Dharmendra Tripathi

List of Publications by Year
in descending order

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190 papers	6,402 citations	57631 44 h-index	118652 62 g-index
194 all docs	194 docs citations	194 times ranked	1598 citing authors

#	Article	IF	Citations
1	A study on peristaltic flow of nanofluids: Application in drug delivery systems. International Journal of Heat and Mass Transfer, 2014, 70, 61-70.	2.5	249
2	Peristaltic flow of viscoelastic fluid with fractional Maxwell model through a channel. Applied Mathematics and Computation, 2010, 215, 3645-3654.	1.4	184
3	3D free convective MHD flow of nanofluid over permeable linear stretching sheet with thermal radiation. Powder Technology, 2017, 315, 205-215.	2.1	147
4	Electroosmosis-modulated peristaltic transport in microfluidic channels. Physics of Fluids, 2016, 28, .	1.6	125
5	Electro-magneto-hydrodynamic peristaltic pumping of couple stress biofluids through a complex wavy micro-channel. Journal of Molecular Liquids, 2017, 236, 358-367.	2.3	96
6	A mathematical model for the peristaltic flow of chyme movement in small intestine. Mathematical Biosciences, 2011, 233, 90-97.	0.9	89
7	A numerical study of magnetohydrodynamic transport of nanofluids over a vertical stretching sheet with exponential temperature-dependent viscosity and buoyancy effects. Chemical Physics Letters, 2016, 661, 20-30.	1.2	88
8	Peristaltic Pumping of Nanofluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow. Symmetry, 2019, 11, 868.	1.1	85
9	Thermal, microrotation, electromagnetic field and nanoparticle shape effects on Cu-CuO/blood flow in microvascular vessels. Microvascular Research, 2020, 132, 104065.	1.1	83
10	Electrothermal transport of nanofluids via peristaltic pumping in a finite micro-channel: Effects of Joule heating and Helmholtz-Smoluchowski velocity. International Journal of Heat and Mass Transfer, 2017, 111, 138-149.	2.5	82
11	Peristaltic transport of fractional Maxwell fluids in uniform tubes: Applications in endoscopy. Computers and Mathematics With Applications, 2011, 62, 1116-1126.	1.4	79
12	Electroosmotic flow of Williamson ionic nanoliquids in a tapered microfluidic channel in presence of thermal radiation and peristalsis. Journal of Molecular Liquids, 2018, 256, 352-371.	2.3	77
13	Thermal radiation effects on electroosmosis modulated peristaltic transport of ionic nanoliquids in biomicrofluidics channel. Journal of Molecular Liquids, 2018, 249, 843-855.	2.3	76
14	Joule heating and buoyancy effects in electro-osmotic peristaltic transport of aqueous nanofluids through a microchannel with complex wave propagation. Advanced Powder Technology, 2018, 29, 639-653.	2.0	73
15	3D Bioconvective multiple slip flow of chemically reactive Casson nanofluid with gyrotactic microâ€organisms. Heat Transfer - Asian Research, 2020, 49, 135-153.	2.8	73
16	Study of transient peristaltic heat flow through a finite porous channel. Mathematical and Computer Modelling, 2013, 57, 1270-1283.	2.0	71
17	MHD dissipative flow and heat transfer of Casson fluids due to metachronal wave propulsion of beating cilia with thermal and velocity slip effects under an oblique magnetic field. Acta Astronautica, 2016, 128, 1-12.	1.7	68
18	Transverse magnetic field driven modification in unsteady peristaltic transport with electrical double layer effects. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 32-39.	2.3	67

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19	Electro-osmotic flow of couple stress fluids in a micro-channel propagated by peristalsis. European Physical Journal Plus, 2017, 132, 1.	1.2	67
20	Peristaltic pumping of magnetic nanofluids with thermal radiation and temperature-dependent viscosity effects: Modelling a solar magneto-biomimetic nanopump. Renewable Energy, 2019, 133, 1308-1326.	4.3	67
21	Entropy generation and Joule heating of two layered electroosmotic flow in the peristaltically induced micro-channel. International Journal of Mechanical Sciences, 2019, 153-154, 430-444.	3.6	66
22	MHD 3D free convective flow of nanofluid over an exponentially stretching sheet with chemical reaction. Advanced Powder Technology, 2017, 28, 2159-2166.	2.0	62
23	A mathematical model for swallowing of food bolus through the oesophagus under the influence of heat transfer. International Journal of Thermal Sciences, 2012, 51, 91-101.	2.6	61
24	Analysis of entropy generation in biomimetic electroosmotic nanofluid pumping through a curved channel with joule dissipation. Thermal Science and Engineering Progress, 2020, 15, 100424.	1.3	61
25	A Numerical Study of Oscillating Peristaltic Flow of Generalized Maxwell Viscoelastic Fluids Through a Porous Medium. Transport in Porous Media, 2012, 95, 337-348.	1.2	60
26	Study of microvascular non-Newtonian blood flow modulated by electroosmosis. Microvascular Research, 2018, 117, 28-36.	1.1	60
27	Analysis of double diffusive convection in electroosmosis regulated peristaltic transport of nanofluids. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122148.	1.2	60
28	Electroosmotic flow of pseudoplastic nanoliquids via peristaltic pumping. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	59
29	Peristaltic transport of a viscoelastic fluid in a channel. Acta Astronautica, 2011, 68, 1379-1385.	1.7	58
30	Peristaltic propulsion of generalized Burgersâ€™ fluids through a non-uniform porous medium: A study of chyme dynamics through the diseased intestine. Mathematical Biosciences, 2014, 248, 67-77.	0.9	56
31	Electroosmotic flow of biorheological micropolar fluids through microfluidic channels. Korea Australia Rheology Journal, 2018, 30, 89-98.	0.7	56
32	Heat transfer analysis on electroosmotic flow via peristaltic pumping in non-Darcy porous medium. Thermal Science and Engineering Progress, 2019, 11, 254-262.	1.3	55
33	Blood-based graphene oxide nanofluid flow through capillary in the presence of electromagnetic fields: A Sutterby fluid model. Microvascular Research, 2020, 132, 104062.	1.1	55
34	Numerical simulation of heat transfer in blood flow altered by electroosmosis through tapered micro-vessels. Microvascular Research, 2018, 118, 162-172.	1.1	54
35	Thermally developed peristaltic propulsion of magnetic solid particles in biorheological fluids. Indian Journal of Physics, 2018, 92, 423-430.	0.9	54
36	Nanofluids flow driven by peristaltic pumping in occurrence of magnetohydrodynamics and thermal radiation. Materials Science in Semiconductor Processing, 2019, 100, 290-300.	1.9	54

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37	Electroosmosis modulated transient blood flow in curved microvessels: Study of a mathematical model. Microvascular Research, 2019, 123, 25-34.	1.1	54
38	Electro-kinetically driven peristaltic transport of viscoelastic physiological fluids through a finite length capillary: Mathematical modeling. Mathematical Biosciences, 2017, 283, 155-168.	0.9	52
39	Comparative study of hybrid nanofluids in microchannel slip flow induced by electroosmosis and peristalsis. Applied Nanoscience (Switzerland), 2020, 10, 1693-1706.	1.6	52
40	UNSTEADY MODEL OF TRANSPORTATION OF JEFFREY-FLUID BY PERISTALSIS. International Journal of Biomathematics, 2010, 03, 473-491.	1.5	51
41	Numerical simulation of double diffusive convection and electroosmosis during peristaltic transport of a micropolar nanofluid on an asymmetric microchannel. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2499-2514.	2.0	51
42	Electroosmosis modulated peristaltic biorheological flow through an asymmetric microchannel: mathematical model. Meccanica, 2018, 53, 2079-2090.	1.2	50
43	DTM Simulation of Peristaltic Viscoelastic Biofluid Flow in Asymmetric Porous Media: A Digestive Transport Model. Journal of Bionic Engineering, 2015, 12, 643-655.	2.7	49
44	Peristaltic Hemodynamic Flow of Couple-Stress Fluids Through a Porous Medium with Slip Effect. Transport in Porous Media, 2012, 92, 559-572.	1.2	48
45	Mathematical modelling of heat transfer effects on swallowing dynamics ofÂviscoelastic food bolus through the human oesophagus. International Journal of Thermal Sciences, 2013, 70, 41-53.	2.6	48
46	Joule heating and zeta potential effects on peristaltic blood flow through porous micro vessels altered by electrohydrodynamic. Microvascular Research, 2018, 117, 74-89.	1.1	48
47	Cilia-assisted hydromagnetic pumping of biorheological couple stress fluids. Propulsion and Power Research, 2019, 8, 221-233.	2.0	47
48	Numerical study of electroosmosis-induced alterations in peristaltic pumping of couple stress hybrid nanofluids through microchannel. Indian Journal of Physics, 2021, 95, 2411-2421.	0.9	47
49	A study of unsteady physiological magneto-fluid flow and heat transfer through a finite length channel by peristaltic pumping. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 631-644.	1.0	46
50	Homotopy semi-numerical simulation of peristaltic flow of generalised Oldroyd-B fluids with slip effects. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 433-442.	0.9	46
51	Three dimensional MHD flow of nanofluid over an exponential porous stretching sheet with convective boundary conditions. Thermal Science and Engineering Progress, 2017, 3, 133-140.	1.3	46
52	A Theoretical Investigation on the Heat Transfer Ability of Water-Based Hybrid (Agâ€“Au) Nanofluids and Ag Nanofluids Flow Driven by Electroosmotic Pumping Through a Microchannel. Arabian Journal for Science and Engineering, 2021, 46, 2911-2927.	1.7	46
53	Analysis of electroosmotic flow of silver-water nanofluid regulated by peristalsis using two different approaches for nanofluid. Journal of Computational Science, 2022, 62, 101696.	1.5	46
54	Thermal slip and radiative heat transfer effects on electroâ€osmotic magnetonanoliquid peristaltic propulsion through a microchannel. Heat Transfer - Asian Research, 2019, 48, 2882-2908.	2.8	45

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55	Computer modelling of electro-osmotically augmented three-layered microvascular peristaltic blood flow. Microvascular Research, 2017, 114, 65-83.	1.1	44
56	Electroosmotically modulated peristaltic propulsion of TiO2/10W40 nanofluid in curved microchannel. International Communications in Heat and Mass Transfer, 2022, 136, 106208.	2.9	44
57	Peristaltic transport of a generalized Burgersâ€™ fluid: Application to the movement of chyme in small intestine. Acta Astronautica, 2011, 69, 30-38.	1.7	43
58	Peristaltic flow of MHD Jeffrey fluid through finite length cylindrical tube. Applied Mathematics and Mechanics (English Edition), 2011, 32, 1231-1244.	1.9	42
59	Magnetohydrodynamics Nanofluid Flow Containing Gyrotactic Microorganisms Propagating Over a Stretching Surface by Successive Taylor Series Linearization Method. Microgravity Science and Technology, 2018, 30, 445-455.	0.7	42
60	Electro-osmotic flow of hydromagnetic dusty viscoelastic fluids in a microchannel propagated by peristalsis. Journal of Molecular Liquids, 2020, 314, 113568.	2.3	42
61	Transient magneto-peristaltic flow of couple stress biofluids: A magneto-hydro-dynamical study on digestive transport phenomena. Mathematical Biosciences, 2013, 246, 72-83.	0.9	41
62	Electroosmosis modulated biomechanical transport through asymmetric microfluidics channel. Indian Journal of Physics, 2018, 92, 1229-1238.	0.9	41
63	ANALYTICAL STUDY OF ELECTRO-OSMOSIS MODULATED CAPILLARY PERISTALTIC HEMODYNAMICS. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750052.	0.3	40
64	A Mathematical Study on Three Layered Oscillatory Blood Flow Through Stenosed Arteries. Journal of Bionic Engineering, 2012, 9, 119-131.	2.7	39
65	Mathematical modelling of pressure-driven micropolar biological flow due to metachronal wave propulsion of beating cilia. Mathematical Biosciences, 2018, 301, 121-128.	0.9	39
66	Mathematical model for ciliary-induced transport in MHD flow of Cu-H 2 O nanofluids with magnetic induction. Chinese Journal of Physics, 2017, 55, 947-962.	2.0	36
67	3D radiative convective flow of ZnO-SAE50nano-lubricant in presence of varying magnetic field and heterogeneous reactions. Propulsion and Power Research, 2019, 8, 339-350.	2.0	36
68	Electroosmosis augmented MHD peristaltic transport of SWCNTs suspension in aqueous media. Journal of Thermal Analysis and Calorimetry, 2022, 147, 2509-2526.	2.0	35
69	Thermal analysis of double diffusive electrokinetic thermally radiated TiO₂-Ag/blood stream triggered by synthetic cilia under buoyancy forces and activation energy. Physica Scripta, 2021, 96, 095218.	1.2	35
70	Entropy analysis in ciliary transport of radiated hybrid nanofluid in presence of electromagnetohydrodynamics and activation energy. Case Studies in Thermal Engineering, 2021, 28, 101665.	2.8	35
71	Heat stream in electroosmotic bio-fluid flow in straight microchannel via peristalsis. International Communications in Heat and Mass Transfer, 2021, 123, 105180.	2.9	34
72	FINITE ELEMENT STUDY OF TRANSIENT PULSATILE MAGNETO-HEMODYNAMIC NON-NEWTONIAN FLOW AND DRUG DIFFUSION IN A POROUS MEDIUM CHANNEL. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250081.	0.3	33

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73	MODELING NANOPARTICLE GEOMETRY EFFECTS ON PERISTALTIC PUMPING OF MEDICAL MAGNETOHYDRODYNAMIC NANOFLUIDS WITH HEAT TRANSFER. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650088.	0.3	33
74	MHD convective heat transfer of nanofluids through a flexible tube with buoyancy: A study of nano-particle shape effects. Advanced Powder Technology, 2017, 28, 453-462.	2.0	33
75	PERISTALTIC TRANSPORT OF A CASSON FLUID IN A FINITE CHANNEL: APPLICATION TO FLOWS OF CONCENTRATED FLUIDS IN OESOPHAGUS. International Journal of Biomathematics, 2010, 03, 453-472.	1.5	32
76	Peristaltic flow of couple stress fluid through uniform porous medium. Applied Mathematics and Mechanics (English Edition), 2014, 35, 469-480.	1.9	32
77	Unsteady viscous flow driven by the combined effects of peristalsis and electro-osmosis. AEJ - Alexandria Engineering Journal, 2018, 57, 1349-1359.	3.4	32
78	Electro-Osmosis Modulated Viscoelastic Embryo Transport in Uterine Hydrodynamics: Mathematical Modeling. Journal of Biomechanical Engineering, 2019, 141, .	0.6	32
79	Mathematica simulation of peristaltic pumping with double-diffusive convection in nanofluids: a bio-nano-engineering model. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2011, 225, 99-114.	0.1	31
80	Analytical approach to entropy generation and heat transfer in CNT-nanofluid dynamics through a ciliated porous medium. Journal of Hydrodynamics, 2018, 30, 296-306.	1.3	31
81	Nanoparticles shape effects on peristaltic transport of nanofluids in presence of magnetohydrodynamics. Microsystem Technologies, 2019, 25, 283-294.	1.2	31
82	Electro-osmotic nanofluid flow in a curved microchannel. Chinese Journal of Physics, 2020, 67, 544-558.	2.0	31
83	Numerical and analytical simulation of peristaltic flows of generalized Oldroydâ€Ɓ fluids. International Journal for Numerical Methods in Fluids, 2011, 67, 1932-1943.	0.9	30
84	Numerical study on peristaltic flow of generalized burgers' fluids in uniform tubes in the presence of an endoscope. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1812-1828.	1.0	30
85	On the propulsion of micropolar fluid inside a channel due to ciliary induced metachronal wave. Applied Mathematics and Computation, 2019, 347, 225-235.	1.4	30
86	Thermal Analysis on MHD Flow of Ethylene Glycol-based BNNTs Nanofluids via Peristaltically Induced Electroosmotic Pumping in a Curved Microchannel. Arabian Journal for Science and Engineering, 2022, 47, 7487-7503.	1.7	29
87	Impact of drug carrier shape, size, porosity and blood rheology on magnetic nanoparticle-based drug delivery in a microvessel. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 639, 128370.	2.3	29
88	Modeling transient magnetohydrodynamic peristaltic pumping of electroconductive viscoelastic fluids through a deformable curved channel. Journal of Engineering Mathematics, 2018, 111, 127-143.	0.6	28
89	Evaluation of thermal, morphological and flame-retardant properties of thermoplastic polyurethane/polyphosphazene blends. Polymer Bulletin, 2018, 75, 2415-2430.	1.7	27
90	Pumping flow model for couple stress fluids with a propagative membrane contraction. International Journal of Mechanical Sciences, 2020, 188, 105949.	3.6	27

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91	Electrokinetic membrane pumping flow model in a microchannel. Physics of Fluids, 2020, 32, .	1.6	27
92	Peristaltic flow of a fractional second grade fluid through a cylindrical tube. Thermal Science, 2011, 15, 167-173.	0.5	27
93	Transient peristaltic diffusion of nanofluids: A model of micropumps in medical engineering. Journal of Hydrodynamics, 2018, 30, 1001-1011.	1.3	26
94	Slip and Hall Current Effects on Jeffrey Fluid Suspension Flow in a Peristaltic Hydromagnetic Blood Micropump. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 675-692.	0.8	26
95	A cycling study for reliability, chemical stability and thermal durability of polyethylene glycols of molecular weight 2000 and 10000 as organic latent heat thermal energy storage materials. International Journal of Energy Research, 2020, 44, 2183-2195.	2.2	26
96	Numerical study of the electroosmotic flow of Al2O3â€“CH3OH Sisko nanofluid through a tapered microchannel in a porous environment. Applied Nanoscience (Switzerland), 2020, 10, 4161-4176.	1.6	26
97	Influence of magnetic field on the peristaltic flow of a viscous fluid through a finite-length cylindrical tube. Applied Bionics and Biomechanics, 2010, 7, 169-176.	0.5	25
98	A mathematical model for the movement of food bolus of varying viscosities through the esophagus. Acta Astronautica, 2011, 69, 429-439.	1.7	25
99	MAGNETOHYDRODYNAMIC PERISTALTIC FLOW OF A COUPLE STRESS FLUID THROUGH COAXIAL CHANNELS CONTAINING A POROUS MEDIUM. Journal of Mechanics in Medicine and Biology, 2012, 12, 1250088.	0.3	25
100	Peristaltic Creeping Flow of Power Law Physiological Fluids through a Nonuniform Channel with Slip Effect. Applied Bionics and Biomechanics, 2015, 2015, 1-10.	0.5	25
101	ADOMIAN DECOMPOSITION METHOD (ADM) SIMULATION OF MAGNETO-BIO-TRIBOLOGICAL SQUEEZE FILM WITH MAGNETIC INDUCTION EFFECTS. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550072.	0.3	25
102	In silico modeling of bone adaptation to rest-inserted loading: Strain energy density versus fluid flow as stimulus. Journal of Theoretical Biology, 2018, 446, 110-127.	0.8	25
103	Canalicular fluid flow induced by loading waveforms: A comparative analysis. Journal of Theoretical Biology, 2019, 471, 59-73.	0.8	25
104	Convective heat transfer and double diffusive convection in ionic nanofluids flow driven by peristalsis and electromagnetohydrodynamics. Pramana - Journal of Physics, 2020, 94, 1.	0.9	25
105	Peristaltic transport of multilayered power-law fluids with distinct viscosities: A mathematical model for intestinal flows. Journal of Theoretical Biology, 2011, 278, 11-19.	0.8	24
106	PERISTALTIC TRANSPORT OF MAXWELL VISCOELASTIC FLUIDS WITH A SLIP CONDITION: HOMOTOPY ANALYSIS OF GASTRIC TRANSPORT. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550021.	0.3	24
107	Influence of slip condition on peristaltic transport of a viscoelastic fluid with fractional Burgerâ€™s model. Thermal Science, 2011, 15, 501-515.	0.5	23
108	Nanoparticle shapes effects on unsteady physiological transport of nanofluids through a finite length non-uniform channel. Results in Physics, 2017, 7, 2477-2484.	2.0	23

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109	Three-layered electro-osmosis modulated blood flow through a microchannel. European Journal of Mechanics, B/Fluids, 2018, 72, 391-402.	1.2	23
110	Heat transfer analysis on creeping flow Carreau fluid driven by peristaltic pumping in an inclined asymmetric channel. Thermal Science and Engineering Progress, 2020, 17, 100486.	1.3	23
111	PERISTALTIC FLOW CHARACTERSTICS OF MAXWELL AND MAGNETOHYDRODYNAMIC FLUIDS IN FINITE CHANNELS: MODELS FOR OESOPHAGEAL SWALLOWING. Journal of Biological Systems, 2010, 18, 621-647.	0.5	22
112	Improved thermal energy storage behavior of polyethylene glycol-based NEOPCM containing aluminum oxide nanoparticles for solar thermal applications. Journal of Thermal Analysis and Calorimetry, 2021, 143, 1881-1892.	2.0	22
113	Numerical investigation of magnetic nanofluids flow over rotating disk embedded in a porous medium. Thermal Science, 2018, 22, 2883-2895.	0.5	22
114	Numerical Study on Creeping Flow of Burgersâ€™ Fluids through a Peristaltic Tube. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	0.8	21
115	Mathematical modelling of peristaltic propulsion of viscoplastic bio-fluids. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 67-88.	1.0	20
116	Physical hydrodynamic propulsion model study on creeping viscous flow through a ciliated porous tube. Pramana - Journal of Physics, 2017, 88, 1.	0.9	20
117	Time-dependent analysis of electroosmotic fluid flow in a microchannel. Journal of Engineering Mathematics, 2019, 114, 177-196.	0.6	20
118	Entropy generation in electroosmotically aided peristaltic pumping of MoS₂ Rabinowitsch nanofluid. Fluid Dynamics Research, 2022, 54, 015507.	0.6	20
119	Variable-viscosity thermal hemodynamic slip flow conveying nanoparticles through a permeable-walled composite stenosed artery. European Physical Journal Plus, 2017, 132, 1.	1.2	19
120	NUMERICAL STUDY ON PERISTALTIC TRANSPORT OF FRACTIONAL BIO-FLUIDS. Journal of Mechanics in Medicine and Biology, 2011, 11, 1045-1058.	0.3	18
121	Porosity effect on the boundary layer Bodewadt flow of a magnetic nanofluid in the presence of geothermal viscosity. European Physical Journal Plus, 2017, 132, 1.	1.2	18
122	Electrothermal Transport in Biological Systems: An Analytical Approach for Electrokinetically Modulated Peristaltic Flow. Journal of Thermal Science and Engineering Applications, 2017, 9, .	0.8	18
123	Numerical simulation of Electrokinetically Driven Peristaltic Pumping of Silver-Water Nanofluids in an asymmetric microchannel. Chinese Journal of Physics, 2020, 68, 745-763.	2.0	18
124	Electrothermal analysis in two-layered couple stress fluid flow in an asymmetric microchannel via peristaltic pumping. Journal of Thermal Analysis and Calorimetry, 2021, 144, 1325-1342.	2.0	18
125	Analysis of thermal radiation, Joule heating, and viscous dissipation effects on bloodâ€gold couple stress nanofluid flow driven by electroosmosis. Heat Transfer, 2022, 51, 4080-4101.	1.7	18
126	PERISTALTIC FLOW OF COUPLE-STRESS CONDUCTING FLUIDS THROUGH A POROUS CHANNEL: APPLICATIONS TO BLOOD FLOW IN THE MICRO-CIRCULATORY SYSTEM. Journal of Biological Systems, 2011, 19, 461-477.	0.5	17

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127	Peristaltic transport of bi-viscosity fluids through a curved tube: A mathematical model for intestinal flow. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 817-828.	1.0	17
128	Thermally developing MHD peristaltic transport of nanofluids with velocity and thermal slip effects. European Physical Journal Plus, 2016, 131, 1.	1.2	17
129	Alterations in peristaltic pumping of Jeffery nanoliquids with electric and magnetic fields. Meccanica, 2018, 53, 3719-3738.	1.2	17
130	3D MHD cross flow over an exponential stretching porous surface. Heat Transfer, 2020, 49, 1256-1280.	1.7	17
131	Entropy and exergy analysis on peristaltic pumping in a curved narrow channel. Heat Transfer, 2020, 49, 3357-3373.	1.7	17
132	Tangent hyperbolic non-Newtonian radiative bioconvection nanofluid flow from a bi-directional stretching surface with electro-magneto-hydrodynamic, Joule heating and modified diffusion effects. European Physical Journal Plus, 2022, 137, .	1.2	17
133	A Mathematical Model for Peristaltic Transport of Micro-Polar Fluids. Applied Bionics and Biomechanics, 2011, 8, 279-293.	0.5	16
134	Nanostructures study of CNT nanofluids transport with temperature-dependent variable viscosity in a muscular tube. European Physical Journal Plus, 2017, 132, 1.	1.2	16
135	Electrothermal transport of third-order fluids regulated by peristaltic pumping. Journal of Biological Physics, 2020, 46, 45-65.	0.7	16
136	Numerical investigation of Cattanneo-Christov heat flux in CNT suspended nanofluid flow over a stretching porous surface with suction and injection. Discrete and Continuous Dynamical Systems - Series S, 2018, 11, 583-594.	0.6	16
137	Insight into Newtonian fluid flow and heat transfer in vertical microchannel subject to rhythmic membrane contraction due to pressure gradient and buoyancy forces. International Journal of Heat and Mass Transfer, 2022, 184, 122249.	2.5	16
138	Study of heat transfer on physiological driven movement with CNT nanofluids and variable viscosity. Computer Methods and Programs in Biomedicine, 2016, 136, 21-29.	2.6	15
139	Electroosmotically induced alterations in peristaltic microflows of power law fluids through physiological vessels. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	0.8	15
140	Signalling molecule transport analysis in lacunarâ€“canalicular system. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1879-1896.	1.4	15
141	Influence of Magnetic Field on the Peristaltic Flow of a Viscous Fluid through a Finite-Length Cylindrical Tube. Applied Bionics and Biomechanics, 2010, 7, 169-176.	0.5	14
142	Double-diffusion convective biomimetic flow of nanofluid in a complex divergent porous wavy medium under magnetic effects. Journal of Biological Physics, 2021, 47, 477-498.	0.7	14
143	Thermal effects on SARS-CoV-2 transmission in peristaltic blood flow: Mathematical modeling. Physics of Fluids, 2022, 34, .	1.6	14
144	Unsteady peristaltic transport of Maxwell fluid through finite length tube: application to oesophageal swallowing. Applied Mathematics and Mechanics (English Edition), 2012, 33, 15-24.	1.9	13

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145	Synthesis and evaluation of catalytic curing behavior of novel nitrile-functionalized benzoxazine for phthalonitrile resins. Polymer Bulletin, 2018, 75, 3781-3800.	1.7	13
146	Computer modelling of peristalsis-driven intrauterine fluid flow in the presence of electromagnetohydrodynamics. European Physical Journal Plus, 2019, 134, 1.	1.2	13
147	Thermoâ€electrokinetic rotating nonâ€Newtonian hybrid nanofluid flow from an accelerating vertical surface. Heat Transfer, 2022, 51, 1746-1777.	1.7	13
148	Electromagnetic field induced alterations in fluid flow through lacuno-canalicular system of bone. International Journal of Mechanical Sciences, 2022, 217, 107036.	3.6	13
149	Biomechanically driven unsteady non-uniform flow of Copper water and Silver water nanofluids through finite length channel. Computer Methods and Programs in Biomedicine, 2017, 146, 1-9.	2.6	12
150	Comparative study on ethylene glycol based Ag-Al ₂ O ₃ and Al ₂ O ₃ nanofluids flow driven by electroosmotic and peristaltic pumping: a nano-coolant for radiators. Physica Scripta, 2020, 95, 115208.	1.2	12
151	Unsteady Peristaltic Flow of Micro-Polar Fluid in a Finite Channel. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2011, 66, 181-192.	0.7	11
152	Mathematica numerical simulation of peristaltic biophysical transport of a fractional viscoelastic fluid through an inclined cylindrical tube. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1648-1657.	0.9	11
153	Magnetohydrodynamics-based pumping flow model with propagative rhythmic membrane contraction. European Physical Journal Plus, 2020, 135, 1.	1.2	11
154	A Model for Electro-osmotic Flow of Pseudoplastic Nanofluids in Presence of Peristaltic Pumping: An Application to Smart Pumping in Energy Systems. Green Energy and Technology, 2020, , 185-213.	0.4	11
155	Study of entropy generation and heat flow through a microtube induced by the membrane-based thermofluidics systems. Thermal Science and Engineering Progress, 2022, 34, 101395.	1.3	11
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