Dharmendra Tripathi

List of Publications by Year in Descending Order

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	Entropy generation in electroosmotically aided peristaltic pumping of MoS2 Rabinowitsch nanofluid. *Fluid Dynamics Research*, **2022**, 54, 015507	1.2	2
177	Computation of magnetohydrodynamic electro-osmotic modulated rotating squeezing flow with zeta potential effects. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 640, 128430	5.1	0
176	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	5.1	2
175	Low-Amplitude and High-Frequency Loading Influences Interstitial Fluid Flow in Osteogenesis Imperfecta Osteon. *Lecture Notes in Mechanical Engineering*, **2022**, 769-778	0.4	0
174	Electromagnetic field induced alterations in fluid flow through lacuno-canalicular system of bone. *International Journal of Mechanical Sciences*, **2022**, 217, 107036	5.5	3
173	Numerical Investigation of Electro-osmotic Flow of Fluid in Tapered Microchannel. *Lecture Notes in Electrical Engineering*, **2022**, 741-748	0.2	1
172	Analysis of electroosmotic flow of silver-water nanofluid regulated by peristalsis using two different approaches for nanofluid. *Journal of Computational Science*, **2022**, 62, 101696	3.4	2
171	Fluid-Structure Interaction Modelling of Physiological Loading-Induced Canalicular Fluid Motion in Osteocyte Network. *Lecture Notes in Mechanical Engineering*, **2021**, 25-37	0.4	0
170	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	4.1	3
169	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*, **2021**, 184, 122249	4.9	2
168	Entropy analysis in ciliary transport of radiated hybrid nanofluid in presence of electromagnetohydrodynamics and activation energy. *Case Studies in Thermal Engineering*, **2021**, 28, 101665	5.6	8
167	Viscoelastic fluid flow driven by non-propagative membrane contraction. *Journal of Physics: Conference Series*, **2021**, 1849, 012018	0.3	
166	Heat stream in electroosmotic bio-fluid flow in straight microchannel via peristalsis. *International Communications in Heat and Mass Transfer*, **2021**, 123, 105180	5.8	10
165	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	2.6	13
164	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	4.1	9
163	Anatomical variations in cortical bone surface permeability: Tibia versus femur. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 113, 104122	4.1	5
162	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	4.1	24

161	Modelling the Impact of Melting and Nonlinear Radiation on Reactive Buongiorno Nanofluid Boundary Layer Flow from an Inclined Stretching Cylinder with Cross-diffusion and Curvature Effects. *Advances in Sustainability Science and Technology*, **2021**, 279-306		1
160	Thermal Analysis of Al2O3/H2O and Al2O3/C2H6O2 Elastico-Viscous Nanofluid Flow Driven by Peristaltic Wave Propagation with Electroosmotic and Magnetohydrodynamic Effects: Applications in Nanotechnological Energy Systems. *Advances in Sustainability Science and Technology*, **2021**, 223-259		2
159	A Theoretical Investigation on the Heat Transfer Ability of Water-Based Hybrid (AgAu) Nanofluids and Ag Nanofluids Flow Driven by Electroosmotic Pumping Through a Microchannel. *Arabian Journal for Science and Engineering*, **2021**, 46, 2911-2927	2.5	9
158	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	1.6	6
157	Bioengineered bioreactors: a review on enhancing biomethane and biohydrogen production by CFD modeling. *Bioengineered*, **2021**, 12, 6418-6433	5.7	1
156	Magnetohydrodynamics-based pumping flow model with propagative rhythmic membrane contraction. *European Physical Journal Plus*, **2020**, 135, 1	3.1	4
155	Numerical simulation of Electrokinetically Driven Peristaltic Pumping of Silver-Water Nanofluids in an asymmetric microchannel. *Chinese Journal of Physics*, **2020**, 68, 745-763	3.5	11
154	Entropy and exergy analysis on peristaltic pumping in a curved narrow channel. *Heat Transfer*, **2020**, 49, 3357-3373	3.1	8
153	Electro-osmotic flow of hydromagnetic dusty viscoelastic fluids in a microchannel propagated by peristalsis. *Journal of Molecular Liquids*, **2020**, 314, 113568	6	21
152	Signalling molecule transport analysis in lacunar-canalicular system. *Biomechanics and Modeling in Mechanobiology*, **2020**, 19, 1879-1896	3.8	7
151	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	3.6	13
150	Electrothermal transport of third-order fluids regulated by peristaltic pumping. *Journal of Biological Physics*, **2020**, 46, 45-65	1.6	8
149	Comparative study of hybrid nanofluids in microchannel slip flow induced by electroosmosis and peristalsis. *Applied Nanoscience (Switzerland)*, **2020**, 10, 1693-1706	3.3	34
148	ELECTRO-OSMOTIC FLOW IN A MICROCHANNEL CONTAINING A POROUS MEDIUM WITH COMPLEX WAVY WALLS. *Journal of Porous Media*, **2020**, 23, 477-495	2.9	6
147	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	0.6	6
146	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	2.6	2
145	3D Bioconvective multiple slip flow of chemically reactive Casson nanofluid with gyrotactic micro-organisms. *Heat Transfer - Asian Research*, **2020**, 49, 135-153	2.8	43
144	3D MHD cross flow over an exponential stretching porous surface. *Heat Transfer*, **2020**, 49, 1256-1280	3.1	7

143	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	4.5	12
142	Convective heat transfer and double diffusive convection in ionic nanofluids flow driven by peristalsis and electromagnetohydrodynamics **2020**, 94, 1		16
141	Electro-osmotic nanofluid flow in a curved microchannel. *Chinese Journal of Physics*, **2020**, 67, 544-558	3.5	12
140	Thermal, microrotation, electromagnetic field and nanoparticle shape effects on Cu-CuO/blood flow in microvascular vessels. *Microvascular Research*, **2020**, 132, 104065	3.7	49
139	Blood-based graphene oxide nanofluid flow through capillary in the presence of electromagnetic fields: A Sutterby fluid model. *Microvascular Research*, **2020**, 132, 104062	3.7	21
138	Pumping flow model for couple stress fluids with a propagative membrane contraction. *International Journal of Mechanical Sciences*, **2020**, 188, 105949	5.5	14
137	Numerical study of electroosmosis-induced alterations in peristaltic pumping of couple stress hybrid nanofluids through microchannel. *Indian Journal of Physics*, **2020**, 1	1.4	23
136	Study of EDL phenomenon in Peristaltic pumping of a Phan-Thien-Tanner Fluid through asymmetric channel **2020**, 32, 271-285		4
135	Electrokinetic membrane pumping flow model in a microchannel. *Physics of Fluids*, **2020**, 32, 082004	4.4	8
134	Numerical study of the electroosmotic flow of Al2O3□H3OH Sisko nanofluid through a tapered microchannel in a porous environment. *Applied Nanoscience (Switzerland)*, **2020**, 10, 4161-4176	3.3	14
133	Analysis of entropy generation in biomimetic electroosmotic nanofluid pumping through a curved channel with joule dissipation. *Thermal Science and Engineering Progress*, **2020**, 15, 100424	3.6	34
132	Cilia-assisted hydromagnetic pumping of biorheological couple stress fluids. *Propulsion and Power Research*, **2019**, 8, 221-233	3.6	26
131	Analysis of double diffusive convection in electroosmosis regulated peristaltic transport of nanofluids. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 535, 122148	3.3	34
130	Nanofluids flow driven by peristaltic pumping in occurrence of magnetohydrodynamics and thermal radiation. *Materials Science in Semiconductor Processing*, **2019**, 100, 290-300	4.3	38
129	Computer modelling of peristalsis-driven intrauterine fluid flow in the presence of electromagnetohydrodynamics. *European Physical Journal Plus*, **2019**, 134, 1	3.1	7
128	Canalicular fluid flow induced by loading waveforms: A comparative analysis. *Journal of Theoretical Biology*, **2019**, 471, 59-73	2.3	9
127	Heat transfer analysis on electroosmotic flow via peristaltic pumping in non-Darcy porous medium. *Thermal Science and Engineering Progress*, **2019**, 11, 254-262	3.6	34
126	Time-dependent analysis of electroosmotic fluid flow in a microchannel. *Journal of Engineering Mathematics*, **2019**, 114, 177-196	1.2	16

125	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	1.2	19
124	Nanoparticles shape effects on peristaltic transport of nanofluids in presence of magnetohydrodynamics. *Microsystem Technologies*, **2019**, 25, 283-294	1.7	25
123	Thermal slip and radiative heat transfer effects on electro-osmotic magnetonanoliquid peristaltic propulsion through a microchannel. *Heat Transfer - Asian Research*, **2019**, 48, 2882-2908	2.8	28
122	Elastic Properties of CNT-Reinforced Silver Nanocomposites Using FEM. *Springer Proceedings in Physics*, **2019**, 365-378	0.2	
121	Peristaltic Pumping of Nanofluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow. *Symmetry*, **2019**, 11, 868	2.7	65
120	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	5.5	35
119	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	3.6	13
118	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	8.1	50
117	Electroosmosis modulated transient blood flow in curved microvessels: Study of a mathematical model. *Microvascular Research*, **2019**, 123, 25-34	3.7	32
116	On the propulsion of micropolar fluid inside a channel due to ciliary induced metachronal wave. *Applied Mathematics and Computation*, **2019**, 347, 225-235	2.7	18
115	Electroosmotic flow of pseudoplastic nanoliquids via peristaltic pumping. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2019**, 41, 1	2	35
114	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	2.3	16
113	Three-layered electro-osmosis modulated blood flow through a microchannel. *European Journal of Mechanics, B/Fluids*, **2018**, 72, 391-402	2.4	15
112	Mathematical modelling of pressure-driven micropolar biological flow due to metachronal wave propulsion of beating cilia. *Mathematical Biosciences*, **2018**, 301, 121-128	3.9	27
111	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	6	57
110	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	4.6	54
109	Joule heating and zeta potential effects on peristaltic blood flow through porous micro vessels altered by electrohydrodynamic. *Microvascular Research*, **2018**, 117, 74-89	3.7	31
108	Study of microvascular non-Newtonian blood flow modulated by electroosmosis. *Microvascular Research*, **2018**, 117, 28-36	3.7	42

107	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	1.6	29
106	Analytical approach to entropy generation and heat transfer in CNT-nanofluid dynamics through a ciliated porous medium. *Journal of Hydrodynamics*, **2018**, 30, 296-306	3.3	21
105	Numerical simulation of heat transfer in blood flow altered by electroosmosis through tapered micro-vessels. *Microvascular Research*, **2018**, 118, 162-172	3.7	39
104	Unsteady viscous flow driven by the combined effects of peristalsis and electro-osmosis. *AEJ - Alexandria Engineering Journal*, **2018**, 57, 1349-1359	6.1	16
103	Evaluation of thermal, morphological and flame-retardant properties of thermoplastic polyurethane/polyphosphazene blends. *Polymer Bulletin*, **2018**, 75, 2415-2430	2.4	16
102	Modeling transient magnetohydrodynamic peristaltic pumping of electroconductive viscoelastic fluids through a deformable curved channel. *Journal of Engineering Mathematics*, **2018**, 111, 127-143	1.2	22
101	Electroosmosis modulated biomechanical transport through asymmetric microfluidics channel. *Indian Journal of Physics*, **2018**, 92, 1229-1238	1.4	31
100	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	2	8
99	Electroosmotic flow of biorheological micropolar fluids through microfluidic channels **2018**, 30, 89-98		33
98	Numerical investigation of magnetic nanofluids flow over rotating disk embedded in a porous medium. *Thermal Science*, **2018**, 22, 2883-2895	1.2	13
97	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	2.8	13
96	Electro-osmosis Modulated Viscoelastic Embryo Transport in Uterine Hydrodynamics: Mathematical Modelling. *Journal of Biomechanical Engineering*, **2018**,	2.1	23
95	Electroosmosis modulated peristaltic biorheological flow through an asymmetric microchannel: mathematical model. *Meccanica*, **2018**, 53, 2079-2090	2.1	31
94	Synthesis and evaluation of catalytic curing behavior of novel nitrile-functionalized benzoxazine for phthalonitrile resins. *Polymer Bulletin*, **2018**, 75, 3781-3800	2.4	8
93	Mathematical Study of Peristalsis in the Presence of Electrokinetic Transport in Parallel Plate Microchannel. *Lecture Notes in Mechanical Engineering*, **2018**, 273-281	0.4	
92	Thermal radiation effects on electroosmosis modulated peristaltic transport of ionic nanoliquids in biomicrofluidics channel. *Journal of Molecular Liquids*, **2018**, 249, 843-855	6	56
91	Thermally developed peristaltic propulsion of magnetic solid particles in biorheological fluids. *Indian Journal of Physics*, **2018**, 92, 423-430	1.4	46
90	Peristaltic pumping through porous medium in presence of electric double layer. *MATEC Web of Conferences*, **2018**, 192, 02043	0.3	4

89	Transient peristaltic diffusion of nanofluids: A model of micropumps in medical engineering. *Journal of Hydrodynamics*, **2018**, 30, 1001-1011	3.3	19
88	Investigation on Loading-Induced Fluid Flow in Osteogenesis Imperfecta Bone **2018**,		2
87	Alterations in peristaltic pumping of Jeffery nanoliquids with electric and magnetic fields. *Meccanica*, **2018**, 53, 3719-3738	2.1	14
86	Numerical Simulation of Nanoparticles with Variable Viscosity over a Stretching Sheet **2018**,		3
85	ANALYTICAL STUDY OF ELECTRO-OSMOSIS MODULATED CAPILLARY PERISTALTIC HEMODYNAMICS. *Journal of Mechanics in Medicine and Biology*, **2017**, 17, 1750052	0.7	30
84	Nanostructures study of CNT nanofluids transport with temperature-dependent variable viscosity in a muscular tube. *European Physical Journal Plus*, **2017**, 132, 1	3.1	14
83	Electro-magneto-hydrodynamic peristaltic pumping of couple stress biofluids through a complex wavy micro-channel. *Journal of Molecular Liquids*, **2017**, 236, 358-367	6	69
82	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	6.9	8
81	Electro-osmotic flow of couple stress fluids in a micro-channel propagated by peristalsis. *European Physical Journal Plus*, **2017**, 132, 1	3.1	51
80	Electro-kinetically driven peristaltic transport of viscoelastic physiological fluids through a finite length capillary: Mathematical modeling. *Mathematical Biosciences*, **2017**, 283, 155-168	3.9	35
79	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	3.1	14
78	MHD 3D free convective flow of nanofluid over an exponentially stretching sheet with chemical reaction. *Advanced Powder Technology*, **2017**, 28, 2159-2166	4.6	46
77	Electrothermal Transport in Biological Systems: An Analytical Approach for Electrokinetically Modulated Peristaltic Flow. *Journal of Thermal Science and Engineering Applications*, **2017**, 9,	1.9	15
76	Computer modelling of electro-osmotically augmented three-layered microvascular peristaltic blood flow. *Microvascular Research*, **2017**, 114, 65-83	3.7	35
75	NUMERICAL STUDY OF OXYGEN DIFFUSION FROM CAPILLARY TO TISSUES DURING HYPOXIA WITH EXTERNAL FORCE EFFECTS. *Journal of Mechanics in Medicine and Biology*, **2017**, 17, 1750027	0.7	2
74	3D free convective MHD flow of nanofluid over permeable linear stretching sheet with thermal radiation. *Powder Technology*, **2017**, 315, 205-215	5.2	112
73	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	3.5	29
72	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	4.9	67

71	Nanoparticle shapes effects on unsteady physiological transport of nanofluids through a finite length non-uniform channel. *Results in Physics*, **2017**, 7, 2477-2484	3.7	17
70	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	3.6	39
69	Physical hydrodynamic propulsion model study on creeping viscous flow through a ciliated porous tube **2017**, 88, 1		14
68	Variable-viscosity thermal hemodynamic slip flow conveying nanoparticles through a permeable-walled composite stenosed artery. *European Physical Journal Plus*, **2017**, 132, 1	3.1	17
67	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	4.6	27
66	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	2.5	78
65	Study of heat transfer on physiological driven movement with CNT nanofluids and variable viscosity. *Computer Methods and Programs in Biomedicine*, **2016**, 136, 21-9	6.9	12
64	Thermally developing MHD peristaltic transport of nanofluids with velocity and thermal slip effects. *European Physical Journal Plus*, **2016**, 131, 1	3.1	15
63	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	5.1	52
62	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	2.9	50
61	Electroosmosis-modulated peristaltic transport in microfluidic channels. *Physics of Fluids*, **2016**, 28, 052002	2.1	88
60	Electrokinetic transport in unsteady flow through peristaltic microchannel **2016**,		2
59	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	1.7	12
58	MODELING NANOPARTICLE GEOMETRY EFFECTS ON PERISTALTIC PUMPING OF MEDICAL MAGNETOHYDRODYNAMIC NANOFLUIDS WITH HEAT TRANSFER. *Journal of Mechanics in Medicine and Biology*, **2016**, 16, 1650088	0.7	26
57	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	43
56	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	0.7	20
55	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	0.7	17
54	Flow Characteristics of Distinctly Viscous Multilayered Intestinal Fluid Motion. *Applied Bionics and Biomechanics*, **2015**, 2015, 515241	1.6	3

53	Peristaltic Creeping Flow of Power Law Physiological Fluids through a Nonuniform Channel with Slip Effect. *Applied Bionics and Biomechanics*, **2015**, 2015, 152802	1.6	20
52	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, 1648-57	2.1	8
51	Peristaltic flow of couple stress fluid through uniform porous medium. *Applied Mathematics and Mechanics (English Edition)*, **2014**, 35, 469-480	3.2	25
50	Non-steady peristaltic propulsion with exponential variable viscosity: a study of transport through the digestive system. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17, 591-603	2.1	3
49	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	1.7	16
48	Peristaltic propulsion of generalized Burgers' fluids through a non-uniform porous medium: a study of chyme dynamics through the diseased intestine. *Mathematical Biosciences*, **2014**, 248, 67-77	3.9	46
47	Homotopy semi-numerical simulation of peristaltic flow of generalised Oldroyd-B fluids with slip effects. *Computer Methods in Biomechanics and Biomedical Engineering*, **2014**, 17, 433-42	2.1	39
46	A study on peristaltic flow of nanofluids: Application in drug delivery systems. *International Journal of Heat and Mass Transfer*, **2014**, 70, 61-70	4.9	204
45	Mathematical Modelling of Peristaltic Pumping of Nano-Fluids. *Simulation Foundations, Methods and Applications*, **2014**, 69-95	0.6	5
44	Transient magneto-peristaltic flow of couple stress biofluids: a magneto-hydro-dynamical study on digestive transport phenomena. *Mathematical Biosciences*, **2013**, 246, 72-83	3.9	38
43	Mathematical modelling of heat transfer effects on swallowing dynamics of viscoelastic food bolus through the human oesophagus. *International Journal of Thermal Sciences*, **2013**, 70, 41-53	4.1	41
42	Study of transient peristaltic heat flow through a finite porous channel. *Mathematical and Computer Modelling*, **2013**, 57, 1270-1283		57
41	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	4.1	54
40	A Mathematical Study on Three Layered Oscillatory Blood Flow Through Stenosed Arteries. *Journal of Bionic Engineering*, **2012**, 9, 119-131	2.7	35
39	Peristaltic Hemodynamic Flow of Couple-Stress Fluids Through a Porous Medium with Slip Effect. *Transport in Porous Media*, **2012**, 92, 559-572	3.1	40
38	Unsteady peristaltic transport of Maxwell fluid through finite length tube: application to oesophageal swallowing. *Applied Mathematics and Mechanics (English Edition)*, **2012**, 33, 15-24	3.2	12
37	A Numerical Study of Oscillating Peristaltic Flow of Generalized Maxwell Viscoelastic Fluids Through a Porous Medium. *Transport in Porous Media*, **2012**, 95, 337-348	3.1	44
36	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, 631-44	1.7	35

35	A MATHEMATICAL MODEL FOR BLOOD FLOW THROUGH INCLINED ARTERIES UNDER THE INFLUENCE OF INCLINED MAGNETIC FIELD. *Journal of Mechanics in Medicine and Biology*, **2012**, 12, 1250033	0.7	6
34	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	0.7	27
33	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	0.7	22
32	Numerical Study on Creeping Flow of Burgers Fluids through a Peristaltic Tube. *Journal of Fluids Engineering, Transactions of the ASME*, **2011**, 133,	2.1	17
31	A mathematical model for the peristaltic flow of chyme movement in small intestine. *Mathematical Biosciences*, **2011**, 233, 90-7	3.9	71
30	Effects of Non-Integral Number of PeristalticWaves Transporting Couple Stress Fluids in Finite Length Channels. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2011**, 66, 172-180	1.4	5
29	A Mathematical Model for Peristaltic Transport of Micro-Polar Fluids. *Applied Bionics and Biomechanics*, **2011**, 8, 279-293	1.6	14
28	A Mathematical Model for Swallowing of Concentrated Fluids in Oesophagus. *Applied Bionics and Biomechanics*, **2011**, 8, 309-321	1.6	8
27	A mathematical model for the movement of food bolus of varying viscosities through the esophagus. *Acta Astronautica*, **2011**, 69, 429-439	2.9	23
26	Peristaltic flow of MHD Jeffrey fluid through finite length cylindrical tube. *Applied Mathematics and Mechanics (English Edition)*, **2011**, 32, 1231-1244	3.2	32
25	Stokes flow of micro-polar fluids by peristaltic pumping through tube with slip boundary condition. *Applied Mathematics and Mechanics (English Edition)*, **2011**, 32, 1587-1598	3.2	7
24	Peristaltic transport of multilayered power-law fluids with distinct viscosities: a mathematical model for intestinal flows. *Journal of Theoretical Biology*, **2011**, 278, 11-9	2.3	20
23	Numerical and analytical simulation of peristaltic flows of generalized Oldroyd-B fluids. *International Journal for Numerical Methods in Fluids*, **2011**, 67, 1932-1943	1.9	27
22	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	1.6	25
21	Peristaltic transport of fractional Maxwell fluids in uniform tubes: Applications in endoscopy. *Computers and Mathematics With Applications*, **2011**, 62, 1116-1126	2.7	64
20	Peristaltic transport of a viscoelastic fluid in a channel. *Acta Astronautica*, **2011**, 68, 1379-1385	2.9	49
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