Akbar Zaman

List of Publications by Year
in descending order

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30 papers	594 citations	516710 16 h-index	642732 23 g-index
30 all docs	30 docs citations	30 times ranked	257 citing authors

#	Article	IF	Citations
1	Numerical simulations of Oldroyd 8-constant fluid flow and heat transfer in a curved channel. International Journal of Heat and Mass Transfer, 2016, 94, 500-508.	4.8	51
2	Heat and mass transfer to blood flowing through a tapered overlapping stenosed artery. International Journal of Heat and Mass Transfer, 2016, 95, 1084-1095.	4.8	47
3	Unsteady blood flow through a tapered stenotic artery using Sisko model. Computers and Fluids, 2014, 101, 42-49.	2.5	40
4	Numerical simulation of unsteady micropolar hemodynamics in a tapered catheterized artery with a combination of stenosis and aneurysm. Medical and Biological Engineering and Computing, 2016, 54, 1423-1436.	2.8	35
5	Numerical simulation of pulsatile flow of blood in a porous-saturated overlapping stenosed artery. Mathematics and Computers in Simulation, 2017, 134, 1-16.	4.4	35
6	Modeling of unsteady non-Newtonian blood flow through a stenosed artery: with nanoparticles. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	28
7	Computational biomedical simulations of hybrid nanoparticles on unsteady blood hemodynamics in a stenotic artery. Mathematics and Computers in Simulation, 2020, 169, 117-132.	4.4	28
8	Effects of unsteadiness and non-Newtonian rheology on blood flow through a tapered time-variant stenotic artery. AIP Advances, 2015, 5, .	1.3	27
9	Slip effects on unsteady non-Newtonian blood flow through an inclined catheterized overlapping stenotic artery. AIP Advances, 2016, 6, .	1.3	27
10	Effects of nanoparticles (Cu (Copper), Silver (Ag)) and slip on unsteady blood flow through a curved stenosed channel with aneurysm. Thermal Science and Engineering Progress, 2018, 5, 482-491.	2.7	27
11	Unsteady non-Newtonian blood flow through a tapered overlapping stenosed catheterized vessel. Mathematical Biosciences, 2015, 269, 94-103.	1.9	25
12			

#	Article	IF	Citations
19	Numerical computation of nonlinear oscillatory twoâ€immiscible magnetohydrodynamic flow in dual porous media system: FTCS and FEM study. Heat Transfer - Asian Research, 2019, 48, 1245-1263.	2.8	14
20	Biomedical study of effects nanoparticles on unsteady blood (non-Newtonian) flow through a catheterized stenotic vessel. Canadian Journal of Physics, 2019, 97, 487-497.	1.1	12
21	Simulations of unsteady blood flow through curved stenosed channel with effects of entropy generations and magneto-hydrodynamics. International Communications in Heat and Mass Transfer, 2021, 127, 105569.	5.6	12
22	Numerical and Analytical Study of Two-Layered Unsteady Blood Flow through Catheterized Artery. PLoS ONE, 2016, 11, e0161377.	2.5	10
23	Effects of peripheral layer thickness on pulsatile flow of Herschelâ€“Bulkley fluid through a stenotic artery. Canadian Journal of Physics, 2016, 94, 920-928.	1.1	10
24	Pulsatile Flow of Blood in a Vessel Using an Oldroyd-B fluid. International Journal of Nonlinear Sciences and Numerical Simulation, 2015, 16, 197-206.	1.0	7
25	Theoretical Analysis of Peristaltic Viscous Fluid with Inhomogeneous Dust Particles. Arabian Journal for Science and Engineering, 2021, 46, 31-39.	3.0	7
26	Peristaltically Wavy Motion on Dusty Walterâ€™s B Fluid with Inclined Magnetic Field and Heat Transfer. Arabian Journal for Science and Engineering, 2019, 44, 7799-7808.	3.0	5
27	Electro-osmosis modulated peristaltic flow of oldroyd 4-constant fluid in a non-uniform channel. Indian Journal of Physics, 2022, 96, 825-837.	1.8	5
28	A bioconvection model for viscoelastic nanofluid confined by tapered asymmetric channel: implicit finite difference simulations. Journal of Biological Physics, 2021, 47, 499-520.	1.5	3
29	Thermal analysis of unsteady hybrid nanofluid magneto-hemodynamics flow via overlapped curved stenosed channel. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 8754-8766.	2.1	3
30	Entropy generation analysis for peristalsis of magneto Jeffrey materials. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892110412.	2.5	0