

# Muhammad Bilal

## List of Publications by Year in descending order

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102  
papers

2,966  
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153493

30  
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214353

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106  
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106  
docs citations

106  
times ranked

4599  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical analysis of MHD tangent hyperbolic nanofluid flow over a stretching surface subject to heat source/sink. <i>Pramana - Journal of Physics</i> , 2024, 98, .	1.6	7
2	Parametric analysis of pollutant discharge concentration in non-Newtonian nanofluid flow across a permeable Riga sheet with thermal radiation. <i>AIP Advances</i> , 2024, 14, .	1.3	1
3	Couple-stress nanofluid flow comprising gyrotactic microbes subject to convective boundary conditions: Numerical solution. <i>AIP Advances</i> , 2024, 14, .	1.3	1
4	Numerical investigation of forced convective MHD tangent hyperbolic nanofluid flow with heat source/sink across a permeable wedge. <i>AIP Advances</i> , 2024, 14, .	1.3	1
5	Novel numerical approach toward hybrid nanofluid flow subject to Lorentz force and homogenous/heterogeneous chemical reaction across coaxial cylinders. <i>AIP Advances</i> , 2024, 14, .	1.3	0
6	The numerical study of nanofluid flow with energy and mass transfer over a stretching/shrinking wedge. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2023, 237, 2134-2143.	2.5	6
7	Heat and mass transfer through MHD Darcy Forchheimer Casson hybrid nanofluid flow across an exponential stretching sheet. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2023, 103, .	1.7	41
8	Modified Buongiorno's model for the analysis of chemically reacting jet flow of ternary hybrid nanofluid under the influence of activation energy and bioactive mixers. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2023, 103, .	1.7	4
9	Numerical simulation of energy transfer in radiative hybrid nanofluids flow influenced by second-order chemical reaction and magnetic field. <i>AIP Advances</i> , 2023, 13, .	1.3	28
10	Energy transmission through carreau yasuda fluid influenced by ethylene glycol with activation energy and ternary hybrid nanocomposites by using a mathematical model. <i>Heliyon</i> , 2023, 9, e14740.	3.3	19
11	Motile micro-organism based trihybrid nanofluid flow with an application of magnetic effect across a slender stretching sheet: Numerical approach. <i>AIP Advances</i> , 2023, 13, .	1.3	33
12	Fractional study of radiative Brinkman-type nanofluid flow across a vertical plate with the effect of Lorentz force and Newtonian heating. <i>AIP Advances</i> , 2023, 13, .	1.3	22
13	Numerical solution for the electrically conducting hybrid nanofluid flow between two parallel rotating surfaces subject to thermal radiation. <i>AIP Advances</i> , 2023, 13, .	1.3	13
14	Motile microorganisms hybrid nanoliquid flow with the influence of activation energy and heat source over a rotating disc. <i>Nanotechnology</i> , 2023, 34, 425404.	2.7	11
15	Fractional analysis of unsteady radiative brinkman-type nanofluid flow comprised of CoFe <sub>2</sub> O <sub>3</sub> nanoparticles across a vertical plate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2023, 148, 13869-13882.	3.6	6
16	Parametric estimation of gyrotactic microorganism hybrid nanofluid flow between the conical gap of spinning disk-cone apparatus. <i>Scientific Reports</i> , 2022, 12, 59.	3.4	50
17	Parametric simulation of micropolar fluid with thermal radiation across a porous stretching surface. <i>Scientific Reports</i> , 2022, 12, 2542.	3.4	45
18	Numerical simulation of bioconvective Darcy Forchhemier nanofluid flow with energy transition over a permeable vertical plate. <i>Scientific Reports</i> , 2022, 12, 3228.	3.4	19

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19	Mixed convection and thermally radiative hybrid nanofluid flow over a curved surface. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322210828.	1.6	12
20	Computational assessment of hybrid nanofluid flow with the influence of hall current and chemical reaction over a slender stretching surface. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 10319-10331.	6.7	92
21	Computational Valuation of Darcy Ternary-Hybrid Nanofluid Flow across an Extending Cylinder with Induction Effects. <i>Micromachines</i> , 2022, 13, 588.	3.0	103
22	A croconate-directed supramolecular self-healable Cd( $\text{SCN}$ )-metallogel with dispersed 2D-nanosheets of hexagonal boron nitride: a comparative outcome of the charge-transport phenomena and non-linear rectifying behaviour of semiconducting diodes. <i>Dalton Transactions</i> , 2022, 51, 9007-9016.	3.4	16
23	Numerical study of Williamson hybrid nanofluid flow with thermal characteristics past over an extending surface. <i>Heat Transfer</i> , 2022, 51, 6641-6655.	3.0	30
24	Numerical Analysis of an Unsteady, Electroviscous, Ternary Hybrid Nanofluid Flow with Chemical Reaction and Activation Energy across Parallel Plates. <i>Micromachines</i> , 2022, 13, 874.	3.0	44
25	Non-Fourier energy transmission in power-law hybrid nanofluid flow over a moving sheet. <i>Scientific Reports</i> , 2022, 12, .	3.4	36
26	Melting Heat Transition in a Spinning Flow of Silver-Magnesium Oxide/Engine Oil Hybrid Nanofluid Using Parametric Estimation. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-13.	2.8	13
27	Numerical computation for the dual solution of Sisko hybrid nanofluid flow through a heated shrinking/stretching porous disk. <i>International Journal of Ambient Energy</i> , 2022, 43, 8802-8811.	2.4	8
28	Numerical Approach toward Ternary Hybrid Nanofluid Flow Using Variable Diffusion and Non-Fourier's Concept. <i>ACS Omega</i> , 2022, 7, 29380-29390.	3.6	42
29	Mixed Convection Nanofluid Flow with Heat Source and Chemical Reaction over an Inclined Irregular Surface. <i>ACS Omega</i> , 2022, 7, 30477-30485.	3.6	42
30	Computational Study of MHD Darcy-Forchheimer Hybrid Nanofluid Flow under the Influence of Chemical Reaction and Activation Energy over a Stretching Surface. <i>Symmetry</i> , 2022, 14, 1759.	2.3	19
31	Numerical Simulations through PCM for the Dynamics of Thermal Enhancement in Ternary MHD Hybrid Nanofluid Flow over Plane Sheet, Cone, and Wedge. <i>Symmetry</i> , 2022, 14, 2419.	2.3	25
32	Numerical analysis for the non-Newtonian flow over stratified stretching/shrinking inclined sheet with the aligned magnetic field and nonlinear convection. <i>Archive of Applied Mechanics</i> , 2021, 91, 949-964.	2.2	25
33	A Miniaturized and Polarization Independent Electromagnetic Shield for C and X-Band Applications. <i>Wireless Personal Communications</i> , 2021, 117, 405-416.	2.8	2
34	Time-dependent hydromagnetic stagnation point flow of a Maxwell nanofluid with melting heat effect and amended Fourier and Fick's laws. <i>Heat Transfer</i> , 2021, 50, 4417-4434.	3.0	11
35	Von-Karman rotating flow in variable magnetic field with variable physical properties. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402199046.	1.6	19
36	Numerical and sensitivity analysis of MHD bioconvective slip flow of nanomaterial with binary chemical reaction and Newtonian heating. <i>Heat Transfer</i> , 2021, 50, 5439-5466.	3.0	7

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37	Numerical approach towards gyrotactic microorganisms hybrid nanoliquid flow with the hall current and magnetic field over a spinning disk. Scientific Reports, 2021, 11, 8948.	3.4	52
38	Numerical Analysis of Thermal Radiative Maxwell Nanofluid Flow Over-Stretching Porous Rotating Disk. Micromachines, 2021, 12, 540.	3.0	51
39	Axisymmetric hybrid nanofluid flow with heat and mass transfer amongst the two gyrating plates. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000146.	1.7	34
40	Gyrotactic micro-organism flow of Maxwell nanofluid between two parallel plates. Scientific Reports, 2021, 11, 15142.	3.4	22
41	Numerical Approximation of Microorganisms Hybrid Nanofluid Flow Induced by a Wavy Fluctuating Spinning Disc. Coatings, 2021, 11, 1032.	2.7	49
42	The parametric study of hybrid nanofluid flow with heat transition characteristics over a fluctuating spinning disk. PLoS ONE, 2021, 16, e0254457.	2.5	43
43	Versatility of a single piece scapular tip and lateral border free flap for mandibular reconstruction: A virtual study on angle correspondence. Oral Oncology, 2021, 121, 105379.	1.9	8
44	Fractional simulation for Darcy-Forchheimer hybrid nanoliquid flow with partial slip over a spinning disk. AEJ - Alexandria Engineering Journal, 2021, 60, 4787-4796.	6.7	92
45	Comparative numerical analysis of Maxwell's time-dependent thermo-diffusive flow through a stretching cylinder. Case Studies in Thermal Engineering, 2021, 27, 101301.	5.8	45
46	Couette flow of viscoelastic dusty fluid in a rotating frame along with the heat transfer. Scientific Reports, 2021, 11, 506.	3.4	24
47	Fractional order stagnation point flow of the hybrid nanofluid towards a stretching sheet. Scientific Reports, 2021, 11, 20429.	3.4	46
48	Thin-film flow of Carreau fluid over a stretching surface including the couple stress and uniform magnetic field. Partial Differential Equations in Applied Mathematics, 2021, 4, 100162.	2.5	10
49	Durability of Zephyr Valve treatment: 24-month follow-up in the TRANSFORM Study. European Respiratory Journal, 2021, , .	7.5	0
50	Time fractional model of electro-osmotic Brinkman-type nanofluid with heat generation and chemical reaction effects: application in cleansing of contaminated water. Scientific Reports, 2021, 11, 24402.	3.4	13
51	Viscous dissipated hybrid nanoliquid flow with Darcy-Forchheimer and forced convection over a moving thin needle. AIP Advances, 2020, 10, .	1.3	32
52	Numerical analysis of thermal conductive hybrid nanofluid flow over the surface of a wavy spinning disk. Scientific Reports, 2020, 10, 18776.	3.4	63
53	Multiplicity dependence of $\pi$ , $K$ , and $p$ production in $pp$ collisions at $\sqrt{s} = 13.6$ TeV. European Physical Journal C, 2020, 80, 1.	4.0	43
54	P1786 Impact of exercise on platelet activity in patients with significant ischemic mitral regurgitation qualified for cardiosurgery treatment. European Heart Journal Cardiovascular Imaging, 2020, 21, .	1.1	0

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55	The non-Newtonian maxwell nanofluid flow between two parallel rotating disks under the effects of magnetic field. Scientific Reports, 2020, 10, 17088.	3.4	53
56	Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .	1.3	141
57	Magnetic Dipole Impact on the Hybrid Nanofluid Flow over an Extending Surface. Scientific Reports, 2020, 10, 8474.	3.4	83
58	Variable thickness flow over a rotating disk under the influence of variable magnetic field: An application to parametric continuation method. Advances in Mechanical Engineering, 2020, 12, 168781402093638.	1.6	52
59	Electrokinetic viscous rotating disk flow of Poisson-Nernst-Planck equation for ion transport. Journal of Molecular Liquids, 2020, 313, 113412.	5.0	57
60	Study on effects of shockwave treatment on PVA films in view of electrical property changes. Materials Research Express, 2020, 7, 015344.	1.7	3
61	Thin film flow of the water-based carbon nanotubes hybrid nanofluid under the magnetic effects. Heat Transfer, 2020, 49, 3211-3227.	3.0	40
62	A Report On Fluctuating Free Convection Flow Of Heat Absorbing Viscoelastic Dusty Fluid Past In A Horizontal Channel With MHD Effect. Scientific Reports, 2020, 10, 8523.	3.4	23
63	Data collection of 3D spatial features of gestures from static peruvian sign language alphabet for sign language recognition. , 2020, , .		2
64	Two-Phase Fluctuating Flow of Dusty Viscoelastic Fluid Between Non-Conducting Rigid Plates With Heat Transfer. IEEE Access, 2019, 7, 123299-123306.	4.4	22
65	An FSS Based Multiband MIMO System Incorporating 3D Antennas for WLAN/WiMAX/5G Cellular and 5G Wi-Fi Applications. IEEE Access, 2019, 7, 144732-144740.	4.4	45
66	Detecting emotional valence using time-domain analysis of speech signals. , 2019, 2019, 3605-3608.		7
67	An FSS-employed UWB antenna system for high-gain portable devices. Microwave and Optical Technology Letters, 2019, 61, 1404-1410.	1.5	9
68	Improved relaxation method for control design of non-homogeneous Markovian jump fuzzy systems with general transition descriptions. IET Control Theory and Applications, 2018, 12, 155-162.	2.2	7
69	A Novel Semi-Elliptical UWB Antenna with Parasitic Sinusoids. , 2018, , .		2
70	AgBr/g-C <sub>3</sub> N <sub>4</sub> nanocomposites for enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> . RSC Advances, 2018, 8, 34428-34436.	3.7	15
71	229. Psychophysiological Biomarkers Predicting the Development of PTSD: An Emergency Department Prospective Longitudinal Study. Biological Psychiatry, 2018, 83, S92.	1.3	2
72	How much does multi-temporal Sentinel-2 data improve crop type classification?. International Journal of Applied Earth Observation and Geoinformation, 2018, 72, 122-130.	2.5	182

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73	Expanding the therapeutic options for renal involvement in lupus: eculizumab, available evidence. <i>Rheumatology International</i> , 2017, 37, 1249-1255.	3.2	65
74	A novel miniaturized FSS based electromagnetic shield for SATCOM applications. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 2107-2112.	1.5	20
75	UWB-MIMO doublet with split decoupling structure and defected grounds. , 2017, , .		4
76	An FSS-Based Nonplanar Quad-Element UWB-MIMO Antenna System. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 987-990.	4.4	59
77	Frequency selective surface for X-band shielding applications. , 2016, , .		2
78	Size reduction and higher operating bands of CRLH antennas. , 2016, , .		0
79	Flexible Organic Tribotronic Transistor Memory for a Visible and Wearable Touch Monitoring System. <i>Advanced Materials</i> , 2016, 28, 106-110.	24.3	100
80	Persistent Cat Scratch Disease Requiring Surgical Excision in a Patient With MPGN. <i>Pediatrics</i> , 2015, 135, e1514-e1517.	2.2	9
81	A Randomised Controlled Trial to Evaluate the Effectiveness of Intrathecal Bupivacaine Combined with Different Adjuvants (Fentanyl, Clonidine and Dexmedetomidine) in Caesarean Section. <i>Drug Research</i> , 2015, 65, 581-586.	1.5	31
82	Forensische DNA-Analyse. <i>Springer-Lehrbuch</i> , 2014, , 223-237.	0.0	0
83	MIMO application UWB antenna doublet incorporating a sinusoidal decoupling structure. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1547-1553.	1.5	19
84	Anomalous perovskite $\text{PbRuO}_3$ stabilized under high pressure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20003-20007.	7.6	14
85	Estimating the permeability distribution and its uncertainty at the EGS demonstration reservoir Soutzâ€ousâ€ForÃts using the ensemble Kalman filter. <i>Water Resources Research</i> , 2012, 48, .	4.2	49
86	Mass Structure Deformation Monitoring using Low Cost Differential Global Positioning System Device. <i>American Journal of Applied Sciences</i> , 2009, 6, 152-156.	0.2	5
87	The effect of erythropoietin in neonatal rat model of hypoxic-ischemic brain injury. <i>Korean Journal of Pediatrics</i> , 2009, 52, 105.	1.6	1
88	Crystal Structure of 9Î±,11-Epoxy-7Î±-(methoxycarbonyl)-3-oxo-17Î±-pregn-4-ene-21,17-carbolactone. <i>Journal of Chemical Crystallography</i> , 2008, 38, 659-661.	1.0	3
89	Newly published studies on satiety benefits of Korean pine nut oil (PinnoThinâ„¢). <i>Oleagineux Corps Gras Lipides</i> , 2008, 15, 279-282.	0.3	0
90	Prediction of Cumulative Fatigue Damage of Mooring Dolphins. , 2004, , 331.		0

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91	Coherently Photoinduced Ferromagnetism in Diluted Magnetic Semiconductors. Physical Review Letters, 2004, 93, 127201.	8.0	38
92	Use of calcium antagonists to treat heart failure. Clinical Cardiology, 1994, 17, 101-102.	1.9	9
93	River Channel Roughness. Transactions of the American Society of Civil Engineers, 1952, 117, 1121-1132.	0.0	199
94	The parametric computation of nonlinear convection magnetohydrodynamic nanofluid flow with internal heating across a fixed and spinning disk. Waves in Random and Complex Media, 0, , 1-16.	2.7	18
95	The study of nanofluid flow with motile microorganism and thermal slip condition across a vertical permeable surface. Waves in Random and Complex Media, 0, , 1-18.	2.7	18
96	The study of Darcy-Forchheimer hybrid nanofluid flow with the thermal slip and dissipation effect using parametric continuation approach over a rotating disk. Waves in Random and Complex Media, 0, , 1-14.	2.7	13
97	Analytical study of three-dimensional MHD hybrid nanofluid flow along with thermal characteristics and radiative solar energy. Waves in Random and Complex Media, 0, , 1-15.	2.7	9
98	Numerical evaluation of Darcy Forchhemier hybrid nanofluid flow under the consequences of activation energy and second-order chemical reaction over a slender stretching sheet. Waves in Random and Complex Media, 0, , 1-16.	2.7	9
99	Numerical calculation of unsteady MHD nanofluid flow across two fluctuating discs with chemical reaction and zero mass flux. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 0, , .	1.7	4
100	Numerical investigation of MHD hybrid nanofluid flow with heat transfer subject to thermal radiation across two coaxial cylinders. Numerical Heat Transfer; Part A: Applications, 0, , 1-15.	2.1	2
101	Numerical simulation of nanofluid flow across a slender stretching Riga plate subjected to heat source and activation energy. Numerical Heat Transfer, Part B: Fundamentals, 0, , 1-14.	0.9	5
102	Numerical simulation of hybrid nanofluid flow and heat transfer across parallel surfaces with suction/injection and magnetic effect. Numerical Heat Transfer; Part A: Applications, 0, , 1-18.	2.1	4