Aamir Ali

List of Publications by Year
in descending order

52 papers	**1,074** citations	430754 **18** h-index	501076 **28** g-index
53 all docs	**53** docs citations	**53** times ranked	**456** citing authors

#	Article	IF	Citations
1	Investigation on TiO2â€"Cu/H2O hybrid nanofluid with slip conditions in MHD peristaltic flow of Jeffrey material. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1985-1996.	2.0	94
2	Entropy generation in electrical magnetohydrodynamic flow of Al2O3â€"Cu/H2O hybrid nanofluid with non-uniform heat flux. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2135-2148.	2.0	63
3	MHD Effects on Ciliary-Induced Peristaltic Flow Coatings with Rheological Hybrid Nanofluid. Coatings, 2020, 10, 186.	1.2	60
4	Velocity, thermal and concentration slip effects on a magneto-hydrodynamic nanofluid flow. AEJ - Alexandria Engineering Journal, 2016, 55, 2107-2114.	3.4	55
5	Effects of Variable Transport Properties on Heat and Mass Transfer in MHD Bioconvective Nanofluid Rheology with Gyrotactic Microorganisms: Numerical Approach. Coatings, 2021, 11, 231.	1.2	49
6	Heat transfer analysis of Cuâ€"Al2O3 hybrid nanofluid with heat flux and viscous dissipation. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2367-2377.	2.0	47
7	Numerical Treatment for Dynamics of Second Law Analysis and Magnetic Induction Effects on Ciliary Induced Peristaltic Transport of Hybrid Nanomaterial. Frontiers in Physics, 2021, 9, .	1.0	39
8	Nanoparticles and nonlinear thermal radiation properties in the rheology of polymeric material. Results in Physics, 2018, 8, 1038-1045.	2.0	37
9	Heat and mass transfer analysis of 3D Maxwell nanofluid over an exponentially stretching surface. Physica Scripta, 2019, 94, 065206.	1.2	35
10	Three-dimensional magnetohydrodynamic (MHD) flow of Maxwell nanofluid containing gyrotactic micro-organisms with heat source/sink. AIP Advances, 2018, 8, .	0.6	33
11	Integrated intelligent computing application for effectiveness of Au nanoparticles coated over MWCNTs with velocity slip in curved channel peristaltic flow. Scientific Reports, 2021, 11, 22550.	1.6	29
12	Entropy generation on MHD peristaltic flow of Cuâ€"water nanofluid with slip conditions. Heat Transfer - Asian Research, 2019, 48, 4301-4319.	2.8	28
13	Impact of thermal radiation and non-uniform heat flux on MHD hybrid nanofluid along a stretching cylinder. Scientific Reports, 2021, 11, 20262.	1.6	28
14	Analytical Assessment of (Al2O3â€"Ag/H2O) Hybrid Nanofluid Influenced by Induced Magnetic Field for Second Law Analysis with Mixed Convection, Viscous Dissipation and Heat Generation. Coatings, 2021, 11, 498.	1.2	27
15	An estimation of pressure rise and heat transfer rate for hybrid nanofluid with endoscopic effects and induced magnetic field: computational intelligence application. European Physical Journal Plus, 2020, 135, 1.	1.2	25
16	Impact of activation energy on hyperbolic tangent nanofluid with mixed convection rheology and entropy optimization. AEJ - Alexandria Engineering Journal, 2021, 60, 1123-1135.	3.4	25
17	Slip and Hall Effects on Peristaltic Rheology of Copper-Water Nanomaterial Through Generalized Complaint Walls With Variable Viscosity. Frontiers in Physics, 2020, 7, .	1.0	23
18	Convective and peristaltic viscous fluid flow with variable viscosity. Journal of Engineering Thermophysics, 2017, 26, 69-78.	0.6	21

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19	3-D Maxwell fluid flow over an exponentially stretching surface using 3-stage Lobatto IIIA formula. AIP Advances, 2016, 6, .	0.6	20
20	Flow of a Nanofluid and Heat Transfer in Channel With Contracting/Expanding Walls. IEEE Access, 2019, 7, 102427-102436.	2.6	20
21	Stratification phenomenon in an inclined rheology of UCM nanomaterial. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2201-2206.	0.9	20
22	Peristaltic flow of nanofluid in a deformable channel with double diffusion. SN Applied Sciences, 2020, 2, 1.	1.5	20
23	Entropy Generation Analysis and Radiated Heat Transfer in MHD (Al2O3-Cu/Water) Hybrid Nanofluid Flow. Micromachines, 2021, 12, 887.	1.4	20
24	Analytic Solution for Oscillatory Flow in a Channel for Jeffrey Fluid. Journal of Aerospace Engineering, 2014, 27, 644-651.	0.8	18
25	Heat and Mass Transfer in Three-Dimensional Flow of an Oldroyd-B Nanofluid with Gyrotactic Micro-Organisms. Mathematical Problems in Engineering, 2018, 2018, 1-15.	0.6	18
26	Numerical simulation of the combined effects of thermophoretic motion and variable thermal conductivity on free convection heat transfer. AIP Advances, 2020, 10, .	0.6	18
27	3D nanofluid flow over exponentially expanding surface of Oldroyd-B fluid. Ain Shams Engineering Journal, 2021, 12, 3939-3946.	3.5	17
28	Existence of a Hartmann layer in the peristalsis of Sisko fluid. Chinese Physics B, 2014, 23, 054702.	0.7	16
29	Hall effect on MHD Jeffrey fluid flow with Cattaneoâ€"Christov heat flux model: an application of stochastic neural computing. Complex & Intelligent Systems, 2022, 8, 5177-5201.	4.0	16
30	Hartmann boundary layer in peristaltic flow for viscoelastic fluid: Existence. Ain Shams Engineering Journal, 2022, 13, 101555.	3.5	15
31	Entropy Generation Analysis of Peristaltic Flow of Nanomaterial in a Rotating Medium through Generalized Complaint Walls of Micro-Channel with Radiation and Heat Flux Effects. Micromachines, 2022, 13, 375.	1.4	14
32	Effects of temperature dependent viscosity and thermal conductivity on natural convection flow along a curved surface in the presence of exothermic catalytic chemical reaction. PLoS ONE, 2021, 16, e0252485.	1.1	13
33	Soret and Dufour effects between two rectangular plane walls with heat source/sink. Heat Transfer - Asian Research, 2020, 49, 614-625.	2.8	12
34	Slippage phenomenon in hydromagnetic peristaltic rheology with hall current and viscous dissipation. International Journal of Nonlinear Sciences and Numerical Simulation, 2022, 23, 635-659.	0.4	12
35	Analysis of flow and heat transfer over stretching/shrinking and porous surfaces. Journal of Plastic Film and Sheeting, 2022, 38, 21-45.	1.3	10
36	Thermal-Diffusion and Diffusion-Thermo Effects in a Nanofluid Flow with Non-Uniform Heat Flux and Convective Walls. Journal of Nanofluids, 2019, 8, 1367-1372.	1.4	10

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37	Thermophoresis and concentration effects in a fourth grade peristaltic flow with convective walls. Journal of Central South University, 2017, 24, 1654-1662.	1.2	9
38	Heat source and sink effects on periodic mixed convection flow along the electrically conducting cone inserted in porous medium. PLoS ONE, 2021, 16, e0260845.	1.1	9
39	Flow between two rectangular inclined plane walls. Chinese Journal of Physics, 2017, 55, 1195-1201.	2.0	7
40	Flow in a two dimensional channel with deforming and peristaltically moving walls. SN Applied Sciences, 2019, 1, 1.	1.5	7
41	Analysis of heat transfer on MHD Jeffrey nanofluid flow over nonlinear elongating surface of variable thickness. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, e202100250.	0.9	7
42	Flow of a viscous fluid over an infinite rotating and porous disk with stretching (shrinking) effects. Revista Mexicana De FÃsica, 2020, 66, 171-179.	0.2	5
43	Mathematical modeling and numerical solution of crossâ€flow of nonâ€Newtonian fluid: Effects of viscous dissipation and slip boundary conditions. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2022, 102, e202100130.	0.9	5
44	Combined effects of viscous dissipation and magnetohydrodynamic on periodic heat transfer along a cone embedded in porous Medium. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 2325-2335.	1.4	5
45	Numerical analysis of MHD axisymmetric rotating Bodewadt rheology under viscous dissipation and ohmic heating effects. Scientific Reports, 2022, 12, .	1.6	3
46	Oscillatory Flow in a Porous Channel with Porous Medium and Small Suction. Journal of Mechanics, 2014, 30, 153-159.	0.7	2
47	Quantifying particle adhesion to the ureteral walls during peristaltic flow. Physical Review E, 2022, 105, 024406.	0.8	2
48	Oscillatory channel flow for non-Newtonian fluid. International Journal of Physical Sciences, 2011, 6, .	0.1	1
49	Oscillatory flow of second grade fluid in cylindrical tube. Applied Mathematics and Mechanics (English Edition), 2013, 34, 1097-1106.	1.9	1
50	Mixed convection of a conducting third-grade fluid past an oscillating porous plate. Journal of Engineering Thermophysics, 2017, 26, 60-68.	0.6	1
51	Transport Phenomenon in a Third-Grade Fluid Over an Oscillating Surface. Journal of Applied Mechanics and Technical Physics, 2017, 58, 990-996.	0.1	1
52	Bead-rod-spring models in random flows. Physical Review E, 2016, 94, 020501.	0.8	1