Muhammad Bilal

List of Publications by Year
in descending order

49 papers	1,389 citations	313897 21 h-index	389158 33 g-index
51 all docs	51 docs citations	51 times ranked	841 citing authors

#	Article	IF	Citations
1	Darcy-Forchheimer flow of Maxwell nanofluid flow with nonlinear thermal radiation and activation energy. AIP Advances, 2018, 8, .	1.3	105
2	Radiative Williamson nanofluid flow over a convectively heated Riga plate with chemical reaction-A numerical approach. Chinese Journal of Physics, 2017, 55, 1663-1673.	4.0	76
3	Numerical study of magnetohydrodynamics and thermal radiation on Williamson nanofluid flow over a stretching cylinder with variable thermal conductivity. AEJ - Alexandria Engineering Journal, 2018, 57, 3281-3289.	6.7	69
4	Mixed convective flow of Maxwell nanofluid past a porous vertical stretched surface â€“ An optimal solution. Results in Physics, 2016, 6, 1072-1079.	4.2	62
5	Influence of homogeneous-heterogeneous reactions on MHD 3D Maxwell fluid flow with Cattaneo-Christov heat flux and convective boundary condition. Journal of Molecular Liquids, 2017, 230, 415-422.	5.0	62
6	Effects of Variable Thermal Conductivity and Non-linear Thermal Radiation Past an Eyring Powell Nanofluid Flow with Chemical Reaction. Communications in Theoretical Physics, 2017, 67, 723.	2.4	57
7	Unsteady hybrid-nanofluid flow comprising ferrousoxide and CNTs through porous horizontal channel with dilating/squeezing walls. Scientific Reports, 2021, 11, 12637.	3.4	57
8	Effects of thermal and solutal stratification on jeffrey magneto-nanofluid along an inclined stretching cylinder with thermal radiation and heat generation/absorption. International Journal of Mechanical Sciences, 2017, 131-132, 317-324.	6.9	56
9	Radiative Flow of Powell-Eyring Magneto-Nanofluid over a Stretching Cylinder with Chemical Reaction and Double Stratification near a Stagnation Point. PLoS ONE, 2017, 12, e0170790.	2.5	56
10	Hall current effect on unsteady rotational flow of carbon nanotubes with dust particles and nonlinear thermal radiation in Darcyâ€“Forchheimer porous media. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3127-3137.	3.6	53
11	Micropolar flow of EMHD nanofluid with nonlinear thermal radiation and slip effects. AEJ - Alexandria Engineering Journal, 2020, 59, 965-976.	6.7	50
12	Multiple characteristics of threeâ€dimensional radiative Cross fluid with velocity slip and inclined magnetic field over a stretching sheet. Heat Transfer, 2021, 50, 3325-3341.	3.0	42
13	Numerical analysis of a second-grade fuzzy hybrid nanofluid flow and heat transfer over a permeable stretching/shrinking sheet. Scientific Reports, 2022, 12, 1631.	3.4	36
14	On MHD radiative Jeffery nanofluid flow with convective heat and mass boundary conditions. Neural Computing and Applications, 2018, 30, 2739-2748.	5.7	32
15	A Numerical Investigation of 3D MHD Rotating Flow with Binary Chemical Reaction, Activation Energy and Non-Fourier Heat Flux. Communications in Theoretical Physics, 2018, 70, 089.	2.4	32
16	An entropy optimization study of non-Darcian magnetohydrodynamic Williamson nanofluid with nonlinear thermal radiation over a stratified sheet. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1883-1894.	2.5	32
17	Impact of generalized Fourierâ€™s and Fickâ€™s laws on MHD 3D second grade nanofluid flow with variable thermal conductivity and convective heat and mass conditions. Physics of Fluids, 2017, 29, .	3.9	31
18	Three dimensional MHD upper-convected Maxwell nanofluid flow with nonlinear radiative heat flux. AEJ - Alexandria Engineering Journal, 2018, 57, 1917-1925.	6.7	31

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19	Flow and heat transfer analysis of Eyring-Powell fluid over stratified sheet with mixed convection. Journal of the Egyptian Mathematical Society, 2020, 28, .	1.2	30
20	Dissipated electroosmotic EMHD hybrid nanofluid flow through the micro-channel. Scientific Reports, 2022, 12, 4771.	3.4	30
21	MHD Boundary Layer Flow of Carreau Fluid over a Convectively Heated Bidirectional Sheet with Non-Fourier Heat Flux and Variable Thermal Conductivity. Symmetry, 2019, 11, 618.	2.3	27
22	Analysis of non-Newtonian fluid flow over fine rotating thin needle for variable viscosity and activation energy. Archive of Applied Mechanics, 2021, 91, 1079-1095.	2.2	27
23	MHD Stagnation Point Flow of Williamson Fluid over a Stretching Cylinder with Variable Thermal Conductivity and Homogeneous/Heterogeneous Reaction. Communications in Theoretical Physics, 2017, 67, 688.	2.4	25
24	Entropy Analysis of 3D Non-Newtonian MHD Nanofluid Flow with Nonlinear Thermal Radiation Past over Exponential Stretched Surface. Entropy, 2018, 20, 930.	2.3	25
25	Numerical analysis for the non-Newtonian flow over stratified stretching/shrinking inclined sheet with the aligned magnetic field and nonlinear convection. Archive of Applied Mechanics, 2021, 91, 949-964.	2.2	25
26	Heat generation in mixed convected Williamson liquid stretching flow under generalized Fourier concept. Applied Nanoscience (Switzerland), 2020, 10, 4439-4444.	3.1	24
27	Numerical Investigation of MWCNT and SWCNT Fluid Flow along with the Activation Energy Effects over Quartic Auto Catalytic Endothermic and Exothermic Chemical Reactions. Mathematics, 2022, 10, 4636.	2.3	24
28	On three-dimensional MHD Oldroyd-B fluid flow with nonlinear thermal radiation and homogeneousâ€“heterogeneous reaction. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.7	20
29	Soret and Dufour Effects on Three Dimensional Upper-Convected Maxwell Fluid with Chemical Reaction and Non-Linear Radiative Heat Flux. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.2	17
30	On MHD 3D upper convected Maxwell fluid flow with thermophoretic effect using nonlinear radiative heat flux. Canadian Journal of Physics, 2018, 96, 1-10.	1.1	17
31	Upshot of Chemical Species and Nonlinear Thermal Radiation on Oldroyd-B Nanofluid Flow Past a Bi-directional Stretched Surface with Heat Generation/Absorption in a Porous Media. Communications in Theoretical Physics, 2018, 70, 071.	2.4	17
32	Numerical Study of Three Dimensional Mixed Convective Maxwell Nanofluid Flow Over a Stretching Surface with Non-Linear Thermal Radiation and Convective Boundary Conditions. Journal of Nanofluids, 2019, 8, 160-170.	2.9	16
33	Numerical Simulation of Magnetohydrodynamic Radiative Flow of Casson Nanofluid with Chemical Reaction Past a Porous Media. Journal of Computational and Theoretical Nanoscience, 2017, 14, 5788-5796.	0.5	13
34	A novel nonlinear diffusion model of magneto-micropolar fluid comprising Joule heating and velocity slip effects. Waves in Random and Complex Media, 0, , 1-17.	2.7	12
35	Magneto-micropolar nanofluid flow through the convective permeable channel using Kooâ€“Kleinstreuerâ€“Li model. Journal of Magnetism and Magnetic Materials, 2023, 565, 170288.	2.3	12
36	Thermally Radiative Rotating Magneto-Nanofluid Flow over an Exponential Sheet with Heat Generation and Viscous Dissipation: A Comparative Study. Communications in Theoretical Physics, 2018, 69, 317.	2.4	11

#	Article	IF	Citations
37	MHD stagnation point flow and heat transfer in viscoelastic fluid with Cattaneoâ€“Christov heat flux model. Neural Computing and Applications, 2018, 30, 2979-2986.	5.7	11
38	Visualization of stratification based Eyringâ€“Powell material flow capturing nonlinear convectionÂeffects. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2577-2584.	3.6	11
39	Timeâ€dependent hydromagnetic stagnation point flow of a Maxwell nanofluid with melting heat effect and amended Fourier andÂFick's laws. Heat Transfer, 2021, 50, 4417-4434.	3.0	11
40	A numerical study of rotating BÃ¶dewadt flow of micropolar fluid over porous disk. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 2147-2154.	2.5	9
41	Numerical and sensitivity analysis of MHD bioconvective slip flow of nanomaterial with binary chemical reaction and Newtonian heating. Heat Transfer, 2021, 50, 5439-5466.	3.0	7
42	Radiative flow of nanofluid past a convected vertical Riga plate with activation energy and nonlinear heat generation. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 1799-1807.	2.5	5
43	Promoting Ethical Awareness in Communication Analysis: Investigating Potentials and Limits of Visual Analytics for Intelligence Applications. , 2022, , .		4
44	Analysis of MHD torsional nanofluid flow through concentric cylinders with nonlinear thermal radiation. International Journal of Modelling and Simulation, 0, , 1-19.	3.4	4
45	Three-dimensional stagnation point Casson nanofluid flow along with thermal radiation, heat source/sink and gyrotactic microorganisms. Chinese Journal of Physics, 2021, , .	4.0	2
46	Computational Analysis of new Degree-based descriptors of oxide networks. Open Chemistry, 2019, 17, 177-182.	2.0	1
47	Numerical Investigation of the Finite Thin Film Flow for Hybrid Nanofluid with Kerosene Oil as Base Fluid over a Stretching Surface along with the Viscous Dissipation and Variable Thermal Conductivity Effects. Journal of Mathematics, 2023, 2023, 1-12.	1.0	0
48	Numerical Investigation of Entropy Generation on Micropolar Trihybrid Nanofluid Flow with Blood as Base Fluid in a Channel. Journal of Mathematics, 2024, 2024, .	1.0	0
49	A numerical simulation of the unsteady MHD nanofluid flow over a rotating disk in a porous medium with uniform suction and convective effects. International Journal of Ambient Energy, 2024, 45, .	2.4	0