

# M Mamun Molla

## List of Publications by Year in Descending Order

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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.

83

papers

883

citations

17

h-index

25

g-index

96

ext. papers

1,094

ext. citations

2.6

avg, IF

4.61

L-index

#	Paper	IF	Citations
83	Vaccine efficacy and SARS-CoV-2 control in California and U.S. during the session 2020-2026: A modeling study. <i>Infectious Disease Modelling</i> , <b>2022</b> , 7, 62-81	15.7	2
82	Natural convection and entropy generation of non-Newtonian nanofluids with different angles of external magnetic field using GPU accelerated MRT-LBM. <i>Case Studies in Thermal Engineering</i> , <b>2022</b> , 30, 101769	5.6	4
81	Unsteady RANS simulation of wind flow around a building shape obstacle. <i>Building Simulation</i> , <b>2022</b> , 15, 291	3.9	1
80	Non-Newtonian Effect on Mixed Convection Flow Over an Elliptical Cylinder with Uniform Heat Flux. <i>International Journal of Applied and Computational Mathematics</i> , <b>2022</b> , 8, 1	1.3	0
79	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. <i>Computation</i> , <b>2022</b> , 10, 60	2.2	3
78	Chaotic phenomena of natural convection for water in a V-shaped enclosure. <i>International Journal of Thermal Sciences</i> , <b>2022</b> , 176, 107526	4.1	0
77	Multiple-relaxation-time lattice Boltzmann simulation of free convection and irreversibility of nanofluid with variable thermophysical properties. <i>Physica Scripta</i> , <b>2021</b> , 96, 125031	2.6	1
76	MHD natural convection and entropy generation of non-Newtonian ferrofluid in a wavy enclosure. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 198, 106350	5.5	20
75	Study of mixed convection flow of power-law fluids in a skewed lid-driven cavity. <i>Heat Transfer</i> , <b>2021</b> , 50, 6328-6357	3.1	0
74	Magnetic field effects on natural convection and entropy generation of non-Newtonian fluids using multiple-relaxation-time lattice Boltzmann method. <i>International Journal of Modern Physics C</i> , <b>2021</b> , 32, 2150015	1.1	5
73	Non-Newtonian effect on heat transfer and entropy generation of natural convection nanofluid flow inside a vertical wavy porous cavity. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	5
72	Carreau ferrofluid flow with inclined magnetic field in an enclosure having heated cylinder. <i>Physica Scripta</i> , <b>2021</b> , 96, 105007	2.6	1
71	Double-diffusive natural convection of non-Newtonian nanofluid considering thermal dispersion of nanoparticles in a vertical wavy enclosure. <i>AIP Advances</i> , <b>2021</b> , 11, 095219	1.5	0
70	Non-Newtonian effect on double diffusive natural convection of nanofluid within a square cavity <b>2021</b> ,		4
69	Lattice Boltzmann simulation of natural convection and heat transfer from multiple heated blocks. <i>Heat Transfer</i> , <b>2020</b> , 49, 1877-1894	3.1	4
68	Graphics process unit accelerated lattice Boltzmann simulation of indoor air flow: Effects of sub-grid scale model in large-eddy simulation. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2020</b> , 234, 4024-4040	1.3	3
67	Non-Newtonian effect on natural convection flow over cylinder of elliptic cross section. <i>Applied Mathematics and Mechanics (English Edition)</i> , <b>2020</b> , 41, 361-382	3.2	4

66	Numerical simulation of natural convection of dusty nanofluids within a curve-shaped enclosure. <i>AIP Advances</i> , <b>2020</b> , 10, 105304	1.5	1
65	Lattice Boltzmann Simulation of MHD Rayleigh-Bard Convection in Porous Media. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 9527-9547	2.5	3
64	A Graphics Process Unit-Based Multiple-Relaxation-Time Lattice Boltzmann Simulation of Non-Newtonian Fluid Flows in a Backward Facing Step. <i>Computation</i> , <b>2020</b> , 8, 83	2.2	9
63	Bingham fluid flow simulation in a lid-driven skewed cavity using the finite-volume method. <i>International Journal of Computer Mathematics</i> , <b>2020</b> , 97, 1212-1233	1.2	5
62	Natural convection of non-Newtonian shear-thinning fluid flow inside a skewed cavity <b>2019</b> ,		2
61	Non-Newtonian shear thinning effect on natural convection flow over an isothermal elliptical cylinder <b>2019</b> ,		1
60	Aerosol particle transport and deposition in a CT-scan based mouth-throat model <b>2019</b> ,		13
59	Numerical Simulation of Non-Newtonian Power-Law Fluid Flow in a Lid-Driven Skewed Cavity. <i>International Journal of Applied and Computational Mathematics</i> , <b>2019</b> , 5, 1	1.3	9
58	Numerical simulation of Bingham fluid flows in a lid-driven skewed cavity <b>2018</b> ,		1
57	Lattice Boltzmann simulation of Non-Newtonian power-law fluid flows in a bifurcated channel <b>2018</b> ,		2
56	GPU Accelerated Multiple-Relaxation-Time Lattice Boltzmann Simulation of Convective Flows in a Porous Media. <i>Frontiers in Mechanical Engineering</i> , <b>2018</b> , 4,	2.6	8
55	Lattice Boltzmann Simulation of Airflow and Heat Transfer in a Model Ward of a Hospital. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2017</b> , 9,	1.9	8
54	Numerical investigation of diesel exhaust particle transport and deposition in the CT-scan based lung airway <b>2017</b> ,		6
53	Large Eddy Simulation of Pulsatile Flow through a Channel with Double Constriction. <i>Fluids</i> , <b>2017</b> , 2, 1	1.6	15
52	Pulsatile Non-Newtonian Fluid Flows in a Model Aneurysm with Oscillating Wall. <i>Frontiers in Mechanical Engineering</i> , <b>2017</b> , 3,	2.6	4
51	Natural convection flow of Cu-H <sub>2</sub> O nanofluid along a vertical wavy surface with uniform heat flux <b>2016</b> ,		1
50	Lattice Boltzmann Simulation of Airflow and Mixed Convection in a General Ward of Hospital. <i>Journal of Computational Engineering</i> , <b>2016</b> , 2016, 1-15		5
49	Large-eddy simulation of airflow and heat transfer in a general ward of hospital <b>2016</b> ,		1

48	Natural convection flow in porous enclosure with localized heating from below with heat flux <b>2016</b> ,		2
47	Natural convection of non-Newtonian fluid along a vertical thin cylinder using modified power-law model <b>2016</b> ,		1
46	Pulsatile Non-Newtonian Laminar Blood Flows through Arterial Double Stenoses. <i>Journal of Fluids</i> , <b>2014</b> , 2014, 1-13		19
45	Natural Convection Flow along an Isothermal Vertical Flat Plate with Temperature Dependent Viscosity and Heat Generation. <i>Journal of Computational Engineering</i> , <b>2014</b> , 2014, 1-13		5
44	Effects of Temperature Dependent Thermal Conductivity on Natural Convection Flow Along a Vertical Wavy Cone with Heat Flux. <i>Procedia Engineering</i> , <b>2014</b> , 90, 497-503		5
43	Non-Newtonian Mixed Convection Flow along an Isothermal Horizontal Circular Cylinder. <i>Numerical Heat Transfer; Part A: Applications</i> , <b>2014</b> , 66, 509-529	2-3	3
42	Non-newtonian Mixed Convection Flow from a Horizontal Circular Cylinder with Uniform Surface Heat Flux. <i>Procedia Engineering</i> , <b>2014</b> , 90, 510-516		5
41	Laminar Blood Flow through a Model of Arterial Stenosis with Oscillating Wall. <i>International Journal of Fluid Mechanics Research</i> , <b>2014</b> , 41, 417-429	4-3	2
40	Pulsatile Non-Newtonian Blood Flow through a Model of Arterial Stenosis. <i>Procedia Engineering</i> , <b>2013</b> , 56, 225-231		21
39	Buoyancy Driven Natural Convection Flow in an Enclosure with Two Discrete Heating from below. <i>Procedia Engineering</i> , <b>2013</b> , 56, 104-111		6
38	Non-Newtonian Natural Convection Flow along a Horizontal Circular Cylinder with Uniform Surface Heat Flux. <i>Advances in Mechanical Engineering</i> , <b>2013</b> , 5, 194928	1.2	2
37	Fully-Developed Circular-Pipe Flow of a Non-Newtonian Pseudoplastic Fluid. <i>Universal Journal of Mechanical Engineering</i> , <b>2013</b> , 1, 23-31	1.2	10
36	Natural convection from a vertical plate embedded in a stratified medium with uniform heat source. <i>Desalination and Water Treatment</i> , <b>2012</b> , 44, 7-14		2
35	LES of non-Newtonian physiological blood flow in a model of arterial stenosis. <i>Medical Engineering and Physics</i> , <b>2012</b> , 34, 1079-87	2.4	59
34	MHD natural convection flow from an isothermal horizontal circular cylinder under consideration of temperature dependent viscosity. <i>Engineering Computations</i> , <b>2012</b> , 29, 875-887	1.4	6
33	Investigation of physiological pulsatile flow in a model arterial stenosis using large-eddy and direct numerical simulations. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 4393-4413	4.5	23
32	Numerical study of pulsatile channel flows undergoing transition triggered by a modelled stenosis. <i>Physics of Fluids</i> , <b>2012</b> , 24, 121901	4.4	15
31	Large-eddy simulation of pulsatile non-Newtonian flow in a constricted channel. <i>Progress in Computational Fluid Dynamics</i> , <b>2012</b> , 12, 231	0.7	7

30	Scaling Analysis of the Unsteady Natural Convection Boundary Layer Adjacent to an Inclined Plate for $Pr > 1$ Following Instantaneous Heating. <i>Journal of Heat Transfer</i> , <b>2011</b> , 133,	1.8	8
29	Radiation effects on natural convection laminar flow from a horizontal circular cylinder. <i>Desalination and Water Treatment</i> , <b>2011</b> , 30, 89-97		7
28	Natural convection flow along the vertical wavy cone in case of uniform surface heat flux where viscosity is an exponential function of temperature. <i>International Communications in Heat and Mass Transfer</i> , <b>2011</b> , 38, 774-780	5.8	5
27	Radiation effect on free convection laminar flow along a vertical flat plate with streamwise sinusoidal surface temperature. <i>Mathematical and Computer Modelling</i> , <b>2011</b> , 53, 1310-1319		16
26	RADIATION EFFECT ON FREE CONVECTION LAMINAR FLOW FROM AN ISOTHERMAL SPHERE. <i>Chemical Engineering Communications</i> , <b>2011</b> , 198, 1483-1496	2.2	2
25	LES of additive and non-additive pulsatile flows in a model arterial stenosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2010</b> , 13, 105-20	2.1	1
24	LES of additive and non-additive pulsatile flows in a model arterial stenosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2010</b> , 13, 105-120	2.1	11
23	The Flow of Non-Newtonian Fluids on a Flat Plate With a Uniform Heat Flux. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	12
22	Natural convection flow from a horizontal circular cylinder with uniform heat flux in presence of heat generation. <i>Applied Mathematical Modelling</i> , <b>2009</b> , 33, 3226-3236	4.5	24
21	Mixed convection of non-Newtonian fluids along a heated vertical flat plate. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 3266-3271	4.9	9
20	Large-Eddy simulation of pulsatile blood flow. <i>Medical Engineering and Physics</i> , <b>2009</b> , 31, 153-9	2.4	50
19	Non-Newtonian Natural Convection Along a Vertical Heated Wavy Surface Using a Modified Power-Law Viscosity Model. <i>Journal of Heat Transfer</i> , <b>2009</b> , 131,	1.8	17
18	Radiation effect on natural convection boundary layer flow over a vertical wavy frustum of a cone. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2009</b> , 223, 1605-1614	1.3	19
17	Non-Newtonian Natural Convection Along a Vertical Plate with Uniform Surface Heat Fluxes. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2009</b> , 23, 176-185	1.3	3
16	Natural Convection Flow from an Isothermal Sphere with Temperature Dependent Thermal Conductivity. <i>Journal of Naval Architecture and Marine Engineering</i> , <b>2009</b> , 2, 53-64	1.4	6
15	Natural Convection Laminar Flow with Temperature Dependent Viscosity and Thermal Conductivity Along a Vertical Wavy Surface. <i>International Journal of Fluid Mechanics Research</i> , <b>2009</b> , 36, 272-288	4.3	6
14	Non-Newtonian Fluid Flow on a Flat Plate Part 1: Boundary Layer. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2008</b> , 22, 758-761	1.3	20
13	Non-Newtonian Fluid Flow on a Flat Plate Part 2: Heat Transfer. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2008</b> , 22, 762-765	1.3	15

12	PHYSIOLOGICAL FLOW IN A MODEL OF ARTERIAL STENOSIS. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, S243	2.9	3
11	MHD-conjugate heat transfer analysis for a vertical flat plate in presence of viscous dissipation and heat generation. <i>International Communications in Heat and Mass Transfer</i> , <b>2008</b> , 35, 1275-1280	5.8	17
10	Forced convection of non-Newtonian fluids on a heated flat plate. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 5154-5159	4.9	14
9	Radiation effect on mixed convection laminar flow along a vertical wavy surface. <i>International Journal of Thermal Sciences</i> , <b>2007</b> , 46, 926-935	4.1	52
8	Natural-Convection Flow Along a Vertical Complex Wavy Surface With Uniform Heat Flux. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 1403-1407	1.8	18
7	Conjugate Effects of Heat and Mass Transfer on Natural Convection Flow Across an Isothermal Horizontal Circular Cylinder With Chemical Reaction. <i>Nonlinear Analysis: Modelling and Control</i> , <b>2007</b> , 12, 191-201	1.3	3
6	Effects of chemical reaction, heat and mass diffusion in natural convection flow from an isothermal sphere with temperature dependent viscosity. <i>Engineering Computations</i> , <b>2006</b> , 23, 840-857	1.4	9
5	Natural convection flow from an isothermal horizontal circular cylinder in presence of heat generation. <i>International Journal of Engineering Science</i> , <b>2006</b> , 44, 949-958	5.7	38
4	Magnetohydrodynamic natural convection flow on a sphere with uniform heat flux in presence of heat generation. <i>Acta Mechanica</i> , <b>2006</b> , 186, 75-86	2.1	23
3	Natural convection flow from an isothermal horizontal circular cylinder with temperature dependent viscosity. <i>Heat and Mass Transfer</i> , <b>2005</b> , 41, 594-598	2.2	35
2	Natural convection flow along a vertical wavy surface with uniform surface temperature in presence of heat generation/absorption. <i>International Journal of Thermal Sciences</i> , <b>2004</b> , 43, 157-163	4.1	78
1	Conjugate Effect of Heat and Mass Transfer in Natural Convection Flow from an Isothermal Sphere with Chemical Reaction. <i>International Journal of Fluid Mechanics Research</i> , <b>2004</b> , 31, 319-331	4.3	10