

Dharmendra Tripathi

List of Publications by Citations

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178
papers

4,297
citations

37
h-index

52
g-index

194
ext. papers

5,349
ext. citations

2.8
avg, IF

6.71
L-index

#	Paper	IF	Citations
178	A study on peristaltic flow of nanofluids: Application in drug delivery systems. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 61-70	4.9	204
177	Peristaltic flow of viscoelastic fluid with fractional Maxwell model through a channel. <i>Applied Mathematics and Computation</i> , 2010 , 215, 3645-3654	2.7	149
176	3D free convective MHD flow of nanofluid over permeable linear stretching sheet with thermal radiation. <i>Powder Technology</i> , 2017 , 315, 205-215	5.2	112
175	Electroosmosis-modulated peristaltic transport in microfluidic channels. <i>Physics of Fluids</i> , 2016 , 28, 052002	4.4	88
174	A numerical study of magnetohydrodynamic transport of nanofluids over a vertical stretching sheet with exponential temperature-dependent viscosity and buoyancy effects. <i>Chemical Physics Letters</i> , 2016 , 661, 20-30	2.5	78
173	A mathematical model for the peristaltic flow of chyme movement in small intestine. <i>Mathematical Biosciences</i> , 2011 , 233, 90-7	3.9	71
172	Electro-magneto-hydrodynamic peristaltic pumping of couple stress biofluids through a complex wavy micro-channel. <i>Journal of Molecular Liquids</i> , 2017 , 236, 358-367	6	69
171	Electrothermal transport of nanofluids via peristaltic pumping in a finite micro-channel: Effects of Joule heating and Helmholtz-Smoluchowski velocity. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 138-149	4.9	67
170	Peristaltic Pumping of Nanofluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow. <i>Symmetry</i> , 2019 , 11, 868	2.7	65
169	Peristaltic transport of fractional Maxwell fluids in uniform tubes: Applications in endoscopy. <i>Computers and Mathematics With Applications</i> , 2011 , 62, 1116-1126	2.7	64
168	Electroosmotic flow of Williamson ionic nanoliquids in a tapered microfluidic channel in presence of thermal radiation and peristalsis. <i>Journal of Molecular Liquids</i> , 2018 , 256, 352-371	6	57
167	Study of transient peristaltic heat flow through a finite porous channel. <i>Mathematical and Computer Modelling</i> , 2013 , 57, 1270-1283		57
166	Thermal radiation effects on electroosmosis modulated peristaltic transport of ionic nanoliquids in biomicrofluidics channel. <i>Journal of Molecular Liquids</i> , 2018 , 249, 843-855	6	56
165	Joule heating and buoyancy effects in electro-osmotic peristaltic transport of aqueous nanofluids through a microchannel with complex wave propagation. <i>Advanced Powder Technology</i> , 2018 , 29, 639-653	4.6	54
164	A mathematical model for swallowing of food bolus through the oesophagus under the influence of heat transfer. <i>International Journal of Thermal Sciences</i> , 2012 , 51, 91-101	4.1	54
163	Transverse magnetic field driven modification in unsteady peristaltic transport with electrical double layer effects. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 506, 32-39	5.1	52
162	Electro-osmotic flow of couple stress fluids in a micro-channel propagated by peristalsis. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	51

161	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. <i>Acta Astronautica</i> , 2016 , 128, 1-12	2.9	50
160	Peristaltic pumping of magnetic nanofluids with thermal radiation and temperature-dependent viscosity effects: Modelling a solar magneto-biomimetic nanopump. <i>Renewable Energy</i> , 2019 , 133, 1308-1326	8.1	50
159	Peristaltic transport of a viscoelastic fluid in a channel. <i>Acta Astronautica</i> , 2011 , 68, 1379-1385	2.9	49
158	Thermal, microrotation, electromagnetic field and nanoparticle shape effects on Cu-CuO/blood flow in microvascular vessels. <i>Microvascular Research</i> , 2020 , 132, 104065	3.7	49
157	MHD 3D free convective flow of nanofluid over an exponentially stretching sheet with chemical reaction. <i>Advanced Powder Technology</i> , 2017 , 28, 2159-2166	4.6	46
156	Peristaltic propulsion of generalized Burgers' fluids through a non-uniform porous medium: a study of chyme dynamics through the diseased intestine. <i>Mathematical Biosciences</i> , 2014 , 248, 67-77	3.9	46
155	Thermally developed peristaltic propulsion of magnetic solid particles in biorheological fluids. <i>Indian Journal of Physics</i> , 2018 , 92, 423-430	1.4	46
154	A Numerical Study of Oscillating Peristaltic Flow of Generalized Maxwell Viscoelastic Fluids Through a Porous Medium. <i>Transport in Porous Media</i> , 2012 , 95, 337-348	3.1	44
153	DTM Simulation of Peristaltic Viscoelastic Biofluid Flow in Asymmetric Porous Media: A Digestive Transport Model. <i>Journal of Bionic Engineering</i> , 2015 , 12, 643-655	2.7	43
152	UNSTEADY MODEL OF TRANSPORTATION OF JEFFREY-FLUID BY PERISTALSIS. <i>International Journal of Biomathematics</i> , 2010 , 03, 473-491	1.8	43
151	3D Bioconvective multiple slip flow of chemically reactive Casson nanofluid with gyrotactic micro-organisms. <i>Heat Transfer - Asian Research</i> , 2020 , 49, 135-153	2.8	43
150	Study of microvascular non-Newtonian blood flow modulated by electroosmosis. <i>Microvascular Research</i> , 2018 , 117, 28-36	3.7	42
149	Mathematical modelling of heat transfer effects on swallowing dynamics of viscoelastic food bolus through the human oesophagus. <i>International Journal of Thermal Sciences</i> , 2013 , 70, 41-53	4.1	41
148	Peristaltic Hemodynamic Flow of Couple-Stress Fluids Through a Porous Medium with Slip Effect. <i>Transport in Porous Media</i> , 2012 , 92, 559-572	3.1	40
147	Numerical simulation of heat transfer in blood flow altered by electroosmosis through tapered micro-vessels. <i>Microvascular Research</i> , 2018 , 118, 162-172	3.7	39
146	Homotopy semi-numerical simulation of peristaltic flow of generalised Oldroyd-B fluids with slip effects. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17, 433-42	2.1	39
145	Three dimensional MHD flow of nanofluid over an exponential porous stretching sheet with convective boundary conditions. <i>Thermal Science and Engineering Progress</i> , 2017 , 3, 133-140	3.6	39
144	Nanofluids flow driven by peristaltic pumping in occurrence of magnetohydrodynamics and thermal radiation. <i>Materials Science in Semiconductor Processing</i> , 2019 , 100, 290-300	4.3	38

143	Transient magneto-peristaltic flow of couple stress biofluids: a magneto-hydro-dynamical study on digestive transport phenomena. <i>Mathematical Biosciences</i> , 2013 , 246, 72-83	3.9	38
142	Peristaltic transport of a generalized Burgers fluid: Application to the movement of chyme in small intestine. <i>Acta Astronautica</i> , 2011 , 69, 30-38	2.9	37
141	Electro-kinetically driven peristaltic transport of viscoelastic physiological fluids through a finite length capillary: Mathematical modeling. <i>Mathematical Biosciences</i> , 2017 , 283, 155-168	3.9	35
140	Computer modelling of electro-osmotically augmented three-layered microvascular peristaltic blood flow. <i>Microvascular Research</i> , 2017 , 114, 65-83	3.7	35
139	A Mathematical Study on Three Layered Oscillatory Blood Flow Through Stenosed Arteries. <i>Journal of Bionic Engineering</i> , 2012 , 9, 119-131	2.7	35
138	A study of unsteady physiological magneto-fluid flow and heat transfer through a finite length channel by peristaltic pumping. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2012 , 226, 631-44	1.7	35
137	Entropy generation and Joule heating of two layered electroosmotic flow in the peristaltically induced micro-channel. <i>International Journal of Mechanical Sciences</i> , 2019 , 153-154, 430-444	5.5	35
136	Electroosmotic flow of pseudoplastic nanoliquids via peristaltic pumping. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	35
135	Analysis of double diffusive convection in electroosmosis regulated peristaltic transport of nanofluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 535, 122148	3.3	34
134	Heat transfer analysis on electroosmotic flow via peristaltic pumping in non-Darcy porous medium. <i>Thermal Science and Engineering Progress</i> , 2019 , 11, 254-262	3.6	34
133	Comparative study of hybrid nanofluids in microchannel slip flow induced by electroosmosis and peristalsis. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1693-1706	3.3	34
132	Analysis of entropy generation in biomimetic electroosmotic nanofluid pumping through a curved channel with joule dissipation. <i>Thermal Science and Engineering Progress</i> , 2020 , 15, 100424	3.6	34
131	Electroosmotic flow of biorheological micropolar fluids through microfluidic channels 2018 , 30, 89-98		33
130	Peristaltic flow of MHD Jeffrey fluid through finite length cylindrical tube. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011 , 32, 1231-1244	3.2	32
129	Electroosmosis modulated transient blood flow in curved microvessels: Study of a mathematical model. <i>Microvascular Research</i> , 2019 , 123, 25-34	3.7	32
128	Joule heating and zeta potential effects on peristaltic blood flow through porous micro vessels altered by electrohydrodynamic. <i>Microvascular Research</i> , 2018 , 117, 74-89	3.7	31
127	Electroosmosis modulated biomechanical transport through asymmetric microfluidics channel. <i>Indian Journal of Physics</i> , 2018 , 92, 1229-1238	1.4	31
126	Electroosmosis modulated peristaltic biorheological flow through an asymmetric microchannel: mathematical model. <i>Meccanica</i> , 2018 , 53, 2079-2090	2.1	31

125	ANALYTICAL STUDY OF ELECTRO-OSMOSIS MODULATED CAPILLARY PERISTALTIC HEMODYNAMICS. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750052	0.7	30
124	PERISTALTIC TRANSPORT OF A CASSON FLUID IN A FINITE CHANNEL: APPLICATION TO FLOWS OF CONCENTRATED FLUIDS IN OESOPHAGUS. <i>International Journal of Biomathematics</i> , 2010 , 03, 453-472	1.8	30
123	Mathematical model for ciliary-induced transport in MHD flow of Cu-H ₂ O nanofluids with magnetic induction. <i>Chinese Journal of Physics</i> , 2017 , 55, 947-962	3.5	29
122	Magnetohydrodynamics Nanofluid Flow Containing Gyrotactic Microorganisms Propagating Over a Stretching Surface by Successive Taylor Series Linearization Method. <i>Microgravity Science and Technology</i> , 2018 , 30, 445-455	1.6	29
121	Thermal slip and radiative heat transfer effects on electro-osmotic magnetonanofluid peristaltic propulsion through a microchannel. <i>Heat Transfer - Asian Research</i> , 2019 , 48, 2882-2908	2.8	28
120	Mathematical modelling of pressure-driven micropolar biological flow due to metachronal wave propulsion of beating cilia. <i>Mathematical Biosciences</i> , 2018 , 301, 121-128	3.9	27
119	MHD convective heat transfer of nanofluids through a flexible tube with buoyancy: A study of nano-particle shape effects. <i>Advanced Powder Technology</i> , 2017 , 28, 453-462	4.6	27
118	FINITE ELEMENT STUDY OF TRANSIENT PULSATILE MAGNETO-HEMODYNAMIC NON-NEWTONIAN FLOW AND DRUG DIFFUSION IN A POROUS MEDIUM CHANNEL. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250081	0.7	27
117	Numerical and analytical simulation of peristaltic flows of generalized Oldroyd-B fluids. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 67, 1932-1943	1.9	27
116	Cilia-assisted hydromagnetic pumping of biorheological couple stress fluids. <i>Propulsion and Power Research</i> , 2019 , 8, 221-233	3.6	26
115	MODELING NANOPARTICLE GEOMETRY EFFECTS ON PERISTALTIC PUMPING OF MEDICAL MAGNETOHYDRODYNAMIC NANOFLOUIDS WITH HEAT TRANSFER. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1650088	0.7	26
114	Nanoparticles shape effects on peristaltic transport of nanofluids in presence of magnetohydrodynamics. <i>Microsystem Technologies</i> , 2019 , 25, 283-294	1.7	25
113	Peristaltic flow of couple stress fluid through uniform porous medium. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014 , 35, 469-480	3.2	25
112	Numerical study on peristaltic flow of generalized burgers' fluids in uniform tubes in the presence of an endoscope. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 1812-1828	2.6	25
111	Mathematica simulation of peristaltic pumping with double-diffusive convection in nanofluids: a bio-nano-engineering model. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2011 , 225, 99-114		24
110	Numerical simulation of double diffusive convection and electroosmosis during peristaltic transport of a micropolar nanofluid on an asymmetric microchannel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2499-2514	4.1	24
109	A mathematical model for the movement of food bolus of varying viscosities through the esophagus. <i>Acta Astronautica</i> , 2011 , 69, 429-439	2.9	23
108	Numerical study of electroosmosis-induced alterations in peristaltic pumping of couple stress hybrid nanofluids through microchannel. <i>Indian Journal of Physics</i> , 2020 , 1	1.4	23

107	Electro-osmosis Modulated Viscoelastic Embryo Transport in Uterine Hydrodynamics: Mathematical Modelling. <i>Journal of Biomechanical Engineering</i> , 2018 ,	2.1	23
106	Modeling transient magnetohydrodynamic peristaltic pumping of electroconductive viscoelastic fluids through a deformable curved channel. <i>Journal of Engineering Mathematics</i> , 2018 , 111, 127-143	1.2	22
105	Influence of magnetic field on the peristaltic flow of a viscous fluid through a finite-length cylindrical tube. <i>Applied Bionics and Biomechanics</i> , 2010 , 7, 169-176	1.6	22
104	MAGNETOHYDRODYNAMIC PERISTALTIC FLOW OF A COUPLE STRESS FLUID THROUGH COAXIAL CHANNELS CONTAINING A POROUS MEDIUM. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250088	0.7	22
103	Electro-osmotic flow of hydromagnetic dusty viscoelastic fluids in a microchannel propagated by peristalsis. <i>Journal of Molecular Liquids</i> , 2020 , 314, 113568	6	21
102	Analytical approach to entropy generation and heat transfer in CNT-nanofluid dynamics through a ciliated porous medium. <i>Journal of Hydrodynamics</i> , 2018 , 30, 296-306	3.3	21
101	Blood-based graphene oxide nanofluid flow through capillary in the presence of electromagnetic fields: A Sutterby fluid model. <i>Microvascular Research</i> , 2020 , 132, 104062	3.7	21
100	ADOMIAN DECOMPOSITION METHOD (ADM) SIMULATION OF MAGNETO-BIO-TRIBOLOGICAL SQUEEZE FILM WITH MAGNETIC INDUCTION EFFECTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2015 , 15, 1550072	0.7	20
99	Peristaltic Creeping Flow of Power Law Physiological Fluids through a Nonuniform Channel with Slip Effect. <i>Applied Bionics and Biomechanics</i> , 2015 , 2015, 152802	1.6	20
98	Peristaltic transport of multilayered power-law fluids with distinct viscosities: a mathematical model for intestinal flows. <i>Journal of Theoretical Biology</i> , 2011 , 278, 11-9	2.3	20
97	Slip and Hall Current Effects on Jeffrey Fluid Suspension Flow in a Peristaltic Hydromagnetic Blood Micropump. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019 , 43, 675-692	1.2	19
96	PERISTALTIC FLOW CHARACTERISTICS OF MAXWELL AND MAGNETOHYDRODYNAMIC FLUIDS IN FINITE CHANNELS: MODELS FOR OESOPHAGEAL SWALLOWING. <i>Journal of Biological Systems</i> , 2010 , 18, 621-647	1.6	19
95	Peristaltic flow of a fractional second grade fluid through a cylindrical tube. <i>Thermal Science</i> , 2011 , 15, 167-173	1.2	19
94	Transient peristaltic diffusion of nanofluids: A model of micropumps in medical engineering. <i>Journal of Hydrodynamics</i> , 2018 , 30, 1001-1011	3.3	19
93	On the propulsion of micropolar fluid inside a channel due to ciliary induced metachronal wave. <i>Applied Mathematics and Computation</i> , 2019 , 347, 225-235	2.7	18
92	PERISTALTIC TRANSPORT OF MAXWELL VISCOELASTIC FLUIDS WITH A SLIP CONDITION: HOMOTOPY ANALYSIS OF GASTRIC TRANSPORT. <i>Journal of Mechanics in Medicine and Biology</i> , 2015 , 15, 1550021	0.7	17
91	Nanoparticle shapes effects on unsteady physiological transport of nanofluids through a finite length non-uniform channel. <i>Results in Physics</i> , 2017 , 7, 2477-2484	3.7	17
90	Variable-viscosity thermal hemodynamic slip flow conveying nanoparticles through a permeable-walled composite stenosed artery. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	17

89	Numerical Study on Creeping Flow of Burgers Fluids through a Peristaltic Tube. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2011 , 133,	2.1	17
88	Time-dependent analysis of electroosmotic fluid flow in a microchannel. <i>Journal of Engineering Mathematics</i> , 2019 , 114, 177-196	1.2	16
87	In silico modeling of bone adaptation to rest-inserted loading: Strain energy density versus fluid flow as stimulus. <i>Journal of Theoretical Biology</i> , 2018 , 446, 110-127	2.3	16
86	Unsteady viscous flow driven by the combined effects of peristalsis and electro-osmosis. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 1349-1359	6.1	16
85	Evaluation of thermal, morphological and flame-retardant properties of thermoplastic polyurethane/polyphosphazene blends. <i>Polymer Bulletin</i> , 2018 , 75, 2415-2430	2.4	16
84	Mathematical modelling of peristaltic propulsion of viscoplastic bio-fluids. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 67-88	1.7	16
83	NUMERICAL STUDY ON PERISTALTIC TRANSPORT OF FRACTIONAL BIO-FLUIDS. <i>Journal of Mechanics in Medicine and Biology</i> , 2011 , 11, 1045-1058	0.7	16
82	Influence of slip condition on peristaltic transport of a viscoelastic fluid with fractional Burger model. <i>Thermal Science</i> , 2011 , 15, 501-515	1.2	16
81	Convective heat transfer and double diffusive convection in ionic nanofluids flow driven by peristalsis and electromagnetohydrodynamics 2020 , 94, 1		16
80	Electrothermal Transport in Biological Systems: An Analytical Approach for Electrokinetically Modulated Peristaltic Flow. <i>Journal of Thermal Science and Engineering Applications</i> , 2017 , 9,	1.9	15
79	Three-layered electro-osmosis modulated blood flow through a microchannel. <i>European Journal of Mechanics, B/Fluids</i> , 2018 , 72, 391-402	2.4	15
78	Thermally developing MHD peristaltic transport of nanofluids with velocity and thermal slip effects. <i>European Physical Journal Plus</i> , 2016 , 131, 1	3.1	15
77	Nanostructures study of CNT nanofluids transport with temperature-dependent variable viscosity in a muscular tube. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	14
76	Porosity effect on the boundary layer Bodewadt flow of a magnetic nanofluid in the presence of geothermal viscosity. <i>European Physical Journal Plus</i> , 2017 , 132, 1	3.1	14
75	Physical hydrodynamic propulsion model study on creeping viscous flow through a ciliated porous tube 2017 , 88, 1		14
74	A Mathematical Model for Peristaltic Transport of Micro-Polar Fluids. <i>Applied Bionics and Biomechanics</i> , 2011 , 8, 279-293	1.6	14
73	Pumping flow model for couple stress fluids with a propagative membrane contraction. <i>International Journal of Mechanical Sciences</i> , 2020 , 188, 105949	5.5	14
72	Numerical study of the electroosmotic flow of Al ₂ O ₃ -H ₂ O Sisko nanofluid through a tapered microchannel in a porous environment. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 4161-4176	3.3	14

71	Alterations in peristaltic pumping of Jeffery nanoliquids with electric and magnetic fields. <i>Meccanica</i> , 2018 , 53, 3719-3738	2.1	14
70	Heat transfer analysis on creeping flow Carreau fluid driven by peristaltic pumping in an inclined asymmetric channel. <i>Thermal Science and Engineering Progress</i> , 2020 , 17, 100486	3.6	13
69	Influence of Magnetic Field on the Peristaltic Flow of a Viscous Fluid through a Finite-Length Cylindrical Tube. <i>Applied Bionics and Biomechanics</i> , 2010 , 7, 169-176	1.6	13
68	PERISTALTIC FLOW OF COUPLE-STRESS CONDUCTING FLUIDS THROUGH A POROUS CHANNEL: APPLICATIONS TO BLOOD FLOW IN THE MICRO-CIRCULATORY SYSTEM. <i>Journal of Biological Systems</i> , 2011 , 19, 461-477	1.6	13
67	Numerical investigation of magnetic nanofluids flow over rotating disk embedded in a porous medium. <i>Thermal Science</i> , 2018 , 22, 2883-2895	1.2	13
66	Numerical investigation of Cattaneo-Christov heat flux in CNT suspended nanofluid flow over a stretching porous surface with suction and injection. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2018 , 11, 583-594	2.8	13
65	Thermal analysis of double diffusive electrokinetic thermally radiated TiO ₂ -Ag/blood stream triggered by synthetic cilia under buoyancy forces and activation energy. <i>Physica Scripta</i> , 2021 , 96, 095218	2.6	13
64	3D radiative convective flow of ZnO-SAE50nano-lubricant in presence of varying magnetic field and heterogeneous reactions. <i>Propulsion and Power Research</i> , 2019 , 8, 339-350	3.6	13
63	Study of heat transfer on physiological driven movement with CNT nanofluids and variable viscosity. <i>Computer Methods and Programs in Biomedicine</i> , 2016 , 136, 21-9	6.9	12
62	Unsteady peristaltic transport of Maxwell fluid through finite length tube: application to oesophageal swallowing. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012 , 33, 15-24	3.2	12
61	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. <i>International Journal of Energy Research</i> , 2020 , 44, 2183-2195	4.5	12
60	Electro-osmotic nanofluid flow in a curved microchannel. <i>Chinese Journal of Physics</i> , 2020 , 67, 544-558	3.5	12
59	Peristaltic transport of bi-viscosity fluids through a curved tube: A mathematical model for intestinal flow. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016 , 230, 817-828	1.7	12
58	Numerical simulation of Electrokinetically Driven Peristaltic Pumping of Silver-Water Nanofluids in an asymmetric microchannel. <i>Chinese Journal of Physics</i> , 2020 , 68, 745-763	3.5	11
57	Heat stream in electroosmotic bio-fluid flow in straight microchannel via peristalsis. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 123, 105180	5.8	10
56	Canalicular fluid flow induced by loading waveforms: A comparative analysis. <i>Journal of Theoretical Biology</i> , 2019 , 471, 59-73	2.3	9
55	Unsteady Peristaltic Flow of Micro-Polar Fluid in a Finite Channel. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2011 , 66, 181-192	1.4	9
54	Improved thermal energy storage behavior of polyethylene glycol-based NEOPCM containing aluminum oxide nanoparticles for solar thermal applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 1881-1892	4.1	9

53	A Theoretical Investigation on the Heat Transfer Ability of Water-Based Hybrid (Ag/Au) Nanofluids and Ag Nanofluids Flow Driven by Electroosmotic Pumping Through a Microchannel. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 2911-2927	2.5	9
52	Biomechanically driven unsteady non-uniform flow of Copper water and Silver water nanofluids through finite length channel. <i>Computer Methods and Programs in Biomedicine</i> , 2017 , 146, 1-9	6.9	8
51	Entropy and exergy analysis on peristaltic pumping in a curved narrow channel. <i>Heat Transfer</i> , 2020 , 49, 3357-3373	3.1	8
50	Electrothermal transport of third-order fluids regulated by peristaltic pumping. <i>Journal of Biological Physics</i> , 2020 , 46, 45-65	1.6	8
49	Electroosmotically induced alterations in peristaltic microflows of power law fluids through physiological vessels. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018 , 40, 1	2	8
48	Mathematica numerical simulation of peristaltic biophysical transport of a fractional viscoelastic fluid through an inclined cylindrical tube. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 1648-57	2.1	8
47	A Mathematical Model for Swallowing of Concentrated Fluids in Oesophagus. <i>Applied Bionics and Biomechanics</i> , 2011 , 8, 309-321	1.6	8
46	Entropy analysis in ciliary transport of radiated hybrid nanofluid in presence of electromagnetohydrodynamics and activation energy. <i>Case Studies in Thermal Engineering</i> , 2021 , 28, 101665	5.6	8
45	Electrokinetic membrane pumping flow model in a microchannel. <i>Physics of Fluids</i> , 2020 , 32, 082004	4.4	8
44	Synthesis and evaluation of catalytic curing behavior of novel nitrile-functionalized benzoxazine for phthalonitrile resins. <i>Polymer Bulletin</i> , 2018 , 75, 3781-3800	2.4	8
43	Computer modelling of peristalsis-driven intrauterine fluid flow in the presence of electromagnetohydrodynamics. <i>European Physical Journal Plus</i> , 2019 , 134, 1	3.1	7
42	Signalling molecule transport analysis in lacunar-canalicular system. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020 , 19, 1879-1896	3.8	7
41	Stokes flow of micro-polar fluids by peristaltic pumping through tube with slip boundary condition. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2011 , 32, 1587-1598	3.2	7
40	3D MHD cross flow over an exponential stretching porous surface. <i>Heat Transfer</i> , 2020 , 49, 1256-1280	3.1	7
39	Thermal Analysis on MHD Flow of Ethylene Glycol-based BNNTs Nanofluids via Peristaltically Induced Electroosmotic Pumping in a Curved Microchannel. <i>Arabian Journal for Science and Engineering</i> , 1	2.5	7
38	A MATHEMATICAL MODEL FOR BLOOD FLOW THROUGH INCLINED ARTERIES UNDER THE INFLUENCE OF INCLINED MAGNETIC FIELD. <i>Journal of Mechanics in Medicine and Biology</i> , 2012 , 12, 1250033	0.7	6
37	ELECTRO-OSMOTIC FLOW IN A MICROCHANNEL CONTAINING A POROUS MEDIUM WITH COMPLEX WAVY WALLS. <i>Journal of Porous Media</i> , 2020 , 23, 477-495	2.9	6
36	A Model for Electro-osmotic Flow of Pseudoplastic Nanofluids in Presence of Peristaltic Pumping: An Application to Smart Pumping in Energy Systems. <i>Green Energy and Technology</i> , 2020 , 185-213	0.6	6

35	Electroosmosis augmented MHD peristaltic transport of SWCNTs suspension in aqueous media. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	6
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