Rajashekhar Choudhari

List of Publications by Year
in descending order

		393982	454577
54 papers	1,127 citations	19 h-index	30 g-index
55 all docs	55 docs citations	55 times ranked	399 citing authors

#	Article	IF	Citations
1	Similarity solution analysis of dynamic and thermal boundary layers: further formulation along a vertical flat plate. Physica Scripta, 2021, 96, 085206.	1.2	70
2	Mass and heat transport impact on the peristaltic flow of a Ree–Eyring liquid through variable properties for hemodynamic flow. Heat Transfer, 2021, 50, 5106-5122.	1.7	64
3	Mixed convective nanofluid flow over a non linearly stretched Riga plate. Case Studies in Thermal Engineering, 2021, 24, 100828.	2.8	63
4	Heat and mass transfer analysis of MHD peristaltic flow through a complaint porous channel with variable thermal conductivity. Physica Scripta, 2020, 95, 045219.	1.2	56
5	Implementation of the One-Step One-Hybrid Block Method on the Nonlinear Equation of a Circular Sector Oscillator. Computational Mathematics and Modeling, 2020, 31, 116-132.	0.2	55
6	Peristaltic mechanism of a Rabinowitsch fluid in an inclined channel with complaint wall and variable liquid properties. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	47
7	Peristaltic transport of two-layered blood flow using Herschel–Bulkley Model. Cogent Engineering, 2018, 5, 1495592.	1.1	45
8	Influence of transport properties on the peristaltic MHD Jeffrey fluid flow through a porous asymmetric tapered channel. Results in Physics, 2020, 18, 103295.	2.0	40
9	Impact of heat and mass transfer on the peristaltic mechanism of Jeffery fluid in a non-uniform porous channel with variable viscosity and thermal conductivity. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1213-1228.	2.0	37
10	Impact of Variable Transport Properties and Slip Effects on MHD Jeffrey Fluid Flow Through Channel. Arabian Journal for Science and Engineering, 2020, 45, 417-428.	1.7	37
11	The hemodynamics of variable liquid properties on the MHD peristaltic mechanism of Jeffrey fluid with heat and mass transfer. AEJ - Alexandria Engineering Journal, 2020, 59, 693-706.	3.4	35
12	Analysis of temperature dependent properties of a peristaltic MHD flow in a non-uniform channel: A Casson fluid model. Ain Shams Engineering Journal, 2021, 12, 2181-2191.	3.5	35
13	Combined effects of homogeneous and heterogeneous reactions on peristalsis of Ree–Eyring liquid: Application in hemodynamic flow. Heat Transfer, 2021, 50, 2592-2609.	1.7	33
14	MHD peristaltic flow of nanofluid in a vertical channel with multiple slip features: an application to chyme movement. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1047-1067.	1.4	33
15	Combined effects of chemical reaction and variable thermal conductivity on MHD peristaltic flow of Phan-Thien-Tanner liquid through inclined channel. Case Studies in Thermal Engineering, 2022, 36, 102214.	2.8	32
16	Channel flow of MHD bingham fluid due to peristalsis with multiple chemical reactions: an application to blood flow through narrow arteries. SN Applied Sciences, 2021, 3, 1.	1.5	29
17	Micro-polar fluid flow over a unique form of vertical stretching sheet: Special emphasis to temperature-dependent properties. Case Studies in Thermal Engineering, 2022, 34, 102037.	2.8	26
18	Effect of variable liquid properties on peristaltic flow of a Rabinowitsch fluid in an inclined convective porous channel. European Physical Journal Plus, 2019, 134, 1.	1.2	24

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19	Slip flow of MHD Casson fluid in an inclined channel with variable transport properties. Communications in Theoretical Physics, 2020, 72, 095004.	1.1	24
20	Peristaltic activity in blood flow of Casson nanoliquid with irreversibility aspects in vertical non-uniform channel. Journal of the Indian Chemical Society, 2022, 99, 100617.	1.3	24
21	Peristaltic flow of non-Newtonian fluid through an inclined complaint nonlinear tube: application to chyme transport in the gastrointestinal tract. European Physical Journal Plus, 2020, 135, 1.	1.2	22
22	Unsteady flow of Rabinowitsch fluid peristaltic transport in a non-uniform channel with temperature-dependent properties. AEJ - Alexandria Engineering Journal, 2020, 59, 4745-4758.	3.4	22
23	Role of slip and heat transfer on peristaltic transport of Herschel-Bulkley fluid through an elastic tube. Multidiscipline Modeling in Materials and Structures, 2018, 14, 940-959.	0.6	21
24	Rheological Properties and Peristalsis of Rabinowitsch Fluid Through Compliant Porous Walls in an Inclined Channel. Journal of Nanofluids, 2018, 8, 970-979.	1.4	21
25	Convection Heat Transfer of MgO-Ag /Water Magneto-Hybrid Nanoliquid Flow into a Special Porous Enclosure. Algerian Journal of Renewable Energy and Sustainable Development, 2020, 2, 84-95.	0.5	20
26	Analysis of entropy generation and biomechanical investigation of MHD Jeffery fluid through a vertical non-uniform channel. Case Studies in Thermal Engineering, 2021, 28, 101538.	2.8	19
27	Effect of variable liquid properties on peristaltic transport of Rabinowitsch liquid in convectively heated complaint porous channel. Journal of Central South University, 2019, 26, 1116-1132.	1.2	15
28	Effects Wall Properties on Peristaltic Transport of Rabinowitsch Fluid through an Inclined Non-Uniform Slippery Tube. Defect and Diffusion Forum, 0, 392, 138-157.	0.4	15
29	PERISTALTIC MOTION OF NON-NEWTONIAN FLUID WITH VARIABLE LIQUID PROPERTIES IN A CONVECTIVELY HEATED NONUNIFORM TUBE: RABINOWITSCH FLUID MODEL. Journal of Enhanced Heat Transfer, 2019, 26, 277-294.	0.5	15
30	Impact of Electroosmosis and Wall Properties in Modelling Peristaltic Mechanism of a Jeffrey Liquid through a Microchannel with Variable Fluid Properties. Inventions, 2021, 6, 73.	1.3	13
31	PERISTALTIC MECHANISM OF BINGHAM LIQUID IN A CONVECTIVELY HEATED POROUS TUBE IN THE PRESENCE OF VARIABLE LIQUID PROPERTIES. Special Topics and Reviews in Porous Media, 2019, 10, 187-201.	0.6	11
32	Nonlinear thermal radiation and activation energy significances in slip flow of bioconvection of Oldroyd-B nanofluid with Cattaneo-Christov theories. Case Studies in Thermal Engineering, 2021, 26, 101069.	2.8	10
33	Rheological effects on peristaltic transport of Bingham fluid through an elastic tube with variable fluid properties and porous walls. Heat Transfer, 2020, 49, 3391-3408.	1.7	9
34	Analysis of third‑grade liquid under the influence of wall slip and variable fluid properties in an inclined peristaltic channel. Heat Transfer, 2022, 51, 6528-6547.	1.7	9
35	Influence of convective conditions on the peristaltic mechanism of power-law fluid through a slippery elastic porous tube with different waveforms. Multidiscipline Modeling in Materials and Structures, 2019, 16, 340-358.	0.6	8
36	Heat transfer and electroosmosis driven MHD peristaltic pumping in a microchannel with multiple slips and fluid properties. Heat Transfer, 2022, 51, 6507-6527.	1.7	8

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37	Slip Effects on a Ree-Eyring Liquid Peristaltic Flow Towards an Inclined Channel and Variable Liquid Properties. Journal of Nanofluids, 2021, 10, 246-258.	1.4	7
38	Impact of surface temperature and convective boundary conditions on a Nanofluid flow over a radially stretched Riga plate. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2022, 236, 942-952.	1.4	7
39	Heat Transfer Analysis on Peristaltic Transport of a Jeffery Fluid in an Inclined Elastic Tube with Porous Walls. International Journal of Thermofluid Science and Technology, 2020, 7, .	0.3	6
40	Electro-kinetically modulated peristaltic mechanism of Jeffrey liquid through a micro-channel with variable viscosity. Thermal Science, 2021, 25, 271-277.	0.5	6
41	Unsteady Magnetohydrodynamic Convective Flow of a Nanoliquid via a Radially Stretched Riga Area via Optimal Homotopy Analysis Method. Journal of Nanofluids, 2022, 11, 84-98.	1.4	6
42	Effects of Heat Transfer on Peristaltic Transport of a Bingham Fluid through an Inclined Tube with Different Wave Forms. Defect and Diffusion Forum, 0, 392, 158-177.	0.4	5
43	Magnetohydrodynamic peristaltic flow of Bingham fluid in a channel: An application to blood flow. Journal of Mechanical Engineering and Sciences, 2021, 15, 8082-8094.	0.3	5
44	PERISTALTIC FLOW OF CASSON LIQUID IN AN INCLINED POROUS TUBE WITH CONVECTIVE BOUNDARY CONDITIONS AND VARIABLE LIQUID PROPERTIES. Frontiers in Heat and Mass Transfer, 0, 11, .	0.1	5
45	Examination of Chemical Reaction on Three Dimensional Mixed Convective Magnetohydrodynamic Jeffrey Nanofluid Over a Stretching Sheet. Journal of Nanofluids, 2022, 11, 113-124.	1.4	5
46	Peristaltic Flow of a Jeffery Fluid with Heat Transfer in an Inclined Porous Tube under the Influence of Slip and Variable Viscosity. Defect and Diffusion Forum, 2019, 393, 16-30.	0.4	4
47	HEAT TRANSFER AND SLIP CONSEQUENCES ON PERISTALTIC TRANSPORT OF A CASSON FLUID IN AN AXISYMMETRIC POROUS TUBE. Journal of Porous Media, 2021, 24, 77-94.	1.0	4
48	Electro-osmosis modulated peristaltic flow of non-Newtonian liquid via a microchannel and variable liquid properties. Indian Journal of Physics, 2022, 96, 3853-3866.	0.9	4
49	MHD Carreau nanoliquid flow over a nonlinear stretching surface. Heat Transfer, 2022, 51, 5262-5287.	1.7	4
50	Simultaneous Effects of Heat Transfer and Variable Viscosity on Peristaltic Transport of Casson Fluid Flow in an Inclined Porous Tube. International Journal of Applied Mechanics and Engineering, 2019, 24, 309-328.	0.3	3
51	Peristaltic flow of a Jeffery fluid over a porous conduit in the presence of variable liquid properties and convective boundary conditions. International Journal of Thermofluid Science and Technology, 2019, 6, .	0.3	3
52	Peristaltic Pumping of a Casson Fluid in a Convectively Heated Porous Channel with Variable Fluid Properties. Journal of Nanofluids, 2019, 8, 1446-1457.	1.4	3
53	IMPACT OF VARIABLE LIQUID PROPERTIES ON PERISTALTIC MECHANISM OF CONVECTIVELY HEATED JEFFREY FLUID IN A SLIPPERY ELASTIC TUBE. Frontiers in Heat and Mass Transfer, 0, 12, .	0.1	2
54	Electroosmotic Peristaltic Pumping of Jeffrey Liquid with Variable Characteristics: An Application to Hemodynamic. International Journal of Applied and Computational Mathematics, 2022, 8, .	0.9	1