

Muhammad Bilal

List of Publications by Year in descending order

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102
papers

2,966
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153493

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214353

47
g-index

106
all docs

106
docs citations

106
times ranked

4599
citing authors

#	ARTICLE	IF	CITATIONS
1	River Channel Roughness. Transactions of the American Society of Civil Engineers, 1952, 117, 1121-1132.	0.0	199
2	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
3	Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .	1.3	141
4	Computational Valuation of Darcy Ternary-Hybrid Nanofluid Flow across an Extending Cylinder with Induction Effects. Micromachines, 2022, 13, 588.	3.0	103
5	Flexible Organic Tribotronic Transistor Memory for a Visible and Wearable Touch Monitoring System. Advanced Materials, 2016, 28, 106-110.	24.3	100
6	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
7	Computational assessment of hybrid nanofluid flow with the influence of hall current and chemical reaction over a slender stretching surface. AEJ - Alexandria Engineering Journal, 2022, 61, 10319-10331.	6.7	92
8	Magnetic Dipole Impact on the Hybrid Nanofluid Flow over an Extending Surface. Scientific Reports, 2020, 10, 8474.	3.4	83
9	Expanding the therapeutic options for renal involvement in lupus: eculizumab, available evidence. Rheumatology International, 2017, 37, 1249-1255.	3.2	65
10	Numerical analysis of thermal conductive hybrid nanofluid flow over the surface of a wavy spinning disk. Scientific Reports, 2020, 10, 18776.	3.4	63
11	An FSS-Based Nonplanar Quad-Element UWB-MIMO Antenna System. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 987-990.	4.4	59
12	Electrokinetic viscous rotating disk flow of Poisson-Nernst-Planck equation for ion transport. Journal of Molecular Liquids, 2020, 313, 113412.	5.0	57
13	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
14	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
15	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
16	Numerical Analysis of Thermal Radiative Maxwell Nanofluid Flow Over-Stretching Porous Rotating Disk. Micromachines, 2021, 12, 540.	3.0	51
17	Parametric estimation of gyrotactic microorganism hybrid nanofluid flow between the conical gap of spinning disk-cone apparatus. Scientific Reports, 2022, 12, 59.	3.4	50
18	Estimating the permeability distribution and its uncertainty at the EGS demonstration reservoir Soutzâ€ousâ€ForÃats using the ensemble Kalman filter. Water Resources Research, 2012, 48, .	4.2	49

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19	Numerical Approximation of Microorganisms Hybrid Nanofluid Flow Induced by a Wavy Fluctuating Spinning Disc. Coatings, 2021, 11, 1032.	2.7	49
20	Fractional order stagnation point flow of the hybrid nanofluid towards a stretching sheet. Scientific Reports, 2021, 11, 20429.	3.4	46
21	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
22	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
23	Parametric simulation of micropolar fluid with thermal radiation across a porous stretching surface. Scientific Reports, 2022, 12, 2542.	3.4	45
24	Numerical Analysis of an Unsteady, Electroviscous, Ternary Hybrid Nanofluid Flow with Chemical Reaction and Activation Energy across Parallel Plates. Micromachines, 2022, 13, 874.	3.0	44
25	Multiplicity dependence of π , K, and p production in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 1.	4.0	43
26	The parametric study of hybrid nanofluid flow with heat transition characteristics over a fluctuating spinning disk. PLoS ONE, 2021, 16, e0254457.	2.5	43
27	Numerical Approach toward Ternary Hybrid Nanofluid Flow Using Variable Diffusion and Non-Fourier's Concept. ACS Omega, 2022, 7, 29380-29390.	3.6	42
28	Mixed Convection Nanofluid Flow with Heat Source and Chemical Reaction over an Inclined Irregular Surface. ACS Omega, 2022, 7, 30477-30485.	3.6	42
29	Heat and mass transfer through MHD Darcy Forchheimer Casson hybrid nanofluid flow across an exponential stretching sheet. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2023, 103, .	1.7	41
30	Thin film flow of the water-based carbon nanotubes hybrid nanofluid under the magnetic effects. Heat Transfer, 2020, 49, 3211-3227.	3.0	40
31	Coherently Photoinduced Ferromagnetism in Diluted Magnetic Semiconductors. Physical Review Letters, 2004, 93, 127201.	8.0	38
32	Non-Fourier energy transmission in power-law hybrid nanofluid flow over a moving sheet. Scientific Reports, 2022, 12, .	3.4	36
33	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
34	Motile micro-organism based trihybrid nanofluid flow with an application of magnetic effect across a slender stretching sheet: Numerical approach. AIP Advances, 2023, 13, .	1.3	33
35	Viscous dissipated hybrid nanofluid flow with Darcy's Forchheimer and forced convection over a moving thin needle. AIP Advances, 2020, 10, .	1.3	32
36	A Randomised Controlled Trial to Evaluate the Effectiveness of Intrathecal Bupivacaine Combined with Different Adjuvants (Fentanyl, Clonidine and Dexmedetomidine) in Caesarean Section. Drug Research, 2015, 65, 581-586.	1.5	31

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37	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
38	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
39	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
40	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
41	Couette flow of viscoelastic dusty fluid in a rotating frame along with the heat transfer. <i>Scientific Reports</i> , 2021, 11, 506.	3.4	24
42	A Report On Fluctuating Free Convection Flow Of Heat Absorbing Viscoelastic Dusty Fluid Past In A Horizontal Channel With MHD Effect. <i>Scientific Reports</i> , 2020, 10, 8523.	3.4	23
43	Two-Phase Fluctuating Flow of Dusty Viscoelastic Fluid Between Non-Conducting Rigid Plates With Heat Transfer. <i>IEEE Access</i> , 2019, 7, 123299-123306.	4.4	22
44	Gyrotactic micro-organism flow of Maxwell nanofluid between two parallel plates. <i>Scientific Reports</i> , 2021, 11, 15142.	3.4	22
45	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
46	A novel miniaturized FSS based electromagnetic shield for SATCOM applications. <i>Microwave and Optical Technology Letters</i> , 2017, 59, 2107-2112.	1.5	20
47	MIMO application UWB antenna doublet incorporating a sinusoidal decoupling structure. <i>Microwave and Optical Technology Letters</i> , 2014, 56, 1547-1553.	1.5	19
48	Von-Karman rotating flow in variable magnetic field with variable physical properties. <i>Advances in Mechanical Engineering</i> , 2021, 13, 168781402199046.	1.6	19
49	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
50	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
51	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
52	The parametric computation of nonlinear convection magnetohydrodynamic nanofluid flow with internal heating across a fixed and spinning disk. <i>Waves in Random and Complex Media</i> , 0, , 1-16.	2.7	18
53	The study of nanofluid flow with motile microorganism and thermal slip condition across a vertical permeable surface. <i>Waves in Random and Complex Media</i> , 0, , 1-18.	2.7	18
54	A croconate-directed supramolecular self-healable Cd(^{II})-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

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55	AgBr/g-C ₃ N ₄ nanocomposites for enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> . RSC Advances, 2018, 8, 34428-34436.	3.7	15
56	Anomalous perovskite PbRuO ₃ stabilized under high pressure. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20003-20007.	7.6	14
57	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
58	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
59	Melting Heat Transition in a Spinning Flow of Silver-Magnesium Oxide/Engine Oil Hybrid Nanofluid Using Parametric Estimation. Journal of Nanomaterials, 2022, 2022, 1-13.	2.8	13
60	Numerical solution for the electrically conducting hybrid nanofluid flow between two parallel rotating surfaces subject to thermal radiation. AIP Advances, 2023, 13, .	1.3	13
61	Mixed convection and thermally radiative hybrid nanofluid flow over a curved surface. Advances in Mechanical Engineering, 2022, 14, 168781322210828.	1.6	12
62	Time-dependent hydromagnetic stagnation point flow of a Maxwell nanofluid with melting heat effect and amended Fourier and Fick's laws. Heat Transfer, 2021, 50, 4417-4434.	3.0	11
63	Motile microorganisms hybrid nanofluid flow with the influence of activation energy and heat source over a rotating disc. Nanotechnology, 2023, 34, 425404.	2.7	11
64	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
65	Use of calcium antagonists to treat heart failure. Clinical Cardiology, 1994, 17, 101-102.	1.9	9
66	Persistent Cat Scratch Disease Requiring Surgical Excision in a Patient With MPGN. Pediatrics, 2015, 135, e1514-e1517.	2.2	9
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	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
69	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
70	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
71	Numerical computation for the dual solution of Sisko hybrid nanofluid flow through a heated shrinking/stretching porous disk. International Journal of Ambient Energy, 2022, 43, 8802-8811.	2.4	8
72	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

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73	Detecting emotional valence using time-domain analysis of speech signals. , 2019, 2019, 3605-3608.		7
74	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
75	Numerical analysis of MHD tangent hyperbolic nanofluid flow over a stretching surface subject to heat source/sink. Pramana - Journal of Physics, 2024, 98, .	1.6	7
76	The numerical study of nanofluid flow with energy and mass transfer over a stretching/shrinking wedge. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2023, 237, 2134-2143.	2.5	6
77	Fractional analysis of unsteady radiative brinkman-type nanofluid flow comprised of CoFe ₂ O ₃ nanoparticles across a vertical plate. Journal of Thermal Analysis and Calorimetry, 2023, 148, 13869-13882.	3.6	6
78	Mass Structure Deformation Monitoring using Low Cost Differential Global Positioning System Device. American Journal of Applied Sciences, 2009, 6, 152-156.	0.2	5
79	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
80	UWB-MIMO doublet with split decoupling structure and defected grounds. , 2017, , .		4
81	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. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2023, 103, .	1.7	4
82	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
83	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
84	Crystal Structure of 9,11-Epoxy-7-(methoxycarbonyl)-3-oxo-17-pregn-4-ene-21,17-carbolactone. Journal of Chemical Crystallography, 2008, 38, 659-661.	1.0	3
85	Study on effects of shockwave treatment on PVA films in view of electrical property changes. Materials Research Express, 2020, 7, 015344.	1.7	3
86	Frequency selective surface for X-band shielding applications. , 2016, , .		2
87	A Novel Semi-Elliptical UWB Antenna with Parasitic Sinusoids. , 2018, , .		2
88	229. Psychophysiological Biomarkers Predicting the Development of PTSD: An Emergency Department Prospective Longitudinal Study. Biological Psychiatry, 2018, 83, S92.	1.3	2
89	A Miniaturized and Polarization Independent Electromagnetic Shield for C and X-Band Applications. Wireless Personal Communications, 2021, 117, 405-416.	2.8	2
90	Data collection of 3D spatial features of gestures from static peruvian sign language alphabet for sign language recognition. , 2020, , .		2

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91	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
92	The effect of erythropoietin in neonatal rat model of hypoxic-ischemic brain injury. Korean Journal of Pediatrics, 2009, 52, 105.	1.6	1
93	Parametric analysis of pollutant discharge concentration in non-Newtonian nanofluid flow across a permeable Riga sheet with thermal radiation. AIP Advances, 2024, 14, .	1.3	1
94	Couple-stress nanofluid flow comprising gyrotactic microbes subject to convective boundary conditions: Numerical solution. AIP Advances, 2024, 14, .	1.3	1
95	Numerical investigation of forced convective MHD tangent hyperbolic nanofluid flow with heat source/sink across a permeable wedge. AIP Advances, 2024, 14, .	1.3	1
96	Prediction of Cumulative Fatigue Damage of Mooring Dolphins. , 2004, , 331.		0
97	Forensische DNA-Analyse. Springer-Lehrbuch, 2014, , 223-237.	0.0	0
98	Size reduction and higher operating bands of CRLH antennas. , 2016, , .		0
99	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
100	Newly published studies on satiety benefits of Korean pine nut oil (PinnoThinâ„¢). Oleagineux Corps Gras Lipides, 2008, 15, 279-282.	0.3	0
101	Durability of Zephyr Valve treatment: 24-month follow-up in the TRANSFORM Study. European Respiratory Journal, 2021, , .	7.5	0
102	Novel numerical approach toward hybrid nanofluid flow subject to Lorentz force and homogenous/heterogeneous chemical reaction across coaxial cylinders. AIP Advances, 2024, 14, .	1.3	0