , 2021, 33, .	1.6	29
57	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.	1.2	28
58	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.	2.5	26
59	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.	2.5	23
60	A mesoscopic model for thermal-solutal problems of power-law fluids through porous media. <i>Physics of Fluids</i> , 2021, 33, .	1.6	22
61	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.	0.4	22
62	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, .	1.6	21
63	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	20
64	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.	1.3	18
65	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.	1.2	18
66	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.	1.1	17
67	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.	1.2	15
68	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.	2.5	14
69	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.	1.1	13
70	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.	1.2	13
71	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.	2.7	13
72	Evaporative Cooling Integrated with Solid Desiccant Systems: A Review. <i>Energies</i> , 2021, 14, 5982.	1.6	12

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73	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.	2.5	11
74	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, .	1.6	9
75	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.	1.5	8
76	Study on Surface Condensate Water Removal and Heat Transfer Performance of a Minichannel Heat Exchanger. <i>Energies</i> , 2020, 13, 1065.	1.6	7
77	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.	0.7	2