# Prakash Jayavel

List of Publications by Year
in descending order

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| 53 | 1,567 | 304743 | 315739 |
|---|---|---|---|
| papers | citations | 22 h-index | 38 g-index |

| 54 | 54 | 54 | 674 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Thermoâ€electrokinetic rotating nonâ€Newtonian hybrid nanofluid flow from an accelerating vertical surface. Heat Transfer, 2022, 51, 1746-1777. | 3.0 | 13 |
| 2 | Electroosmotic modulated unsteady squeezing flow with temperature- dependent thermal conductivity, electric and magnetic field effects. Journal of Physics Condensed Matter, 2022, , . | 1.8 | 1 |
| 3 | Computation of magnetohydrodynamic electro-osmotic modulated rotating squeezing flow with zeta potential effects. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128430. | 4.7 | 8 |
| 4 | Impact of the electromagnetic flow of an MHD Casson fluid over an oscillating porous plate. Heat Transfer, 2022, 51, 4053-4079. | 3.0 | 1 |
| 5 | Numerical study of electroosmosis-induced alterations in peristaltic pumping of couple stress hybrid nanofluids through microchannel. Indian Journal of Physics, 2021, 95, 2411-2421. | 1.8 | 47 |
| 6 | Heat transfer enhancement in radiative peristaltic propulsion of nanofluid in the presence of induced magnetic field. Numerical Heat Transfer; Part A: Applications, 2021, 79, 83-110. | 2.1 | 9 |
| 7 | 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. | 3.6 | 51 |
| 8 | Thermal Analysis of Î³Al2O3/H2O and Î³Al2O3/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. | 0.6 | 5 |
| 9 | Impact of electroosmotic flow on a Casson fluid driven by chemical reaction and convective boundary conditions. Heat Transfer, 2021, 50, 4993-5019. | 3.0 | 5 |
| 10 | A study of electroâ€osmotic and magnetohybrid nanoliquid flow via radiative heat transfer past an exponentially accelerated plate. Heat Transfer, 2021, 50, 4937-4960. | 3.0 | 8 |
| 11 | Influence of Electroosmosis Mechanism and Chemical Reaction on Convective Flow Over an Exponentially Accelerated Plate. International Journal of Applied and Computational Mathematics, 2021, 7, 1. | 1.6 | 2 |
| 12 | 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 |
| 13 | Convective heat transfer and double diffusive convection in ionic nanofluids flow driven by peristalsis and electromagnetohydrodynamics. Pramana - Journal of Physics, 2020, 94, 1. | 1.8 | 25 |
| 14 | Comparative analysis of Cu/blood and Cuâ€“CuO/blood nanofluids on a peristaltic flow governed by an asymmetric channel. Heat Transfer, 2020, 49, 4923-4944. | 3.0 | 12 |
| 15 | Comparative study of hybrid nanofluids in microchannel slip flow induced by electroosmosis and peristalsis. Applied Nanoscience (Switzerland), 2020, 10, 1693-1706. | 3.1 | 52 |
| 16 | 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 | 11 |
| 17 | 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 |
| 18 | Influences of shear stress on peristaltic transport of a non-Newtonian fluid in a micro asymmetric channel. AIP Conference Proceedings, 2019, , . | 0.4 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Peristaltic Pumping of Nanofluids through a Tapered Channel in a Porous Environment: Applications in Blood Flow. Symmetry, 2019, 11, 868. | 2.2 | 85 |
| 20 | Nanofluids flow driven by peristaltic pumping in occurrence of magnetohydrodynamics and thermal radiation. Materials Science in Semiconductor Processing, 2019, 100, 290-300. | 4.0 | 54 |
| 21 | Non â€“ linear blood flow analysis on MHD peristaltic motion of a Williamson fluid in a micro channel. AIP Conference Proceedings, 2019, , . | 0.4 | 6 |
| 22 | Computer modelling of peristalsis-driven intrauterine fluid flow in the presence of electromagnetohydrodynamics. European Physical Journal Plus, 2019, 134, 1. | 2.6 | 13 |
| 23 | 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. | 4.3 | 36 |
| 24 | 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. | 8.9 | 67 |
| 25 | Electroosmotic flow of pseudoplastic nanoliquids via peristaltic pumping. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1. | 1.6 | 59 |
| 26 | Thermal analysis for heat transfer enhancement in electroosmosis-modulated peristaltic transport of Sutterby nanofluids in a microfluidic vessel. Journal of Thermal Analysis and Calorimetry, 2019, 138, 1311-1326. | 3.6 | 73 |
| 27 | 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. | 4.9 | 77 |
| 28 | Numerical simulation of heat transfer in blood flow altered by electroosmosis through tapered micro-vessels. Microvascular Research, 2018, 118, 162-172. | 2.5 | 54 |
| 29 | Effect of magnetic field on peristaltic flow of a fourth grade fluid in a tapered asymmetric channel. Journal of King Saud University, Engineering Sciences, 2018, 30, 86-95. | 2.0 | 25 |
| 30 | Thermal radiation effects on electroosmosis modulated peristaltic transport of ionic nanoliquids in biomicrofluidics channel. Journal of Molecular Liquids, 2018, 249, 843-855. | 4.9 | 76 |
| 31 | Influence of Variable Viscosity on Peristaltic Motion of a Viscoelastic Fluid in a Tapered Microfluidic Vessel. International Journal of Engineering and Technology(UAE), 2018, 7, 49. | 0.3 | 3 |
| 32 | Effects of Magnetic field on Peristalsis transport of a Carreau Fluid in a tapered asymmetric channel. Journal of Physics: Conference Series, 2018, 1000, 012166. | 0.4 | 1 |
| 33 | Alterations in peristaltic pumping of Jeffery nanoliquids with electric and magnetic fields. Meccanica, 2018, 53, 3719-3738. | 2.0 | 17 |
| 34 | Effect of peristaltic flow of a third grade fluid in a tapered asymmetric channel. Journal of Physics: Conference Series, 2018, 1000, 012165. | 0.4 | 4 |
| 35 | ANALYTICAL INVESTIGATIONS OF DIFFUSION THERMO EFFECTS ON UNSTEADY FREE CONVECTION FLOW PAST AN ACCELERATED VERTICAL PLATE. Frontiers in Heat and Mass Transfer, 2018, 10, . | 0.2 | 3 |
| 36 | Stagnation Flow of Nanofluid Embedded with Dust Particles Over an Inclined Stretching Sheet with Induced Magnetic Field and Suction. Journal of Nanofluids, 2017, 6, 28-37. | 2.7 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Nonlinear peristaltic motion of a Jeffery nanofluid with shear stress and MHD effects. Mechanika, 2017, 23, . | 0.5 | 2 |
| 38 | Analysis of Peristaltic Motion of a Nanofluid with Wall Shear Stress, Microrotation, and Thermal Radiation Effects. Applied Bionics and Biomechanics, 2016, 2016, 1-15. | 1.1 | 8 |
| 39 | Nonlinear peristaltic motion of a Johnsonâ€“Segalman fluid in a tapered asymmetric channel. AEJ - Alexandria Engineering Journal, 2016, 55, 1607-1618. | 6.4 | 12 |
| 40 | Numerical approximations of nonlinear fractional differential difference equations by using modified He-Laplace method. AEJ - Alexandria Engineering Journal, 2016, 55, 645-651. | 6.4 | 21 |
| 41 | Convective boundary conditions effect on peristaltic flow of a MHD Jeffery nanofluid. Applied Nanoscience (Switzerland), 2016, 6, 323-335. | 3.1 | 37 |
| 42 | Influence of Thermal Radiation and Magnetic Field on Peristaltic Transport of a Newtonian Nanofluid in a Tapered Asymmetric Porous Channel. Journal of Nanofluids, 2016, 5, 363-374. | 2.7 | 4 |
| 43 | Effects of thermal radiation and chemical reactions on peristaltic flow of a Newtonian nanofluid under inclined magnetic field in a generalized vertical channel using homotopy perturbation method. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 259-272. | 1.5 | 25 |
| 44 | Analysis of Heat and Mass Transfer on MHD Peristaltic Flow through a Tapered Asymmetric Channel. Journal of Fluids, 2015, 2015, 1-9. | 1.4 | 22 |
| 45 | Influence of Heat Source, Thermal Radiation, and Inclined Magnetic Field on Peristaltic Flow of a Hyperbolic Tangent Nanofluid in a Tapered Asymmetric Channel. IEEE Transactions on Nanobioscience, 2015, 14, 385-392. | 3.3 | 43 |
| 46 | THE PERISTALTIC TRANSPORT OF CARREAU NANOFLUIDS UNDER EFFECT OF A MAGNETIC FIELD IN A TAPERED ASYMMETRIC CHANNEL: APPLICATION OF THE CANCER THERAPY. Journal of Mechanics in Medicine and Biology, 2015, 15, 1550030. | 0.7 | 39 |
| 47 | Peristaltic transport of a MHD Carreau fluid in a tapered asymmetric channel with permeable walls. International Journal of Biomathematics, 2015, 08, 1550054. | 2.9 | 25 |
| 48 | Effect of radiation and magnetic field on peristaltic transport of nanofluids through a porous space in a tapered asymmetric channel. Journal of Magnetism and Magnetic Materials, 2015, 378, 152-163. | 2.3 | 107 |
| 49 | Effects of thermal radiation parameter and magnetic field on the peristaltic motion of Williamson nanofluids in a tapered asymmetric channel. International Journal of Heat and Mass Transfer, 2015, 81, 234-245. | 4.8 | 151 |
| 50 | Diffusion-Thermo and Radiation Effects on Unsteady MHD Flow Through Porous Medium Past an Impulsively Started Infinite Vertical Plate with Variable Temperature and Mass Diffusion. Transport in Porous Media, 2013, 96, 135-151. | 2.6 | 15 |
| 51 | EFFECT OF CATTANEO-CHRISTOV HEAT FLUX ON NONLINEAR RADIATIVE MHD FLOW OF CASSON FLUID INDUCED BY A SEMI-INFINTE STRETCHING SURFACE. Frontiers in Heat and Mass Transfer, 0, 8, . | 0.2 | 2 |
| 52 | HEAT TRANSFER ON MHD NANOFLUID FLOW OVER A SEMI INFINITE FLAT PLATE EMBEDDED IN A POROUS MEDIUM WITH RADIATION ABSORPTION, HEAT SOURCE AND DIFFUSION THERMO EFFECT. Frontiers in Heat and Mass Transfer, 0, 9, . | 0.2 | 10 |
| 53 | Numerical analysis of electromagnetic squeezing flow through a parallel porous medium plate with impact of suction/injection. Waves in Random and Complex Media, 0, , 1-24. | 2.7 | 1 |