

Nasir Ali

List of Publications by Year in descending order

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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	FLOW OF AN EYRING-POWELL NON-NEWTONIAN FLUID OVER A STRETCHING SHEET. Chemical Engineering Communications, 2013, 200, 327-336.	2.6	129
2	Long Wavelength Flow Analysis in a Curved Channel. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2010, 65, 191-196.	1.5	92
3	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
4	Locomotion of an efficient biomechanical sperm through viscoelastic medium. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2271-2284.	2.8	45
5	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
6	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
7	Dynamical interaction effects on soft-bodied organisms in a multi-sinusoidal passage. European Physical Journal Plus, 2021, 136, 1.	2.6	36
8	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
9	Bioconvection flow of magnetized Williamson nanoliquid with motile organisms and variable thermal conductivity. Applied Nanoscience (Switzerland), 2020, 10, 3325-3336.	3.1	34
10	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
11	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
12	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
13	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
14	Slip effects on unsteady non-Newtonian blood flow through an inclined catheterized overlapping stenotic artery. AIP Advances, 2016, 6, .	1.3	27
15	Mathematical modeling related to bacterial gliding mechanism at low Reynolds number with Ellis Slime. European Physical Journal Plus, 2022, 137, .	2.6	27
16	Mathematical Model for Isothermal Wire-Coating From a Bath of Giesekus Viscoelastic Fluid. Chemical Engineering Communications, 2016, 203, 1336-1348.	2.6	25
17	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
18	Peristaltic flow of Phan-Thien-Tanner fluid: effects of peripheral layer and electro-osmotic force. Rheologica Acta, 2019, 58, 603-618.	2.4	23

#	ARTICLE	IF	CITATIONS
19	Finite difference simulations for non-isothermal hydromagnetic peristaltic flow of a bio-fluid in a curved channel: Applications to physiological systems. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 195, 105672.	4.7	23
20	Steady flow of a power law fluid through a tapered non-symmetric stenotic tube. <i>Applied Mathematics and Nonlinear Sciences</i> , 2019, 4, 255-266.	1.6	22
21	Bifurcation analysis for a two-dimensional peristaltic driven flow of power-law fluid in asymmetric channel. <i>Physics of Fluids</i> , 2020, 32, .	4.0	21
22	UNSTEADY MAGNETOHYDRODYNAMIC BLOOD FLOW IN A POROUS-SATURATED OVERLAPPING STENOTIC ARTERY " NUMERICAL MODELING. <i>Journal of Mechanics in Medicine and Biology</i> , 2016, 16, 1650049.	0.7	20
23	Stability and bifurcation analysis of stagnation/equilibrium points for peristaltic transport in a curved channel. <i>Physics of Fluids</i> , 2019, 31, .	4.0	19
24	A mathematical analysis for the blade coating process of Oldroyd 4-constant fluid. <i>Journal of Polymer Engineering</i> , 2019, 39, 852-860.	1.4	19
25	Numerical simulations for mixed convective hydromagnetic peristaltic flow in a curved channel with joule heating features. <i>AIP Advances</i> , 2020, 10, 075303.	1.3	19
26	Effects of radiative heat flux and heat generation on magnetohydrodynamics natural convection flow of <scp>nanofluid</scp> inside a porous triangular cavity with thermal boundary conditions. <i>Numerical Methods for Partial Differential Equations</i> , 2024, 40, .	3.6	18
27	An exact solution for the calendering analysis of a third-order fluid. <i>Journal of Plastic Film and Sheeting</i> , 2017, 33, 124-141.	2.2	17
28	Thermal and rheological effects in a classical Graetz problem using a nonlinear Robertson"Stiff fluid model. <i>Heat Transfer</i> , 2021, 50, 2321-2338.	3.0	17
29	UNSTEADY TWO-LAYERED BLOOD FLOW THROUGH A -SHAPED STENOSED ARTERY USING THE GENERALIZED OLDROYD-B FLUID MODEL. <i>ANZIAM Journal</i> , 2016, 58, 96-118.	0.2	15
30	Nonisothermal analysis of a couple stress fluid in blade coating process. <i>Polymer Engineering and Science</i> , 2020, 60, 1129-1137.	3.1	15
31	Peristaltic motion of a magnetohydrodynamic generalized second"order fluid in an asymmetric channel. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 415-435.	3.6	14
32	Theoretical analysis of roll-over-web coating of a micropolar fluid under lubrication approximation theory. <i>Journal of Plastic Film and Sheeting</i> , 2018, 34, 418-438.	2.2	14
33	Numerical computation of nonlinear oscillatory two"immiscible magnetohydrodynamic flow in dual porous media system: FTCS and FEM study. <i>Heat Transfer - Asian Research</i> , 2019, 48, 1245-1263.	2.8	14
34	Flow of a Giesekus Fluid in a Planar Channel due to Peristalsis. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013, 68, 515-523.	1.5	13
35	Unsteady Flow of Third Grade Fluid over an Oscillatory Stretching Sheet with Thermal Radiation and Heat Source/Sink. <i>Nonlinear Engineering</i> , 2015, 4, .	2.7	13
36	Non-isothermal analysis of calendering using couple stress fluid. <i>Journal of Plastic Film and Sheeting</i> , 2018, 34, 358-381.	2.2	13

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37	Calendering of non-isothermal Rabinowitsch fluid. Journal of Polymer Engineering, 2018, 38, 83-92.	1.4	13
38	A mathematical model of the calendered exiting thickness of micropolar sheet. Polymer Engineering and Science, 2018, 58, 327-334.	3.1	13
39	A numerical analysis of calendering of Oldroyd 4-constant fluid. Journal of Polymer Engineering, 2018, 38, 1007-1016.	1.4	13
40	Mixed convective heat transfer analysis for the peristaltic transport of viscoplastic fluid: Perturbation and numerical study. AIP Advances, 2019, 9, .	1.3	13
41	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
42	Periodically moving surface in an Oldroyd-B fluid with variable thermal conductivity and Cattaneo-Christov heat flux features. Heat Transfer, 2020, 49, 3246-3266.	3.0	12
43	Mathematical modelling of classical Graetz-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
44	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
45	Heat Transfer Characteristics in Oscillatory Hydromagnetic Channel Flow of Maxwell Fluid Using Cattaneo-Christov Model. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2019, 89, 377-385.	1.2	11
46	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
47	Numerical and Analytical Study of Two-Layered Unsteady Blood Flow through Catheterized Artery. PLoS ONE, 2016, 11, e0161377.	2.5	10
48	Effects of peripheral layer thickness on pulsatile flow of Herschel-Bulkley fluid through a stenotic artery. Canadian Journal of Physics, 2016, 94, 920-928.	1.1	10
49	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
50	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
51	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
52	Numerical computations on flow and heat transfer of Casson fluid due to oscillatory moving surface. Thermal Science, 2019, 23, 3365-3377.	1.1	10
53	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
54	Heat transfer analysis in the time-dependent axisymmetric stagnation point flow over a lubricated surface. Thermal Science, 2018, 22, 2483-2492.	1.1	9

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55	Novel Adaptive Bayesian Regularization Networks for Peristaltic Motion of a Third-Grade Fluid in a Planar Channel. <i>Mathematics</i> , 2022, 10, 358.	2.2	9
56	Thermal entrance problem for blood flow inside an axisymmetric tube: The classical Graetz problem extended for Quemada's bio-rheological fluid with axial conduction. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2022, 236, 848-859.	1.8	9
57	Numerical analysis of the calendering process by using Giesekus fluid model. <i>Journal of Plastic Film and Sheeting</i> , 2020, 36, 167-190.	2.2	8
58	Bifurcations of stagnation points in a micropolar fluent media under the influence of an asymmetric peristaltic movement. <i>AIP Advances</i> , 2020, 10, .	1.3	8
59	Magnetohydrodynamic mixed convection 3-D simulations for chemically reactive couple stress nanofluid over periodically moving surface with thermal radiation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 146, 435-448.	3.6	8
60	Wire coating by withdrawal from a bath of Phan-Thien-Tanner fluid. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 2070-2076.	1.7	7
61	Peristaltic Flow of Rabinowitsch Fluid in a Curved Channel: Mathematical Analysis Revisited. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 245-251.	1.5	7
62	Numerical approach for the calendering process using Carreau-Yasuda fluid model. <i>Journal of Plastic Film and Sheeting</i> , 2021, 37, 312-337.	2.2	6
63	A study on the bifurcation of stagnation points for a peristaltic transport of micropolar fluids with slip condition. <i>Physica Scripta</i> , 2021, 96, 025207.	2.5	6
64	An Analysis of Peristaltic Flow of Finitely Extendable Nonlinear Elastic- Peterlin Fluid in Two-Dimensional Planar Channel and Axisymmetric Tube. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014, 69, 462-472.	1.5	5
65	Unsteady 3D mixed convection flow of a chemically reactive Oldroyd-B nanofluid configured by a periodically accelerated surface. <i>Heat Transfer</i> , 2021, 50, 4462-4480.	3.0	5
66	through a complex wavy convergent channel with electro-magneto-hydrodynamic phenomenon. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 0, . 095440892210765.	2.5	5
67	A note on classical Graetz problem based on Cattaneo-Christov heat flux model. <i>European Physical Journal Plus</i> , 2022, 137, 1.	2.6	5
68	Peristaltic Tube Flow of a Giesekus Fluid. <i>Nihon Reoroji Gakkaishi</i> , 2016, 44, 99-108.	1.0	3
69	Flow and heat transfer of hydromagnetic Oldroyd-B fluid in a channel with stretching walls. <i>Nonlinear Engineering</i> , 2016, .	2.7	3
70	Bifurcation analysis for a flow of viscoelastic fluid due to peristaltic activity. <i>Physics of Fluids</i> , 2021, 33, 053101.	4.0	1
71	SOME IMPROVED ESTIMATORS FOR THE MEAN ESTIMATION UNDER STRATIFIED SAMPLING BY USING TRANSFORMATIONS. <i>Journal of Science and Arts</i> , 2022, 22, 265-288.	0.3	1
72	Peristaltic Transport of Visco-Elasto-Plastic Fluids in a Planar Channel. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015, 70, 593-603.	1.5	0