M Mamun Molla

List of Publications by Year
in descending order

93 papers	1,395 citations	361296 20 h-index	414303 32 g-index
96 all docs	96 docs citations	96 times ranked	789 citing authors

#	Article	IF	Citations
1	Natural convection flow along a vertical wavy surface with uniform surface temperature in presence of heat generation/absorption. International Journal of Thermal Sciences, 2004, 43, 157-163.	2.6	107
2	LES of non-Newtonian physiological blood flow in a model of arterial stenosis. Medical Engineering and Physics, 2012, 34, 1079-1087.	0.8	83
3	Radiation effect on mixed convection laminar flow along a vertical wavy surface. International Journal of Thermal Sciences, 2007, 46, 926-935.	2.6	64
4	Large–Eddy simulation of pulsatile blood flow. Medical Engineering and Physics, 2009, 31, 153-159.	0.8	60
5	Natural convection flow from an isothermal horizontal circular cylinder in presence of heat generation. International Journal of Engineering Science, 2006, 44, 949-958.	2.7	51
6	MHD natural convection and entropy generation of non-Newtonian ferrofluid in a wavy enclosure. International Journal of Mechanical Sciences, 2021, 198, 106350.	3.6	50
7	Natural convection flow from an isothermal horizontal circular cylinder with temperature dependent viscosity. Heat and Mass Transfer, 2005, 41, 594-598.	1.2	46
8	Magnetohydrodynamic natural convection flow on a sphere with uniform heat flux in presence of heat generation. Acta Mechanica, 2006, 186, 75-86.	1.1	35
9	Pulsatile Non-Newtonian Blood Flow through a Model of Arterial Stenosis. Procedia Engineering, 2013, 56, 225-231.	1.2	32
10	Natural convection flow from a horizontal circular cylinder with uniform heat flux in presence of heat generation. Applied Mathematical Modelling, 2009, 33, 3226-3236.	2.2	31
11	Investigation of physiological pulsatile flow in a model arterial stenosis using large-eddy and direct numerical simulations. Applied Mathematical Modelling, 2012, 36, 4393-4413.	2.2	31
12	MHD-conjugate heat transfer analysis for a vertical flat plate in presence of viscous dissipation and heat generation. International Communications in Heat and Mass Transfer, 2008, 35, 1275-1280.	2.9	30
13	Pulsatile Non-Newtonian Laminar Blood Flows through Arterial Double Stenoses. Journal of Fluids, 2014, 2014, 1-13.	1.4	28
14	Natural-Convection Flow Along a Vertical Complex Wavy Surface With Uniform Heat Flux. Journal of Heat Transfer, 2007, 129, 1403-1407.	1.2	26
15	GPU Accelerated Multiple-Relaxation-Time Lattice Boltzmann Simulation of Convective Flows in a Porous Media. Frontiers in Mechanical Engineering, 2018, 4, .	0.8	24
16	Magnetic field effects on natural convection and entropy generation of non-Newtonian fluids using multiple-relaxation-time lattice Boltzmann method. International Journal of Modern Physics C, 2021, 32, 2150015.	0.8	23
17	Natural convection and entropy generation of non-Newtonian nanofluids with different angles of external magnetic field using GPU accelerated MRT-LBM. Case Studies in Thermal Engineering, 2022, 30, 101769.	2.8	23
18	Non-Newtonian Fluid Flow on a Flat Plate Part 1: Boundary Layer. Journal of Thermophysics and Heat Transfer, 2008, 22, 758-761.	0.9	21

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19	Non-Newtonian Natural Convection Along a Vertical Heated Wavy Surface Using a Modified Power-Law Viscosity Model. Journal of Heat Transfer, 2009, 131, .	1.2	21
20	Radiation effect on natural convection boundary layer flow over a vertical wavy frustum of a cone. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 1605-1614.	1.1	20
21	Radiation effect on free convection laminar flow along a vertical flat plate with streamwise sinusoidal surface temperature. Mathematical and Computer Modelling, 2011, 53, 1310-1319.	2.0	20
22	Numerical study of pulsatile channel flows undergoing transition triggered by a modelled stenosis. Physics of Fluids, 2012, 24, .	1.6	20
23	Large Eddy Simulation of Pulsatile Flow through a Channel with Double Constriction. Fluids, 2017, 2, 1.	0.8	20
24	Forced convection of non-Newtonian fluids on a heated flat plate. International Journal of Heat and Mass Transfer, 2008, 51, 5154-5159.	2.5	19
25	Aerosol particle transport and deposition in a CT-scan based mouth-throat model. AIP Conference Proceedings, 2019, , .	0.3	19
26	Non-Newtonian Fluid Flow on a Flat Plate Part 2: Heat Transfer. Journal of Thermophysics and Heat Transfer, 2008, 22, 762-765.	0.9	18
27	The Flow of Non-Newtonian Fluids on a Flat Plate With a Uniform Heat Flux. Journal of Heat Transfer, 2009, 131, .	1.2	18
28	Natural Convection Flow from an Isothermal Sphere with Temperature Dependent Thermal Conductivity. Journal of Naval Architecture and Marine Engineering, 2009, 2, 53-64.	0.9	17
29	Numerical Simulation of Non-Newtonian Power-Law Fluid Flow in a Lid-Driven Skewed Cavity. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	0.9	17
30	A Graphics Process Unit-Based Multiple-Relaxation-Time Lattice Boltzmann Simulation of Non-Newtonian Fluid Flows in a Backward Facing Step. Computation, 2020, 8, 83.	1.0	17
31	Non-Newtonian effect on heat transfer and entropy generation of natural convection nanofluid flow inside a vertical wavy porous cavity. SN Applied Sciences, 2021, 3, 1.	1.5	16
32	Conjugate Effect of Heat and Mass Transfer in Natural Convection Flow from an Isothermal Sphere with Chemical Reaction. International Journal of Fluid Mechanics Research, 2004, 31, 319-331.	0.4	15
33	Mixed convection of non-Newtonian fluids along a heated vertical flat plate. International Journal of Heat and Mass Transfer, 2009, 52, 3266-3271.	2.5	14
34	Lattice Boltzmann Simulation of MHD Rayleigh–Bénard Convection in Porous Media. Arabian Journal for Science and Engineering, 2020, 45, 9527-9547.	1.7	14
35	Natural Convection Laminar Flow with Temperature Dependent Viscosity and Thermal Conductivity Along a Vertical Wavy Surface. International Journal of Fluid Mechanics Research, 2009, 36, 272-288.	0.4	14
36	Vaccine efficacy and SARS-CoV-2 control in California and U.S. during the session 2020–2026: A modeling study. Infectious Disease Modelling, 2022, 7, 62-81.	1.2	14

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37	Effects of chemical reaction, heat and mass diffusion in natural convection flow from an isothermal sphere with temperature dependent viscosity. Engineering Computations, 2006, 23, 840-857.	0.7	13
38	LES of additive and non-additive pulsatile flows in a model arterial stenosis. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 105-120.	0.9	12
39	Lattice Boltzmann Simulation of Airflow and Heat Transfer in a Model Ward of a Hospital. Journal of Thermal Science and Engineering Applications, 2017, 9, .	0.8	12
40	Multiple-relaxation-time lattice Boltzmann simulation of free convection and irreversibility of nanofluid with variable thermophysical properties. Physica Scripta, 2021, 96, 125031.	1.2	12
41	Fully-Developed Circular-Pipe Flow of a Non-Newtonian Pseudoplastic Fluid. Universal Journal of Mechanical Engineering, 2013, 1, 23-31.	0.4	11
42	Large-Eddy Simulation of Airflow and Pollutant Dispersion in a Model Street Canyon Intersection of Dhaka City. Atmosphere, 2022, 13, 1028.	1.0	11
43	Radiation effects on natural convection laminar flow from a horizontal circular cylinder. Desalination and Water Treatment, 2011, 30, 89-97.	1.0	10
44	Large-eddy simulation of pulsatile non-Newtonian flow in a constricted channel. Progress in Computational Fluid Dynamics, 2012, 12, 231.	0.1	10
45	MHD natural convection flow from an isothermal horizontal circular cylinder under consideration of temperature dependent viscosity. Engineering Computations, 2012, 29, 875-887.	0.7	10
46	Bingham fluid flow simulation in a lid-driven skewed cavity using the finite-volume method. International Journal of Computer Mathematics, 2020, 97, 1212-1233.	1.0	10
47	Non-Newtonian Natural Convection Along a Vertical Plate with Uniform Surface Heat Fluxes. Journal of Thermophysics and Heat Transfer, 2009, 23, 176-185.	0.9	9
48	Buoyancy Driven Natural Convection Flow in an Enclosure with Two Discrete Heating from below. Procedia Engineering, 2013, 56, 104-111.	1.2	9
49	Lattice Boltzmann simulation of natural convection and heat transfer from multiple heated blocks. Heat Transfer, 2020, 49, 1877-1894.	1.7	9
50	Unsteady RANS simulation of wind flow around a building shape obstacle. Building Simulation, 2022, 15, 291-312.	3.0	9
51	Carreau ferrofluid flow with inclined magnetic field in an enclosure having heated cylinder. Physica Scripta, 2021, 96, 105007.	1.2	9
52	Scaling Analysis of the Unsteady Natural Convection Boundary Layer Adjacent to an Inclined Plate for Prâ€‰>â€‰1 Following Instantaneous Heating. Journal of Heat Transfer, 2011, 133, .	1.2	8
53	Lattice Boltzmann Simulation of Airflow and Mixed Convection in a General Ward of Hospital. Journal of Computational Engineering, 2016, 2016, 1-15.	0.8	8
54	Graphics process unit accelerated lattice Boltzmann simulation of indoor air flow: Effects of sub-grid scale model in large-eddy simulation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, 234, 4024-4040.	1.1	8

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55	Natural Convection Flow over a Vertical Permeable Circular Cone with Uniform Surface Heat Flux in Temperature-Dependent Viscosity with Three-Fold Solutions within the Boundary Layer. Computation, 2022, 10, 60.	1.0	8
56	Natural Convection Flow along an Isothermal Vertical Flat Plate with Temperature Dependent Viscosity and Heat Generation. Journal of Computational Engineering, 2014, 2014, 1-13.	0.8	7
57	Effects of Temperature Dependent Thermal Conductivity on Natural Convection Flow Along a Vertical Wavy Cone with Heat Flux. Procedia Engineering, 2014, 90, 497-503.	1.2	6
58	Numerical investigation of diesel exhaust particle transport and deposition in the CT-scan based lung airway. AIP Conference Proceedings, 2017, , .	0.3	6
59	Investigation of MHD free convection of power€law fluids in a sinusoidally heated enclosure using the MRT€LBM. Heat Transfer, 2022, 51, 355-376.	1.7	6
60	Double-diffusive natural convection of non-Newtonian nanofluid considering thermal dispersion of nanoparticles in a vertical wavy enclosure. AIP Advances, 2021, 11, .	0.6	6
61	Natural convection flow along the vertical wavy cone in case of uniform surface heat flux where viscosity is an exponential function of temperature. International Communications in Heat and Mass Transfer, 2011, 38, 774-780.	2.9	5
62	Non-Newtonian Mixed Convection Flow along an Isothermal Horizontal Circular Cylinder. Numerical Heat Transfer; Part A: Applications, 2014, 66, 509-529.	1.2	5
63	Non-newtonian Mixed Convection Flow from a Horizontal Circular Cylinder with Uniform Surface Heat Flux. Procedia Engineering, 2014, 90, 510-516.	1.2	5
64	Pulsatile Non-Newtonian Fluid Flows in a Model Aneurysm with Oscillating Wall. Frontiers in Mechanical Engineering, 2017, 3, .	0.8	5
65	Non-Newtonian effect on natural convection flow over cylinder of elliptic cross section. Applied Mathematics and Mechanics (English Edition), 2020, 41, 361-382.	1.9	5
66	Study of mixed convection flow of power€law fluids in a skewed lid€driven cavity. Heat Transfer, 2021, 50, 6328-6357.	1.7	5
67	Chaotic phenomena of natural convection for water in a V-shaped enclosure. International Journal of Thermal Sciences, 2022, 176, 107526.	2.6	5
68	RADIATION EFFECT ON FREE CONVECTION LAMINAR FLOW FROM AN ISOTHERMAL SPHERE. Chemical Engineering Communications, 2011, 198, 1483-1496.	1.5	4
69	Natural convection from a vertical plate embedded in a stratified medium with uniform heat source. Desalination and Water Treatment, 2012, 44, 7-14.	1.0	4
70	Large-eddy simulation of airflow and heat transfer in a general ward of hospital. AIP Conference Proceedings, 2016, , .	0.3	4
71	Lattice Boltzmann simulation of MHD non-Newtonian power-law nanofluid in a rectangular enclosure using GPU computing. AIP Conference Proceedings, 2021, , .	0.3	4
72	Non-Newtonian effect on double diffusive natural convection of nanofluid within a square cavity. AIP Conference Proceedings, 2021, , .	0.3	4

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73	Conjugate Effects of Heat and Mass Transfer on Natural Convection Flow Across an Isothermal Horizontal Circular Cylinder With Chemical Reaction. Nonlinear Analysis: Modelling and Control, 2007, 12, 191-201.	1.1	4
74	Laminar Blood Flow through a Model of Arterial Stenosis with Oscillating Wall. International Journal of Fluid Mechanics Research, 2014, 41, 417-429.	0.4	4
75	PHYSIOLOGICAL FLOW IN A MODEL OF ARTERIAL STENOSIS. Journal of Biomechanics, 2008, 41, S243.	0.9	3
76	Natural convection flow of Cu-H2O nanofluid along a vertical wavy surface with uniform heat flux. AIP Conference Proceedings, 2016, , .	0.3	3
77	Numerical simulation of Bingham fluid flows in a lid-driven skewed cavity. AIP Conference Proceedings, 2018, , .	0.3	3
78	Lattice Boltzmann simulation of Non-Newtonian power-law fluid flows in a bifurcated channel. AIP Conference Proceedings, 2018, , .	0.3	3
79	Natural convection of non-Newtonian shear-thinning fluid flow inside a skewed cavity. AIP Conference Proceedings, 2019, , .	0.3	3
80	Lattice Boltzmann Simulation of Magnetic Field Effect on Electrically Conducting Fluid at Inclined Angles in Rayleigh-Bé—šard Convection. Energy Engineering: Journal of the Association of Energy Engineers, 2021, 118, 15-36.	0.3	3
81	Character association and path analysis of tomato (Solanum lycopersicum L.). Journal of Bioscience and Agriculture Research, 2019, 22, 1815-1822.	0.2	3
82	Natural convection flow in porous enclosure with localized heating from below with heat flux. AIP Conference Proceedings, 2016, , .	0.3	2
83	Natural convection of non-Newtonian fluid along a vertical thin cylinder using modified power-law model. AIP Conference Proceedings, 2016, , .	0.3	2
84	Non-Newtonian shear thinning effect on natural convection flow over an isothermal elliptical cylinder. AIP Conference Proceedings, 2019, , .	0.3	2
85	Numerical simulation of natural convection of dusty nanofluids within a curve-shaped enclosure. AIP Advances, 2020, 10, 105304.	0.6	2
86	Non-Newtonian Natural Convection Flow along a Horizontal Circular Cylinder with Uniform Surface Heat Flux. Advances in Mechanical Engineering, 2013, 5, 194928.	0.8	2
87	Quantification of the changes in contact surface of rat cartilage using MRI during ageing process. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 105-106.	0.9	1
88	Natural convection flow of nanofluids over horizontal circular cylinder with uniform surface heat flux. AIP Conference Proceedings, 2021, , .	0.3	1
89	Pulsatile Laminar Flows in a Dilated Channel Using Cartesian Curvilinear Coordinates. Universal Journal of Mechanical Engineering, 2013, 1, 98-107.	0.4	1
90	Non-Newtonian Effect on Mixed Convection Flow Over an Elliptical Cylinder with Uniform Heat Flux. International Journal of Applied and Computational Mathematics, 2022, 8, 1.	0.9	1

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91	Large-Eddy Simulation of Physiological Pulsatile Flow Based on a Dynamic Nonlinear Subgrid-Scale Stress Model. , 2011, , .		0
92	Multiple-relaxation-time lattice Boltzmann simulation of natural convection flow in a partitioned cavity using GPU computing. AIP Conference Proceedings, 2019, , .	0.3	0
93	GPU accelerated lattice Boltzmann simulation of non-Newtonian power-law fluid in a porous enclosure. AIP Conference Proceedings, 2021, , .	0.3	0