

M M Bhatti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

182
papers

6,946
citations

48
h-index

73
g-index

196
ext. papers

8,477
ext. citations

2.9
avg, IF

7.51
L-index

#	Paper	IF	Citations
182	Entropy analysis of thermally radiating MHD slip flow of hybrid nanoparticles (Au-Al ₂ O ₃ /Blood) through a tapered multi-stenosed artery. <i>Chemical Physics Letters</i> , 2022 , 790, 139348	2.5	11
181	Lie group analysis and robust computational approach to examine mass transport process using Jeffrey fluid model. <i>Applied Mathematics and Computation</i> , 2022 , 421, 126936	2.7	8
180	Three-dimensional nanofluid stirring with non-uniform heat source/sink through an elongated sheet. <i>Applied Mathematics and Computation</i> , 2022 , 421, 126927	2.7	6
179	Numerical experiment to examine activation energy and bi-convection Carreau nanofluid flow on an upper paraboloid porous surface: Application in solar energy. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102029	4.7	9
178	Radiative bioconvection nanofluid squeezing flow between rotating circular plates: Semi-numerical study with the DTM-Padé approach. <i>Modern Physics Letters B</i> , 2022 , 36,	1.6	3
177	Hybrid (Au-TiO ₂) nanofluid flow over a thin needle with magnetic field and thermal radiation: dual solutions and stability analysis. <i>Microfluidics and Nanofluidics</i> , 2022 , 26, 1	2.8	6
176	Mixed Convective-Radiative Dissipative Magnetized Micropolar Nanofluid Flow over a Stretching Surface in Porous Media with Double Stratification and Chemical Reaction Effects: ADM-Padé Computation. <i>Journal of Mathematics</i> , 2022 , 2022, 1-19	1.2	6
175	Analysis of Metallic Nanoparticles (Cu, Al ₂ O ₃ , and SWCNTs) on Magnetohydrodynamics Water-Based Nanofluid through a Porous Medium. <i>Journal of Mathematics</i> , 2022 , 2022, 1-12	1.2	1
174	Computational Framework of Magnetized MgO-Ni/Water-Based Stagnation Nanoflow Past an Elastic Stretching Surface: Application in Solar Energy Coatings.. <i>Nanomaterials</i> , 2022 , 12,	5.4	13
173	Rheological Modeling of Metallic Oxide Nanoparticles Containing Non-Newtonian Nanofluids and Potential Investigation of Heat and Mass Flow Characteristics.. <i>Nanomaterials</i> , 2022 , 12,	5.4	4
172	Mixed Convection Flow over an Elastic, Porous Surface with Viscous Dissipation: A Robust Spectral Computational Approach. <i>Fractal and Fractional</i> , 2022 , 6, 263	3	2
171	Hybrid nanofluid flow towards an elastic surface with tantalum and nickel nanoparticles, under the influence of an induced magnetic field. <i>European Physical Journal: Special Topics</i> , 2021 , 1	2.3	16
170	Electro-magnetohydrodynamic flow and heat transfer of a third-grade fluid using a Darcy-Brinkman-Forchheimer model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 2623-2639	4.5	33
169	Bio-inspired peristaltic propulsion of hybrid nanofluid flow with Tantalum (Ta) and Gold (Au) nanoparticles under magnetic effects. <i>Waves in Random and Complex Media</i> , 2021 , 1-26	1.9	38
168	Swimming of Gyrotactic Microorganism in MHD Williamson nanofluid flow between rotating circular plates embedded in porous medium: Application of thermal energy storage. <i>Journal of Energy Storage</i> , 2021 , 103511	7.8	36
167	Sinusoidal motion of small particles through a Darcy-Brinkman-Forchheimer microchannel filled with non-Newtonian fluid under electro-osmotic forces. <i>Journal of Taibah University for Science</i> , 2021 , 15, 514-529	3	23
166	Spectral computation of reactive bi-directional hydromagnetic non-Newtonian convection flow from a stretching upper parabolic surface in non-Darcyporous medium. <i>International Journal of Modern Physics B</i> , 2021 ,	1.1	2

165	DarcyBrinkmanBorchheimer Model for Nano-Bioconvection Stratified MHD Flow through an Elastic Surface: A Successive Relaxation Approach. <i>Mathematics</i> , 2021 , 9, 2514	2.3	3
164	Slip Effects on Fe ₃ O ₄ -Nanoparticles in a Nanofluid Past a Nonlinear Stretching Surface. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 366-378	0.4	
163	Cilia-assisted flow of viscoelastic fluid in a divergent channel under porosity effects. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 1399-1412	3.8	6
162	A semigroup of contractions in elasticity of porous bodies. <i>Continuum Mechanics and Thermodynamics</i> , 2021 , 33, 2027-2037	3.5	5
161	Entropy Analysis on a Three-Dimensional Wavy Flow of EyringPowell Nanofluid: A Comparative Study. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-14	1.1	3
160	Bioconvection aspects in non-Newtonian three-dimensional Carreau nanofluid flow with CattaneoChristov model and activation energy. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1317	2.3	4
159	Magnetic force effects on peristaltic transport of hybrid bio-nanofluid (AuCu nanoparticles) with moderate Reynolds number: An expanding horizon. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 123, 105228	5.8	76
158	Biologically Inspired Intra-Uterine Nanofluid Flow under the Suspension of Magnetized Gold (Au) Nanoparticles: Applications in Nanomedicine. <i>Inventions</i> , 2021 , 6, 28	2.9	23
157	Bioconvection analysis for flow of Oldroyd-B nanofluid configured by a convectively heated surface with partial slip effects. <i>Surfaces and Interfaces</i> , 2021 , 23, 100982	4.1	27
156	Dissipative effects on a chemically and thermally radiative heat fluid flow past a shrinking porous sheet. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2021 , 66, 127-140	0.4	4
155	Stability analysis on the kerosene nanofluid flow with hybrid zinc/aluminum-oxide (ZnO-Al ₂ O ₃) nanoparticles under Lorentz force. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , ahead-of-print,	4.5	16
154	Non-uniform pumping flow model for the couple stress particle-fluid under magnetic effects. <i>Chemical Engineering Communications</i> , 2021 , 1-12	2.2	10
153	Bioconvection mechanism using third-grade nanofluid flow with CattaneoChristov heat flux model and Arrhenius kinetics. <i>International Journal of Modern Physics B</i> , 2021 , 35, 2150178	1.1	5
152	DarcyBorchheimer higher-order slip flow of EyringPowell nanofluid with nonlinear thermal radiation and bioconvection phenomenon. <i>Journal of Dispersion Science and Technology</i> , 2021 , 1-11	1.5	14
151	Simulation of convective MHD flow with inclusion of hybrid powders. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 1013-1022	4.1	7
150	Study of Arrhenius activation energy on the thermo-bioconvection nanofluid flow over a Riga plate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2029-2038	4.1	64
149	Numerical modeling of turbulent behavior of nanomaterial exergy loss and flow through a circular channel. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 973-981	4.1	17
148	Thermally developed coupled stress particlefluid motion with mass transfer and peristalsis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2515-2524	4.1	21

147	Biologically inspired thermal transport on the rheology of Williamson hydromagnetic nanofluid flow with convection: an entropy analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 144, 2187-2202	4.1	46
146	Numerical analysis of activation energy on MHD nanofluid flow with exponential temperature-dependent viscosity past a porous plate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2585-2596	4.1	31
145	Thermodynamic entropy of a magnetized Ree-Eyring particle-fluid motion with irreversibility process: A mathematical paradigm. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021 , 101, e202000186	1	26
144	PTT nanofluid flow with gold nanoparticles through a Stenotic Electro-Kinetic Aorta: A study on the cancer treatment. <i>Heat Transfer Research</i> , 2021 ,	3.9	7
143	Residual time of sinusoidal metachronal ciliary flow of non-Newtonian fluid through ciliated walls: fertilization and implantation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 609-630	3.8	17
142	Heat transfer effects on electro-magnetohydrodynamic Carreau fluid flow between two micro-parallel plates with Darcy-Brinkman-Borchheimer medium. <i>Archive of Applied Mechanics</i> , 2021 , 91, 1683-1695	2.2	24
141	Nonlinear nanofluid flow under the consequences of Lorentz forces and Arrhenius kinetics through a permeable surface: A robust spectral approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 124, 98-105	5.3	33
140	Magnetized bioconvection flow of Sutterby fluid characterized by the suspension of nanoparticles across a wedge with activation energy. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021 , e202000349	1	4
139	Recent Advances in Multiphase Flows in Engineering. <i>Mathematical Problems in Engineering</i> , 2021 , 2021, 1-3	1.1	
138	Parametric analysis and minimization of entropy generation in bioinspired magnetized non-Newtonian nanofluid pumping using artificial neural networks and particle swarm optimization. <i>Thermal Science and Engineering Progress</i> , 2021 , 24, 100930	3.6	10
137	Double-diffusion convective biomimetic flow of nanofluid in a complex divergent porous wavy medium under magnetic effects. <i>Journal of Biological Physics</i> , 2021 , 47, 477-498	1.6	6
136	Maxwell time-dependent nanofluid flow over a wedge covered with gyrotactic microorganism: an activation energy process. <i>International Journal of Ambient Energy</i> , 2021 , 1-11	2	9
135	Bioconvection Reiner-Rivlin Nanofluid Flow between Rotating Circular Plates with Induced Magnetic Effects, Activation Energy and Squeezing Phenomena. <i>Mathematics</i> , 2021 , 9, 2139	2.3	14
134	Bioconvection oblique motion of magnetized Oldroyd-B fluid through an elastic surface with suction/injection. <i>Chinese Journal of Physics</i> , 2021 , 73, 314-330	3.5	13
133	Numerical experiment of Reiner-Philippoff nanofluid flow subject to the higher-order slip features, activation energy, and bioconvection. <i>Partial Differential Equations in Applied Mathematics</i> , 2021 , 4, 100128	0.8	2
132	Insight into the Dynamics of Oldroyd-B Fluid Over an Upper Horizontal Surface of a Paraboloid of Revolution Subject to Chemical Reaction Dependent on the First-Order Activation Energy. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 6039-6048	2.5	14
131	Swimming of motile gyrotactic microorganisms and suspension of nanoparticles in a rheological Jeffery fluid with Newtonian heating along elastic surface. <i>Journal of Central South University</i> , 2021 , 28, 3279-3296	2.1	2
130	Analysis of Arrhenius Kinetics on Multiphase Flow between a Pair of Rotating Circular Plates. <i>Mathematical Problems in Engineering</i> , 2020 , 2020, 1-17	1.1	42

129	Entropy Analysis on the Blood Flow through Anisotropically Tapered Arteries Filled with Magnetic Zinc-Oxide (ZnO) Nanoparticles. <i>Entropy</i> , 2020 , 22,	2.8	72
128	A revised viscoelastic micropolar nanofluid model with motile micro-organisms and variable thermal conductivity. <i>Heat Transfer</i> , 2020 , 49, 3726-3741	3.1	12
127	On the decay of exponential type for the solutions in a dipolar elastic body. <i>Journal of Taibah University for Science</i> , 2020 , 14, 534-540	3	24
126	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
125	Swimming of micro-organism over an oscillatory stretched surface filled with a magnetic third-grade nanofluid: An application of activation energy. <i>Chinese Journal of Physics</i> , 2020 , 65, 64-74	3.5	9
124	Study of Activation Energy on the Movement of Gyrotactic Microorganism in a Magnetized Nanofluids Past a Porous Plate. <i>Processes</i> , 2020 , 8, 328	2.9	88
123	Numerical Investigation on the Swimming of Gyrotactic Microorganisms in Nanofluids through Porous Medium over a Stretched Surface. <i>Mathematics</i> , 2020 , 8, 380	2.3	56
122	Significance of bioconvection in chemical reactive flow of magnetized Carreau-Yasuda nanofluid with thermal radiation and second-order slip. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 1293-1306	4.1	52
121	Heat transfer of nano powder inside a porous tank with use of non-equilibrium approach. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104710	5.8	8
120	Numerical Modelling for Nanoparticle Thermal Migration with Effects of Shape of Particles and Magnetic Field Inside a Porous Enclosure. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020 , 45, 801	1.2	11
119	Numerical study of slip and radiative effects on magnetic Fe ₃ O ₄ -water-based nanofluid flow from a nonlinear stretching sheet in porous media with Soret and Dufour diffusion. <i>Modern Physics Letters B</i> , 2020 , 34, 2050026	1.6	39
118	Anomalous reactivity of thermo-bioconvective nanofluid towards oxytactic microorganisms. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020 , 41, 711-724	3.2	52
117	Effects of magnetic Reynolds number on swimming of gyrotactic microorganisms between rotating circular plates filled with nanofluids. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2020 , 41, 637-654	3.2	77
116	Hydrodynamics Interactions of Metachronal Waves on Particulate-Liquid Motion through a Ciliated Annulus: Application of Bio-Engineering in Blood Clotting and Endoscopy. <i>Symmetry</i> , 2020 , 12, 532	2.7	26
115	Head-on collision between capillary-gravity solitary waves. <i>Boundary Value Problems</i> , 2020 , 2020,	2.1	5
114	Oxytactic Microorganisms and Thermo-Bioconvection Nanofluid Flow Over a Porous Riga Plate with Darcy-Brinkman-Borchheimer Medium. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2020 , 45, 257-268	3.8	15
113	Entropy Generation in Magnetized Blood Flow Through a Finite Wavy Channel Under Slip Conditions. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2020 , 45, 419-429	3.8	8
112	HEAT TRANSFER IN MAGNETITE (Fe ₃ O ₄) NANOPARTICLES SUSPENDED IN CONVENTIONAL FLUIDS: REFRIGERANT-134A (C ₂ H ₂ F ₄), KEROSENE (C ₁₀ H ₂₂), AND WATER (H ₂ O) UNDER THE IMPACT OF DIPOLE. <i>Heat Transfer Research</i> , 2020 , 51, 217-232	3.9	32

111	Biologically inspired transport of solid spherical nanoparticles in an electrically-conducting viscoelastic fluid with heat transfer. <i>Thermal Science</i> , 2020 , 24, 1251-1260	1.2	4
110	Heat transfer on magnetohydrodynamic stagnation point flow through a porous shrinking/stretching sheet: A numerical study. <i>Thermal Science</i> , 2020 , 24, 1335-1344	1.2	4
109	Effects of Double Diffusion Convection on Third Grade Nanofluid through a Curved Compliant Peristaltic Channel. <i>Coatings</i> , 2020 , 10, 154	2.9	36
108	Mathematical Analysis on an Asymmetrical Wavy Motion of Blood under the Influence Entropy Generation with Convective Boundary Conditions. <i>Symmetry</i> , 2020 , 12, 102	2.7	40
107	Peristaltic propulsion of Jeffrey nano-liquid and heat transfer through a symmetrical duct with moving walls in a porous medium. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 545, 123788 ³⁻³		55
106	Magnetized peristaltic particle fluid propulsion with Hall and ion slip effects through a permeable channel. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 550, 123999	3.3	13
105	Differential transform solution for Hall and ion-slip effects on radiative-convective Casson flow from a stretching sheet with convective heating. <i>Heat Transfer</i> , 2020 , 49, 872-888	3.1	25
104	Bioconvection in the Rheology of Magnetized Couple Stress Nanofluid Featuring Activation Energy and Wuß Slip. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2020 , 45, 81-95	3.8	78
103	Intra-uterine particle fluid motion through a compliant asymmetric tapered channel with heat transfer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 144, 2259	4.1	43
102	Some results in Moore-Gibson-Thompson thermoelasticity of dipolar bodies. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e202000090	1	7
101	Influence of bioconvection on Maxwell nanofluid flow with the swimming of motile microorganisms over a vertical rotating cylinder. <i>Chinese Journal of Physics</i> , 2020 , 68, 558-577	3.5	21
100	DuanBach Approach to Study Al ₂ O ₃ -Ethylene Glycol C ₂ H ₆ O ₂ Nanofluid Flow Based upon KKL Model. <i>Inventions</i> , 2020 , 5, 45	2.9	23
99	Swimming of Motile Gyrotactic Microorganisms and Nanoparticles in Blood Flow Through Anisotropically Tapered Arteries. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	95
98	Hydroelastic solitary wave during the head-on collision process in a stratified fluid. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 6135-6148 ¹⁻²	1.3	5
97	Simultaneous influence of thermo-diffusion and diffusion-thermo on non-Newtonian hyperbolic tangent magnetised nanofluid with Hall current through a nonlinear stretching surface 2019 , 93, 1		28
96	New Insight into AuNP Applications in Tumour Treatment and Cosmetics through Wavy Annuli at the Nanoscale. <i>Scientific Reports</i> , 2019 , 9, 260	4.9	37
95	Metachronal propulsion of a magnetised particle-fluid suspension in a ciliated channel with heat and mass transfer. <i>Physica Scripta</i> , 2019 , 94, 115301	2.6	47
94	An application of Nwoguß Boussinesq model to analyze the head-on collision process between hydroelastic solitary waves. <i>Open Physics</i> , 2019 , 17, 177-191	1.3	6

93	Effects of CuAg hybrid nanoparticles on the momentum and thermal boundary layer flow over the wedge. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019 , 233, 1128-1136	1.5	19
92	Analytical Study of the Head-On Collision Process between Hydroelastic Solitary Waves in the Presence of a Uniform Current. <i>Symmetry</i> , 2019 , 11, 333	2.7	40
91	Entropy generation on the interaction of nanoparticles over a stretched surface with thermal radiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 570, 368-376	5.1	45
90	Effects of coagulation on the two-phase peristaltic pumping of magnetized prandtl biofluid through an endoscopic annular geometry containing a porous medium. <i>Chinese Journal of Physics</i> , 2019 , 58, 222-234	3.5	86
89	A comparative study on magnetic and non-magnetic particles in nanofluid propagating over a wedge. <i>Canadian Journal of Physics</i> , 2019 , 97, 277-285	1.1	48
88	Analysis of natural convective flow of non-Newtonian fluid under the effects of nanoparticles of different materials. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2019 , 233, 643-652	1.5	25
87	Macroscopic modeling for convection of Hybrid nanofluid with magnetic effects. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019 , 534, 122136	3.3	48
86	Analysis on the heat storage unit through a Y-shaped fin for solidification of NEPCM. <i>Journal of Molecular Liquids</i> , 2019 , 292, 111378	6	24
85	Analysis on the bioconvection flow of modified second-grade nanofluid containing gyrotactic microorganisms and nanoparticles. <i>Journal of Molecular Liquids</i> , 2019 , 291, 111231	6	114
84	Thermally developed FalknerSkkan bioconvection flow of a magnetized nanofluid in the presence of a motile gyrotactic microorganism: Buongiorno nanofluid model. <i>Physica Scripta</i> , 2019 , 94, 115304	2.6	93
83	On the Partition of Energies for the Backward in Time Problem of Thermoelastic Materials with a Dipolar Structure. <i>Symmetry</i> , 2019 , 11, 863	2.7	80
82	Numerical study of heat transfer and Hall current impact on peristaltic propulsion of particle-fluid suspension with compliant wall properties. <i>Modern Physics Letters B</i> , 2019 , 33, 1950439	1.6	113
81	EFFECT OF LORENTZ FORCES ON NANOFLUID FLOW INSIDE A POROUS ENCLOSURE WITH A MOVING WALL USING VARIOUS SHAPES OF CuO NANOPARTICLES. <i>Heat Transfer Research</i> , 2019 , 50, 697-715	3.9	4
80	STUDY OF HEAT AND MASS TRANSFER IN THE EYRINGBOWELL MODEL OF FLUID PROPAGATING PERISTALTICALLY THROUGH A RECTANGULAR COMPLIANT CHANNEL. <i>Heat Transfer Research</i> , 2019 , 50, 1539-1560	3.9	84
79	INFLUENCE OF EXTERNAL MAGNETIC SOURCE ON NANOFLUID TREATMENT IN A POROUS CAVITY. <i>Journal of Porous Media</i> , 2019 , 22, 1475-1491	2.9	9
78	NANOFLUID ELECTROHYDRODYNAMIC FORCED CONVECTION AND RADIATION INSIDE A POROUS ENCLOSURE. <i>Computational Thermal Sciences</i> , 2019 , 11, 475-487	1.9	2
77	BUOYANCY-DRIVEN CHEMICALIZED EMHD NANOFLUID FLOW THROUGH A STRETCHING PLATE WITH DARCYBRINKMANBORCHHEIMER POROUS MEDIUM. <i>Heat Transfer Research</i> , 2019 , 50, 1105-1126	3.9	4
76	Peristaltic Propulsion of Jeffrey Nanofluid with Thermal Radiation and Chemical Reaction Effects. <i>Inventions</i> , 2019 , 4, 68	2.9	11

75	Electromagnetohydrodynamic nanofluid flow past a porous Riga plate containing gyrotactic microorganism. <i>Neural Computing and Applications</i> , 2019 , 31, 1905-1913	4.8	25
74	The impact of impinging TiO ₂ nanoparticles in Prandtl nanofluid along with endoscopic and variable magnetic field effects on peristaltic blood flow. <i>Multidiscipline Modeling in Materials and Structures</i> , 2018 , 14, 530-548	2.2	60
73	The study of non-Newtonian nanofluid with hall and ion slip effects on peristaltically induced motion in a non-uniform channel.. <i>RSC Advances</i> , 2018 , 8, 7904-7915	3.7	90
72	Mathematical modeling of heat and mass transfer effects on MHD peristaltic propulsion of two-phase flow through a Darcy-Brinkman-Forchheimer porous medium. <i>Advanced Powder Technology</i> , 2018 , 29, 1189-1197	4.6	109
71	Interaction between blood and solid particles propagating through a capillary with slip effects. <i>Microvascular Research</i> , 2018 , 119, 38-46	3.7	10
70	Head-on Collision Between Two Hydroelastic Solitary Waves in Shallow Water. <i>Qualitative Theory of Dynamical Systems</i> , 2018 , 17, 103-122	0.8	10
69	Interaction of aluminum oxide nanoparticles with flow of polyvinyl alcohol solutions base nanofluids over a wedge. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 53-60	3.3	23
68	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
67	Mass transport on chemicalized fourth-grade fluid propagating peristaltically through a curved channel with magnetic effects. <i>Journal of Molecular Liquids</i> , 2018 , 258, 186-195	6	59
66	A mathematical model of MHD nanofluid flow having gyrotactic microorganisms with thermal radiation and chemical reaction effects. <i>Neural Computing and Applications</i> , 2018 , 30, 1237-1249	4.8	87
65	Peristaltic propulsion of particulate non-Newtonian Ree-Eyring fluid in a duct through constant magnetic field. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 1055-1060	6.1	18
64	Numerical study of radiative Maxwell viscoelastic magnetized flow from a stretching permeable sheet with the Cattaneo-Christov heat flux model. <i>Neural Computing and Applications</i> , 2018 , 30, 3467-3478	4.8	32
63	Aiding and opposing of mixed convection Casson nanofluid flow with chemical reactions through a porous Riga plate. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2018 , 232, 519-527	1.5	22
62	Study of heat and mass transfer on MHD WaltersB?nanofluid flow induced by a stretching porous surface. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 2435-2443	6.1	20
61	A robust numerical method for solving stagnation point flow over a permeable shrinking sheet under the influence of MHD. <i>Applied Mathematics and Computation</i> , 2018 , 316, 381-389	2.7	70
60	Electroosmosis modulated biomechanical transport through asymmetric microfluidics channel. <i>Indian Journal of Physics</i> , 2018 , 92, 1229-1238	1.4	31
59	ENTROPY GENERATION IN BLOOD FLOW WITH HEAT AND MASS TRANSFER FOR THE ELLIS FLUID MODEL. <i>Heat Transfer Research</i> , 2018 , 49, 747-760	3.9	6
58	COMPUTATIONAL STUDY OF MAGNETIZED BLOOD FLOW IN THE PRESENCE OF GYROTACTIC MICROORGANISMS PROPELLED THROUGH A PERMEABLE CAPILLARY IN A STRETCHING MOTION. <i>International Journal for Multiscale Computational Engineering</i> , 2018 , 16, 409-426	2.4	5

57	Heat and mass transfer analysis on MHD blood flow of Casson fluid model due to peristaltic wave. <i>Thermal Science</i> , 2018 , 22, 2439-2448	1.2	18
56	Analytical study on liquid-solid particles interaction in the presence of heat and mass transfer through a wavy channel. <i>Journal of Molecular Liquids</i> , 2018 , 250, 80-87	6	81
55	Thermally developed peristaltic propulsion of magnetic solid particles in biorheological fluids. <i>Indian Journal of Physics</i> , 2018 , 92, 423-430	1.4	46
54	Head-on collision between two hydroelastic solitary waves with Plotnikov-Toland's plate model. <i>Theoretical and Applied Mechanics Letters</i> , 2018 , 8, 384-392	1.8	5
53	Mass Transport with Asymmetric Peristaltic Propulsion Coated with Synovial Fluid. <i>Coatings</i> , 2018 , 8, 407	2.9	8
52	Transient Magneto-Squeezing Flow of NaCl-CNP Nanofluid over a Sensor Surface Inspired by Temperature Dependent Viscosity. <i>Defect and Diffusion Forum</i> , 2018 , 387, 600-614	0.7	6
51	Flow analysis of particulate suspension on an asymmetric peristaltic motion in a curved configuration with heat and mass transfer. <i>Mechanics and Industry</i> , 2018 , 19, 401	0.8	7
50	HEAT AND MASS TRANSFER ANALYSIS ON PERISTALTIC FLOW OF PARTICLE-FLUID SUSPENSION WITH SLIP EFFECTS. <i>Journal of Mechanics in Medicine and Biology</i> , 2017 , 17, 1750028	0.7	21
49	A New Numerical Simulation of MHD Stagnation-Point Flow Over a Permeable Stretching/Shrinking Sheet in Porous Media with Heat Transfer 2017 , 41, 779-785		24
48	Entropy Generation with nonlinear heat and Mass transfer on MHD Boundary Layer over a Moving Surface using SLM. <i>Nonlinear Engineering</i> , 2017 , 6,	3	17
47	Heat and mass transfer of two-phase flow with Electric double layer effects induced due to peristaltic propulsion in the presence of transverse magnetic field. <i>Journal of Molecular Liquids</i> , 2017 , 230, 237-246	6	136
46	Active method for nanofluid heat transfer enhancement by means of EHD. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 115-122	4.9	250
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