

Mubbashar Nazeer

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,140
citations

361413

20
h-index

526287

27
g-index

53
all docs

53
docs citations

53
times ranked

271
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulation of MHD flow of micropolar fluid inside a porous inclined cavity with uniform and non-uniform heated bottom wall. Canadian Journal of Physics, 2018, 96, 576-593.	1.1	50
2	Effects of radiative heat flux and joule heating on electro-osmotically flow of non-Newtonian fluid: Analytical approach. International Communications in Heat and Mass Transfer, 2020, 117, 104744.	5.6	48
3	Flow and Heat Transfer Analysis of an Eyring-Powell Fluid in a Pipe. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 265-274.	1.5	47
4	Numerical and perturbation solutions of cross flow of an Eyring-Powell fluid. SN Applied Sciences, 2021, 3, 1.	2.9	43
5	Numerical and perturbation solutions of third-grade fluid in a porous channel: Boundary and thermal slip effects. Pramana - Journal of Physics, 2020, 94, 1.	1.8	39
6	Thermal analysis of Casson rheological fluid with gold nanoparticles under the impact of gravitational and magnetic forces. Case Studies in Thermal Engineering, 2021, 28, 101433.	5.7	38
7	BUOYANCY-DRIVEN CAVITY FLOW OF A MICROPOLAR FLUID WITH VARIABLY HEATED BOTTOM WALL. Heat Transfer Research, 2018, 49, 457-481.	1.6	35
8	Numerical solution for flow of a Eyring-Powell fluid in a pipe with prescribed surface temperature. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	34
9	Numerical simulations of MHD forced convection flow of micropolar fluid inside a right-angled triangular cavity saturated with porous medium: Effects of vertical moving wall. Canadian Journal of Physics, 2019, 97, 1-13.	1.1	34
10	Finite element analysis of bi-viscosity fluid enclosed in a triangular cavity under thermal and magnetic effects. European Physical Journal Plus, 2019, 134, 1.	2.6	33
11	Effects of moving wall on the flow of micropolar fluid inside a right angle triangular cavity. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2404-2422.	2.8	32
12	Perturbation solution of the multiphase flows of third grade dispersions suspended with Hafnium and crystal particles. Surfaces and Interfaces, 2021, 22, 100803.	3.0	31
13	Effects of Constant and Space-Dependent Viscosity on Eyring-Powell Fluid in a Pipe: Comparison of the Perturbation and Explicit Finite Difference Methods. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 961-969.	1.5	30
14	A numerical study of micropolar flow inside a lid-driven triangular enclosure. Meccanica, 2018, 53, 3279-3299.	2.0	29
15	Natural convection through spherical particles of a micropolar fluid enclosed in a trapezoidal porous container. European Physical Journal Plus, 2018, 133, 1.	2.6	28
16	Finite element simulations for energy transfer in a lid-driven porous square container filled with micropolar fluid: Impact of thermal boundary conditions and Peclet number. International Journal of Hydrogen Energy, 2019, 44, 7656-7666.	7.1	28
17	Interpretation of entropy generation in Williamson fluid flow with nonlinear thermal radiation and first-order velocity slip. Mathematical Methods in the Applied Sciences, 2021, 44, 7756-7765.	2.3	28
18	Velocity and thermal slip effects on two-phase flow of MHD Jeffrey fluid with the suspension of tiny metallic particles. Physica Scripta, 2021, 96, 025803.	2.5	28

#	ARTICLE	IF	CITATIONS
19	Heat and Mass Transfer of Temperature-Dependent Viscosity Models in a Pipe: Effects of Thermal Radiation and Heat Generation. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2020, 75, 225-239.	1.5	27
20	Numerical simulation of squeezing flow Jeffrey nanofluid confined by two parallel disks with the help of chemical reaction: effects of activation energy and microorganisms. <i>International Journal of Chemical Reactor Engineering</i> , 2021, 19, 717-725.	1.1	27
21	Two-phase flow of MHD Jeffrey fluid with the suspension of tiny metallic particles incorporated with viscous dissipation and Porous Medium. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110059.	1.6	27
22	Mathematical modeling of MHD Jeffrey nanofluid in a microchannel incorporated with lubrication effects: a Graetz problem. <i>Physica Scripta</i> , 2021, 96, 025225.	2.5	26
23	Mathematical modeling of bio-magnetic fluid bounded by ciliated walls of wavy channel incorporated with viscous dissipation: Discarding mucus from lungs and blood streams. <i>International Communications in Heat and Mass Transfer</i> , 2021, 124, 105274.	5.6	25
24	Development of mathematical modeling of multi-phase flow of Casson rheological fluid: Theoretical approach. <i>Chaos, Solitons and Fractals</i> , 2021, 150, 111198.	5.1	25
25	Theoretical investigation of thermal analysis in aluminum and titanium alloys filled in nanofluid through a square cavity having the uniform thermal condition. <i>International Journal of Modern Physics B</i> , 2022, 36, .	2.0	22
26	Numerical analysis of the full MHD model with the Galerkin finite-element method. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	21
27	Mathematical modeling of multiphase flows of third-grade fluid with lubrication effects through an inclined channel: analytical treatment. <i>Journal of Dispersion Science and Technology</i> , 2022, 43, 1555-1567.	2.4	21
28	Mathematical modeling of bio-magnetic fluid bounded within ciliated walls of wavy channel. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	3.6	20
29	A comparative study of MHD fluid-particle suspension induced by metachronal wave under the effects of lubricated walls. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150204.	2.0	19
30	Computational study of solid-liquid supercritical flow of 4th-grade fluid through magnetized surface. <i>Physica Scripta</i> , 2021, 96, 015201.	2.5	19
31	Mathematical modeling and simulation of MHD electro-osmotic flow of Jeffrey fluid in convergent geometry. <i>Waves in Random and Complex Media</i> , 0, , 1-17.	2.7	19
32	Electro-osmotic flow of biological fluid in divergent channel: drug therapy in compressed capillaries. <i>Scientific Reports</i> , 2021, 11, 23652.	3.3	19
33	Effects of radiative heat flux and heat generation on magnetohydrodynamics natural convection flow of nanofluid inside a porous triangular cavity with thermal boundary conditions. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	3.6	18
34	Mathematical Modeling and MHD Flow of Micropolar Fluid Toward an Exponential Curved Surface: Heat Analysis via Ohmic Heating and Heat Source/Sink. <i>Arabian Journal for Science and Engineering</i> , 2022, 47, 867-878.	3.0	17
35	Simultaneous effects of Brownian motion and thermophoretic force on Eyring-Powell fluid through porous geometry. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2021, 76, 569-580.	1.5	14
36	Numerical analysis of multiphase flow of couple stress fluid thermally effected by moving surface. <i>International Journal of Modern Physics B</i> , 2021, 35, 2150188.	2.0	14

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37	Thermal analysis of blood flow of Newtonian, pseudo-plastic, and dilatant fluids through an inclined wavy channel due to metachronal wave of cilia. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110490.	1.6	14
38	Theoretical study of transport of MHD peristaltic flow of fluid under the impact of viscous dissipation. <i>Waves in Random and Complex Media</i> , 0, , 1-22.	2.7	13
39	Heat transmission in a magnetohydrodynamic multiphase flow induced by metachronal propulsion through porous media with thermal radiation. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, , 095440892210752.	2.5	12
40	Role of dipole interactions in Darcy–Forchheimer first-order velocity slip nanofluid flow of Williamson model with Robin conditions. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 5343-5350.	3.1	11
41	Theoretical study of an unsteady ciliary hemodynamic fluid flow subject to the Newtonian's boundary conditions. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402110404.	1.6	11
42	Impact of gold and silver nanoparticles in highly viscous flows with different body forces. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 376-392.	3.3	10
43	Flow of nanofluid towards a Riga surface with heat and mass transfer under the effects of activation energy and thermal radiation. <i>International Journal of Modern Physics B</i> , 2021, 35, .	2.0	9
44	Impact of slip boundary conditions, magnetic force, and porous medium on blood flow of Jeffrey fluid. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2022, 102, .	1.6	8
45	MHD two-phase flow of Jeffrey fluid suspended with Hafnium and crystal particles: Analytical treatment. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	3.6	7
46	Numerical solution of gyrotactic microorganism flow of nanofluid over a Riga plate with the characteristic of chemical reaction and convective condition. <i>Waves in Random and Complex Media</i> , 0, , 1-23.	2.7	7
47	Perturbation based analytical solutions of non-Newtonian differential equation with heat and mass transportation between horizontal permeable channel. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	3.6	6
48	Mathematical modeling and numerical solution of crossflow of non-Newtonian fluid: Effects of viscous dissipation and slip boundary conditions. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2022, 102, e202100130.	1.6	5
49	Numerical study of squeezing flow past a Riga plate with activation energy and chemical reactions: effects of convective and second-order slip boundary conditions. <i>Waves in Random and Complex Media</i> , 0, , 1-14.	2.7	4
50	A note on the multiphase flow of third grade fluid with wall properties. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	2.7	4
51	Perturbation and numerical solutions of non-Newtonian fluid bounded within in a porous channel: Applications of pseudo-spectral collocation method. <i>Numerical Methods for Partial Differential Equations</i> , 2020, , .	3.6	2
52	Impact of nano metallic particles and magnetic force on multi-phase flow of third-grade fluid in divergent channel: analytical study. <i>International Journal of Modelling and Simulation</i> , 2023, 43, 426-437.	3.3	2
53	FULLY DEVELOPED BUBBLY TWO-PHASE FLOW THROUGH A PIPE: AN ANALYTICAL SOLUTION. <i>WIT Transactions on Engineering Sciences</i> , 2019, , .	0.0	0