Nasir Ali

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9337323/publications.pdf

Version: 2024-02-01

72 papers	1,360 citations	394421 19 h-index	454955 30 g-index
72 all docs	72 docs citations	72 times ranked	576 citing authors

#	Article	IF	Citations
1	Effects of radiative heat flux and heat generation on magnetohydodynamics natural convection flow of <scp>nanofluid</scp> inside a porous triangular cavity with thermal boundary conditions. Numerical Methods for Partial Differential Equations, 2024, 40, .	3.6	18
2	Novel Adaptive Bayesian Regularization Networks for Peristaltic Motion of a Third-Grade Fluid in a Planar Channel. Mathematics, 2022, 10, 358.	2.2	9
3	A note on classical Graetz problem based on Cattaneoâ€“Christov heat flux model. European Physical Journal Plus, 2022, 137, 1.	2.6	5
4	Thermal entrance problem for blood flow inside an axisymmetric tube: The classical Graetz problem extended for Quemadaâ€™s bio-rheological fluid with axial conduction. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 848-859.	1.8	9
5	Mathematical modeling related to bacterial gliding mechanism at low Reynolds number with Ellis Slime. European Physical Journal Plus, 2022, 137, .	2.6	27
6	SOME IMPROVED ESTIMATORS FOR THE MEAN ESTIMATION UNDER STRATIFIED SAMPLING BY USING TRANSFORMATIONS. Journal of Science and Arts, 2022, 22, 265-288.	0.3	1
7	Magnetohydrodynamic mixed convection 3-D simulations for chemically reactive couple stress nanofluid over periodically moving surface with thermal radiation. Journal of Thermal Analysis and Calorimetry, 2021, 146, 435-448.	3.6	8
8	Thermal and rheological effects in a classical Graetz problem using a nonlinear Robertsonâ€“Stiff fluid model. Heat Transfer, 2021, 50, 2321-2338.	3.0	17
9	Robust-regression-type estimators for improving mean estimation of sensitive variables by using auxiliary information. Communications in Statistics - Theory and Methods, 2021, 50, 979-992.	1.0	30
10	Numerical approach for the calendering process using Carreau-Yasuda fluid model. Journal of Plastic Film and Sheeting, 2021, 37, 312-337.	2.2	6
11	Mathematical modelling of classical Graetzâ€“Nusselt problem for axisymmetric tube and flat channel using the Carreau fluid model: a numerical benchmark study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, 76, 589-603.	1.5	12
12	Bifurcation analysis for a flow of viscoelastic fluid due to peristaltic activity. Physics of Fluids, 2021, 33, 053101.	4.0	1
13	Dynamical interaction effects on soft-bodied organisms in a multi-sinusoidal passage. European Physical Journal Plus, 2021, 136, 1.	2.6	36
14	Thermal entry flow problem for Giesekus fluid inside an axis-symmetric tube through isothermal wall condition: a comparative numerical study between exact and approximate solution. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2021, 76, 973-984.	1.5	11
15	Unsteady 3D mixed convection flow of a chemically reactive Oldroydâ€B nanofluid configured by a periodically accelerated surface. Heat Transfer, 2021, 50, 4462-4480.	3.0	5
16	A study on the bifurcation of stagnation points for a peristaltic transport of micropolar fluids with slip condition. Physica Scripta, 2021, 96, 025207.	2.5	6
17	Numerical analysis of the calendering process by using Giesekus fluid model. Journal of Plastic Film and Sheeting, 2020, 36, 167-190.	2.2	8
18	Finite difference simulations for non-isothermal hydromagnetic peristaltic flow of a bio-fluid in a curved channel: Applications to physiological systems. Computer Methods and Programs in Biomedicine, 2020, 195, 105672.	4.7	23

#	Article	IF	Citations
19	Locomotion of an efficient biomechanical sperm through viscoelastic medium. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2271-2284.	2.8	45
20	Swirling Flow of Jeffrey Fluid by a Spiraling Disk. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 821-831.	1.5	10
21	Nonisothermal analysis of a couple stress fluid in blade coating process. Polymer Engineering and Science, 2020, 60, 1129-1137.	3.1	15
22	Bioconvection flow of magnetized Williamson nanoliquid with motile organisms and variable thermal conductivity. Applied Nanoscience (Switzerland), 2020, 10, 3325-3336.	3.1	34
23	Numerical simulations for mixed convective hydromagnetic peristaltic flow in a curved channel with joule heating features. AIP Advances, 2020, 10, 075303.	1.3	19
24	Bifurcation analysis for a two-dimensional peristaltic driven flow of power-law fluid in asymmetric channel. Physics of Fluids, 2020, 32, .	4.0	21
25	Bifurcations of stagnation points in a micropolar fluent media under the influence of an asymmetric peristaltic movement. AIP Advances, 2020, 10, .	1.3	8
26	Bio-inspired propulsion of micro-swimmers within a passive cervix filled with couple stress mucus. Computer Methods and Programs in Biomedicine, 2020, 189, 105313.	4.7	38
27	Periodically moving surface in an Oldroydâ€Β fluid with variable thermal conductivity and Cattaneoâ€Christov heat flux features. Heat Transfer, 2020, 49, 3246-3266.	3.0	12
28	Peristaltic flow of Phan-Thien-Tanner fluid: effects of peripheral layer and electro-osmotic force. Rheologica Acta, 2019, 58, 603-618.	2.4	23
29	Stability and bifurcation analysis of stagnation/equilibrium points for peristaltic transport in a curved channel. Physics of Fluids, 2019, 31, .	4.0	19
30	Mixed convective heat transfer analysis for the peristaltic transport of viscoplastic fluid: Perturbation and numerical study. AIP Advances, 2019, 9, .	1.3	13
31	Rheological and magnetic effects on a fluid flow in a curved channel with different peristaltic wave profiles. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	39
32	A mathematical framework for peristaltic flow analysis of non-Newtonian Sisko fluid in an undulating porous curved channel with heat and mass transfer effects. Computer Methods and Programs in Biomedicine, 2019, 182, 105040.	4.7	63
33	Numerical study of Hall effects on the peristaltically induced motion of a viscous fluid through a non-uniform regime: An application to the medical science. European Physical Journal Plus, 2019, 134, 1.	2.6	11
34	A mathematical analysis for the blade coating process of Oldroyd 4-constant fluid. Journal of Polymer Engineering, 2019, 39, 852-860.	1.4	19
35	Bifurcation and stability analysis of critical/stagnation points for peristaltic transport of a power-law fluid in a tube. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	10
36	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

#	Article	IF	Citations
37	Finite element analysis of bi-viscosity fluid enclosed in a triangular cavity under thermal and magnetic effects. European Physical Journal Plus, 2019, 134, 1.	2.6	33
38	Heat transfer in stagnation-point flow of a Jeffrey fluid past a lubricated surface. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	28
39	Bifurcation Analysis for Peristaltic Transport of a Power-Law Fluid. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 213-225.	1.5	12
40	Heat Transfer Characteristics in Oscillatory Hydromagnetic Channel Flow of Maxwell Fluid Using Cattaneoâ€“Christov Model. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 377-385.	1.2	11
41	Numerical computations on flow and heat transfer of Casson fluid due to oscillatory moving surface. Thermal Science, 2019, 23, 3365-3377.	1.1	10
42	Steady flow of a power law fluid through a tapered non-symmetric stenotic tube. Applied Mathematics and Nonlinear Sciences, 2019, 4, 255-266.	1.6	22
43	Non-isothermal analysis of calendering using couple stress fluid. Journal of Plastic Film and Sheeting, 2018, 34, 358-381.	2.2	13
44	Theoretical analysis of roll-over-web coating of a micropolar fluid under lubrication approximation theory. Journal of Plastic Film and Sheeting, 2018, 34, 418-438.	2.2	14
45	Calendering of non-isothermal Rabinowitsch fluid. Journal of Polymer Engineering, 2018, 38, 83-92.	1.4	13
46	A mathematical model of the calendered exiting thickness of micropolar sheet. Polymer Engineering and Science, 2018, 58, 327-334.	3.1	13
47	A numerical analysis of calendering of Oldroyd 4-constant fluid. Journal of Polymer Engineering, 2018, 38, 1007-1016.	1.4	13
48	Soret and dufour effects on hydromagnetic flow of Eyring-Powell fluid over oscillatory stretching surface with heat generation/absorption and chemical reaction. Thermal Science, 2018, 22, 533-543.	1.1	10
49	Heat transfer analysis in the time-dependent axisymmetric stagnation point flow over a lubricated surface. Thermal Science, 2018, 22, 2483-2492.	1.1	9
50	An exact solution for the calendering analysis of a third-order fluid. Journal of Plastic Film and Sheeting, 2017, 33, 124-141.	2.2	17
51	Peristaltic Flow of Rabinowitsch Fluid in a Curved Channel: Mathematical Analysis Revisited. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 245-251.	1.5	7
52	Numerical and Analytical Study of Two-Layered Unsteady Blood Flow through Catheterized Artery. PLoS ONE, 2016, 11, e0161377.	2.5	10
53	Peristaltic Tube Flow of a Giesekus Fluid. Nihon Reoroji Gakkaishi, 2016, 44, 99-108.	1.0	3
54	UNSTEADY TWO-LAYERED BLOOD FLOW THROUGH A -SHAPED STENOSED ARTERY USING THE GENERALIZED OLDROYD-B FLUID MODEL. ANZIAM Journal, 2016, 58, 96-118.	0.2	15

#	Article	IF	Citations
55	Slip effects on unsteady non-Newtonian blood flow through an inclined catheterized overlapping stenotic artery. AIP Advances, 2016, 6, .	1.3	27
56	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
57	Flow and heat transfer of hydromagnetic Oldroyd-B fluid in a channel with stretching walls. Nonlinear Engineering, 2016, .	2.7	3
58	Mathematical Model for Isothermal Wire-Coating From a Bath of Giesekus Viscoelastic Fluid. Chemical Engineering Communications, 2016, 203, 1336-1348.	2.6	25
59	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
60	Nonorthogonal Stagnation-point Flow of a Second-grade Fluid Past a Lubricated Surface. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 273-280.	1.5	9
61	UNSTEADY MAGNETOHYDRODYNAMIC BLOOD FLOW IN A POROUS-SATURATED OVERLAPPING STENOTIC ARTERY â€" NUMERICAL MODELING. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650049.	0.7	20
62	Peristaltic Transport of Visco-Elasto-Plastic Fluids in a Planar Channel. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 593-603.	1.5	0
63	Wireâ€coating by withdrawal from a bath of Phanâ€Thienâ€Tanner fluid. Canadian Journal of Chemical Engineering, 2015, 93, 2070-2076.	1.7	7
64	Hydromagnetic Flow and Heat Transfer over a Porous Oscillating Stretching Surface in a Viscoelastic Fluid with Porous Medium. PLoS ONE, 2015, 10, e0144299.	2.5	24
65	Hydromagnetic Flow and Heat Transfer of a Jeffrey Fluid over an Oscillatory Stretching Surface. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 567-576.	1.5	31
66	Unsteady Flow of Third Grade Fluid over an Oscillatory Stretching Sheet with Thermal Radiation and Heat Source/Sink. Nonlinear Engineering, 2015, 4, .	2.7	13
67	An Analysis of Peristaltic Flow of Finitely Extendable Nonlinear Elastic- Peterlin Fluid in Two-Dimensional Planar Channel and Axisymmetric Tube. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2014, 69, 462-472.	1.5	5
68	FLOW OF AN EYRING-POWELL NON-NEWTONIAN FLUID OVER A STRETCHING SHEET. Chemical Engineering Communications, 2013, 200, 327-336.	2.6	129
69	Flow of a Giesekus Fluid in a Planar Channel due to Peristalsis. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 515-523.	1.5	13
70	Peristaltic motion of a magnetohydrodynamic generalized secondâ€order fluid in an asymmetric channel. Numerical Methods for Partial Differential Equations, 2011, 27, 415-435.	3.6	14
71	Long Wavelength Flow Analysis in a Curved Channel. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 191-196.	1.5	92
72	through a complex wavy convergent channel with electro-magneto-hydrodynamic phenomenon. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 0, , 095440892210765.	2.5	5