

LIST OF SCI/ SCIE PUBLICATION: 62

1. **Yadav, Pramod Kumar**, Roshan, M., Mathematical modeling of electroosmotically driven peristaltic propulsion due to transverse deflections of two periodically deformable curved tubes of unequal wavelengths, *Physics of Fluids*, 2024, (Accepted). (AIP Publisher) **(I.F.: 4.1, Q1)**
2. Kumar, A., and **Yadav, Pramod Kumar**, An inclined magnetic field and slip effect on heat and mass transfer analysis in the peristaltic flow of immiscible fluid through an asymmetric porous channel, *International Communications in Heat and Mass Transfer*, 2024 (Accepted). (Elsevier publisher) **(I.F.: 7.00, Q1)**
3. Yadav, N., Jaiswal, S., **Yadav, Pramod Kumar**, Two-phase Magnetohydrodynamic Blood flow Through Curved Porous Artery, *Physics of Fluids*, 2024, (Accepted). (AIP Publisher) **(I.F.: 4.1, Q1)**
4. **Yadav, Pramod Kumar**, Roshan, M., Mathematical modeling of creeping electromagneto-hydrodynamic peristaltic propulsion in an annular gap between sinusoidally deforming permeable and impermeable curved tubes, *Physics of Fluids* 36 (7), 071907, 2024. (AIP Publisher) **(I.F.: 4.1, Q1)**
5. **Yadav, Pramod Kumar**, Yadav, N., Impact of heat and mass transfer on the magnetohydrodynamic two-phase flow of couple stress fluids through a porous walled curved channel using Homotopy Analysis Method, *Chaos, Solitons & Fractals* 181, 114726, 2024. (Elsevier publishers) **(I.F.: 5.3, Q1)**
6. **Yadav, Pramod Kumar**, Yadav, N., Magnetohydrodynamic study of Micropolar fluid flow in the porous walled channel with variable viscosity and thermal conductivity: HAM Solution, *Chaos, Solitons & Fractals* 181, 114726, 2024. (Elsevier publishers) **(I.F.: 5.3, Q1)**
7. Kumar, A., and **Yadav, Pramod Kumar**, Heat and mass transfer analysis of non-miscible couple stress and micropolar fluids flow through a porous saturated channel, *ZAMM- Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte*, 2024, (Accepted), <https://doi.org/10.1002/zamm.202300635>. **(I.F.: 2.3, Q2)**
8. **Yadav, Pramod Kumar**, Goyal, P., SIR-Bass Modelling Approach to Quantify the Effects of Intervention Adoption on Disease Transmission, *International Journal of Biomathematics*, 2024, (Accepted). **(I.F.: 2.4, Q2)**
9. **Yadav, Pramod Kumar**, Roshan, M., Mathematical modeling of blood flow in an annulus porous region between two coaxial deformable tubes: An advancement to peristaltic endoscope, *Chinese Journal of Physics*, 88, 2024, 89-109. (Elsevier publishers) **(I.F.: 4.6, Q2)**
10. **Yadav, Pramod Kumar**, Roshan, M., Effect of peristaltic endoscope and heat transfer on the magnetohydrodynamic flow of non-Newtonian biviscosity fluid through an inclined

annulus: Homotopy perturbation approach, *Modern Physics Letters B*, 1-37, 2450498, 2024 (Accepted). (World Scientific publisher) **(I.F.: 1.8, Q3)**

11. **Yadav, Pramod Kumar**, and Srivastava, P., Impact of porous material and slip condition on the MHD flow of immiscible Couple stress-Newtonian fluids through an inclined channel: Head loss and pressure difference, *Chinese Journal of Physics*, 89, 2024, 1198-1221. (Elsevier publishers) **(I.F.: 4.6, Q2)**
12. **Yadav, Pramod Kumar**, Roshan, M., Filippov, A.N., A Hemodynamic Perspective to Analyze the Pulsatile Flow of Jeffrey Fluid through an Inclined Overlapped Stenosed Artery, *Colloid Journal*, 2024, (Accepted). (Springer publisher) **(I.F.: 1.4, Q4)**
13. **Yadav, Pramod Kumar**, Kumar, A., and Chamkha, A.J., Heat and mass transfer analysis of non- miscible couple stress fluid in a porous saturated channel, *International Journal of Modern Physics B*, 38(18), 2450227, 2024. <https://doi.org/10.1142/S0217979224502278> (World Scientific Publisher) **(I.F.: 2.6, Q3)**
14. Yadav, S., Yadav, S., **Yadav, Pramod Kumar**, The mixed convection thermally radiated hybrid nanofluid flow through an inclined permeable shrinking plate with slip condition and inclined magnetic effect, *Chinese Journal of Physics*, 89, 1041-1050, 2024. (Elsevier publishers) **(I.F.: 4.6, Q2)**
15. **Yadav, Pramod Kumar**, Yadav, N., A study on the flow of couple stress fluid in a porous curved channel, *Computers & Mathematics with Applications*, 152, 2023, 1-15. (Elsevier publishers) **(I.F.: 2.9, Q1)**
16. Kumar, A. and **Yadav, Pramod Kumar**, Heat and mass transfer in peristaltic flow of MHD non-miscible micropolar and Newtonian fluid through a porous saturated asymmetric channel, *Waves in Random and Complex Media*, 1-45, 2023. (Taylor & Francis Publisher)
<https://doi.org/10.1080/17455030.2023.2252946>. **(I.F.: 4.05, Q1)**
17. **Yadav, Pramod Kumar**, Verma, A.K., and Chamkha, A.J., Magnetohydrodynamics of immiscible Newtonian fluids in porous regions of different variable permeability functions, *Journal of Petroleum Science and Engineering* 220, 1-13 (111113), 2023. (Elsevier publisher)
(<https://doi.org/10.1016/j.petrol.2022.111113>) **(I.F.: 5.168, Q1)**
18. **Yadav, Pramod Kumar**, Yadav, N., Entropy generation analysis in micropolar-couple stress fluid's flow in an inclined porous channel using Homotopy Analysis Method, *Chinese Journal of Physics*, 86, 2023, 469-496. (Elsevier publishers) **(I.F.: 4.6, Q2)**
19. **Yadav, Pramod Kumar**, Goyal, P., Treatment seeking dilemma for tuberculosis as timed strategic prisoner's dilemma game, *Physica A: Statistical Mechanics and its Applications*, 632, 2023, doi.org/10.1016/j.physa.2023.129297. (Elsevier publishers) **(I.F.: 2.8, Q2)**
20. Verma, A., Sumelka, W., **Yadav, Pramod Kumar**, The Numerical Solution of Nonlinear Fractional Lienard and Duffing Equations Using Orthogonal Perceptron, *Symmetry* 2023, 15, 1753. <https://doi.org/10.3390/sym15091753>. **(I.F.: 2.2, Q2)**

21. Kumar, A. and **Yadav, Pramod Kumar**, Heat and mass transfer analysis for MHD non-miscible micropolar and Newtonian fluid flow in a rectangular porous channel, ZAMM-Journal of Applied Mathematics and Mechanics, 2023 (Accepted). (John Wiley Publisher) **(I.F.: 2.3, Q2)**
22. Jaiswal, S., **Yadav, Pramod Kumar**, Physics of Generalized Couette Flow of Immiscible Fluids in anisotropic Porous Medium, International Journal of Modern Physics B, 2023 (Accepted). <https://doi.org/10.1002/zamm.202200589>. (World Scientific Publisher) **(I.F.: 2.6, Q3)**
23. Kumar, A. and **Yadav, Pramod Kumar**, Entropy generation analysis of non-miscible couple stress and Newtonian fluid in an inclined porous channel with variable flow properties: HAM Analysis, International Journal of Modern Physics B, 2023 (Accepted). <https://doi.org/10.1142/S0217979224503909> (World Scientific Publisher) **(I.F.: 2.6, Q3)**
24. **Yadav, Pramod Kumar**, Verma, A. Kumar, Analysis of the MHD flow of immiscible fluids with variable viscosity in an inclined channel, Journal of Applied Mechanics and Technical Physics, 64, 618–627, 2023. (Springer publisher) **(I.F.: 0.5, Q3)**
25. **Yadav, Pramod Kumar**, Kumar, A., and Filippov, A.N., Analysis of Entropy Production of Immiscible Micropolar and Newtonian Fluids Flow through a Channel: Effect of Thermal Radiation and Magnetic Field, Colloid Journal, 85 (1), 95-113, 2023. (Springer publisher) **(I.F.: 1.4, Q4)**
26. Pandey, R. and **Yadav, Pramod Kumar**, Effect of Reynolds number and blood viscosity models on the left coronary artery with multiple stenoses, Physics of Fluids 34 (9), 091903, 2022. <https://doi.org/10.1063/5.0099822>. (AIP Publisher) **(I.F.: 4.1, Q1)**
27. **Yadav, Pramod Kumar**, Kumar, A., Sapa, S. EI., Chamkha, A.J., Impact of thermal radiation and oriented magnetic field on the flow of two immiscible fluids through porous media with different porosity, Waves in Random and Complex Media, 1-33, 2022. (Taylor & Francis Publisher) <https://doi.org/10.1080/17455030.2022.2118897>. **(I.F.: 4.05, Q1)**
28. Jaiswal, S., **Yadav, Pramod Kumar**, Analysis on Couette flow of a micropolar fluid through a circular annulus filled with the porous medium, Microfluidics and Nanofluidics 26 (12), 1-14 (100), 2022. (Springer publisher) <https://doi.org/10.1007/s10404-022-02601-8>. **(I.F.: 2.3, Q3)**
29. **Yadav, Pramod Kumar**, Verma, A.K., Analysis of two non-miscible electrically conducting micropolar fluid flow through an inclined porous channel: Influence of magnetic field, ZAMM-Journal of Applied Mathematics and Mechanics, 2022. (John Wiley Publisher) (<https://doi.org/10.1002/zamm.202200047>). **(I.F.: 2.3, Q2)**
30. **Yadav, Pramod Kumar** and Kumar, A., An inclined magnetic field effect on entropy production of non-miscible Newtonian and micropolar fluid in a rectangular conduit, International Communications in Heat and Mass Transfer, 124, 1-13, 2021 (105266). (Elsevier publisher) **(I.F.: 7.00, Q1)**

31. **Yadav, Pramod Kumar** and Verma, A.K., Analysis of two immiscible Newtonian and micropolar fluid flow through an inclined porous channel, *Mathematical Methods in the Applied Sciences*, <https://doi.org/10.1002/mma.7884>, 2021. (Wiley publisher) **(I.F.: 2.1, Q2)**
32. **Yadav, Pramod Kumar**, Jaiswal, S., Puchakatla, J.Y., Yadav, M.K., Flow through membrane built up by impermeable spheroid coated with porous layer under the influence of uniform magnetic field: effect of stress jump condition, *The European Physical Journal Plus* 136 (1), 1-34, 2021. (Springer publisher) **(I.F.: 3.4, Q2)**
33. **Yadav, Pramod Kumar**, Puchakatla, J.Y., Jaiswal, S., An Analytical Solution of Micropolar-Newtonian Fluid Flow Through Annular Porous Regions, *National Academy Science Letters* 43 (5), 457-462, 2020. (Springer publisher) **(I.F.: 1.1, Q3)**
34. **Yadav, Pramod Kumar**, Verma, A.K., Analysis of immiscible Newtonian and non-Newtonian micropolar fluid flow through porous cylindrical pipe enclosing a cavity, *The European Physical Journal Plus* 135 (8), 1-35, 2020. (Springer publisher) **(I.F.: 3.4, Q2)**
35. **Yadav, Pramod Kumar**, Tiwari, A., Singh, P., Motion through spherical droplet with non-homogenous porous layer in spherical container, *Applied Mathematics and Mechanics (ENGLISH EDITION)* 41 (7), 1069–1082, 2020. (Springer publisher) **(I.F.: 4.4, Q1)**
36. **Yadav, Pramod Kumar**, Influence of magnetic field on the Stokes flow through porous spheroid: Hydrodynamic permeability of a membrane using cell model technique, *International Journal of Fluid Mechanics Research (Begell House publisher)* 47 (3), 273–290, 2020. **(I.F.:1.1, Q3)**
37. **Yadav, Pramod Kumar**, Jaiswal, S., Puchakatla, J.Y., Filippov, A.N., Poiseuille Flow of Micropolar-Newtonian Fluid through Concentric Pipes Filled with Porous Medium, *Colloid Journal* 82, 333-341, 2020. (Springer publisher) **(I.F.: 1.4, Q4)**
38. Jaiswal, S., **Yadav, Pramod Kumar**, Influence of magnetic field on the Poiseuille flow of immiscible Newtonian fluids through highly porous medium, *Journal of the Brazilian Society of Mechanical Sciences and Engineering* 42 (4), Article number: 188. 2020. (Springer publisher) **(I.F.: 2.2, Q2)**
39. Yadav, Pramod Kumar, Sharma, B.D. and Filippov, A.N., Oscillatory Viscoelastic Model of Blood Flow in Stenotic Artery, *Colloid Journal* 82 (5), 617-625, 2020. (Springer publisher) **(I.F.: 1.4, Q4)**
40. **Yadav, Pramod Kumar**, Jaiswal, S., Puchakatla, J.Y., Micropolar fluid flow through the membrane composed of impermeable cylindrical particles coated by porous layer under the effect of magnetic field, *Mathematical Methods in the Applied Sciences* 43 (4), 1925-1937, 2020. (Wiley publisher) **(I.F.: 3.007, Q1)**

41. Jaiswal, S., **Yadav, Pramod Kumar**, Flow of Micropolar–Newtonian Fluids through the Composite Porous Layered Channel with Movable Interfaces, *Arabian Journal for Science and Engineering* 45 (2), 921-934, 2020. (Springer publisher) (I.F.: 2.807, Q1)
42. Khanukaeva, D.Y., Filippov, A.N., **Yadav, Pramod Kumar** and Tiwari, A., Creeping flow of micropolar fluid through a swarm of cylindrical cells with porous layer (membrane), *Journal of Molecular Liquids*, 294, 111558, 2019. (Elsevier publishers) (I.F.: 6, Q1)
43. **Yadav, Pramod Kumar**, Singh, P. Tiwari, A. and Deo, S., Stokes flow through a membrane built up by nonhomogeneous porous cylindrical particles, *Journal of Applied Mechanics and Technical Physics* 60 (5), 816-826, 2019. (Springer publisher) (I.F.: 0.5, Q3)
44. Jaiswal, S., **Yadav, Pramod Kumar**, A micropolar-Newtonian blood flow model through a porous layered artery in the presence of a magnetic field, *Physics of Fluids* 31 (7), 071901, 2019. (AIP Publishing (United States)) (I.F.: 4.1, Q1)
45. Khanukaeva, D.Y., Filippov, A.N., **Yadav, Pramod Kumar** and Tiwari, A., Creeping flow of micropolar fluid parallel to the axis of cylindrical cells with porous layer, **European Journal of Mechanics/ B Fluids**, 76, 73-80, 2019. (Elsevier publishers) (I.F.: 2.6, Q2)
46. Sharma, B.D., **Yadav, Pramod Kumar**, A Mathematical Model of Blood Flow in Narrow Blood Vessels in Presence of Magnetic Field, **National Academy Science Letters**, 42 (3), 239-243, 2019. (Springer publisher) (I.F.: 1.1, Q3)
47. **Yadav, Pramod Kumar**, Motion through a non-homogeneous porous medium: Hydrodynamic permeability of a membrane composed of cylindrical particles, **The European Physical Journal Plus**, 133, 1-26, 2018. (Springer publisher) (I.F.: 3.4, Q2)
48. **Yadav, Pramod Kumar**, Sneha Jaiswal, Taimoor Asim and Rakesh Mishra, Influence of a magnetic field on the flow of a micropolar fluid sandwiched between Newtonian fluid layers through a porous medium, **The European Physical Journal Plus**, 133, 247-259, 2018. (Springer publisher) (I.F.: 3.4, Q2)
49. **Yadav, Pramod Kumar**, Jaiswal, S. and Sharma, B.D., A Mathematical Model of Micropolar Fluid in two phase immiscible fluid flow through porous channel, **Applied Mathematics and Mechanics**, 39 (7), 993–1006, 2018. (Springer publisher) (I.F.: 4.4, Q1)
50. **Yadav, Pramod Kumar** and Jaiswal, S, Influence of an inclined magnetic field on the Poiseuille flow of immiscible Micropolar-Newtonian Fluids in the Porous Medium, **Canadian journal of physics**, 96: 1016–1028, 2018. (NRC Research Press) (I.F.: 1.358, Q3)
51. Tiwari, A., **Yadav, Pramod Kumar** and Singh, P., Stokes flow through assemblage of non-homogeneous porous cylindrical particles using cell model technique, **National Academy Science Letters**, 41(1), 53-57, 2018. (Springer publisher) (I.F.: 1.1, Q3)

52. Yadav, Pramod Kumar, Tiwari, A. and Singh, P., Hydrodynamic permeability of a membrane built up by spheroidal particles covered by porous layer, **Acta Mechanica** 229 (4), 1869–1892, 2018. (Springer publisher) (I.F.: 2.7, Q2)
53. Sharma, B.D., Yadav, Pramod Kumar and Filippov, A.N., Jeffrey Fluid Model of Blood Flow in Tubes with Stenosis, **Colloid Journal**, 79 (6), 849–856, 2017. (Springer publisher) (I.F.: 1.4, Q4)
54. Sharma, B.D., Yadav, Pramod Kumar, A Two-Layer Mathematical Model of Blood Flow in Porous Constricted Blood Vessels, **Transport in Porous Media**, 120, 239-254, 2017. (Springer publisher) (I.F.: 2.7, Q2)
55. Yadav, Pramod Kumar, Deo, S., Singh, S.P. and Filippov, A.N., Effect of Magnetic Field on the Hydrodynamic Permeability of a Membrane Built up by Porous Spherical Particles, **Colloid Journal**, 79(1), 160-171, 2017. (Springer publisher) (I.F.: 1.4, Q4)
56. Srivastav B.G., Yadav, Pramod Kumar, Deo, S.; Singh P.K., Filippov, A.N., Hydrodynamic Permeability of a Membrane Composed of Porous Spherical Particles in the presence of Uniform Magnetic Field, **Colloid Journal**, 76(6), 725-738, 2014. (Springer publisher) (I.F.: 1.4, Q4)
57. Yadav, Pramod Kumar, Slow Motion of a Porous Cylindrical Shell in a concentric cylindrical cavity, **Meccanica**, 48, 1607-1622, 2013. (Springer publisher) (I.F.: 2.7, Q1)
58. Yadav, Pramod Kumar, Tiwari, A., Deo, S., Yadav, M.K., Filippov, A., Vasin, S.I. and Sherysheva, E., Hydrodynamic permeability of Biporous Membrane, **Colloid Journal**, 75 (4), 1-10, 2013. (Springer publisher) (I.F.: 1.4, Q4)
59. Yadav, Pramod Kumar, Deo, S., Yadav, M.K., Filippov, A.N., On Hydrodynamic Permeability of a Membrane Built up by Porous Deformed Spheroidal Particles, **Colloid Journal**, 75(5), 611-622, 2013. (Springer publisher) (I.F.: 1.4, Q4)
60. Yadav, Pramod Kumar and Deo, S, Stokes flow past an approximate porous spheroid embedded in another porous medium, **Meccanica** (An International Journal of Theoretical and Applied Mechanics AIMETA), 47, 1499–1516, 2012. (Springer publisher) (I.F.: 2.7, Q1)
61. Yadav, Pramod Kumar, Tiwari, A.; Deo, S., Filippov, A. and Vasin, S.I., Hydrodynamic permeability of membranes built up by spherical particles covered by porous shells: effect of stress jump condition, **Acta Mechanica**, 215, 193-209, 2010. (Springer publisher) (I.F.: 2.7, Q2)
62. Deo, S., Yadav, Pramod Kumar and Tiwari, A., Slow viscous flow through a membrane built up from porous cylindrical particles with an impermeable core, **Applied Mathematical Modeling**, 34, 1329-1343, 2010. (Elsevier publishers) (I.F.: 5, Q1)

LIST OF SCOPUS/ NON-SCOPUS PUBLICATION: 02

1. **Yadav, Pramod Kumar** and Deo, S., Stokes flow past a swarm of porous nano cylindrical particles enclosing a solid core, **International Journal of Mathematics and Mathematical Sciences**, 1-8, 2008, doi:10.1155/2008/ 651 910. (Scopus)
2. **Yadav, Pramod Kumar**, On the slow viscous flow through a swarm of solid spherical particles covered by porous shell, *Applied Mathematics*, 1(2), 112-121, 2011 (Non-Scopus)

LIST OF PUBLICATION IN NATIONAL JOURNAL: 03

1. **Yadav, Pramod Kumar** and Deo, S., Creeping flow past a swarm of porous deformed oblate spheroidal particles with kuwabara boundary condition, *Bull. Cal. Math. Soc.*, 100, (6) 617-630 (2008).
2. **Yadav, Pramod Kumar** and Deo, S., Stokes flow past a swarm of porous spherical particles with Happel boundary condition, *Progress of Mathematics*, Vol. 41&42, (2007-2008), 171-184.
3. **Yadav, Pramod Kumar**, Yadav, Manoj Kumar and Sinha Poonam, Slow viscous flow through a swarm of porous spherical particles enclosing a solid core: effect of stress jump condition, *Ultra Scientist*, 23 (3) B, 637-650, 2011.

LIST OF PUBLICATION IN THE PROCEEDING OF PEER REVIEWED CONFERENCES: 02

1. Tiwari, A, Deo, S. and Yadav, Pramod Kumar, Cell models for flow through a swarm of impermeable cylinders covered with porous layer, *Ind. J. Bio.: Special Issue (NCBM 7-8 March 2009)*.
2. Deo, S. and Yadav, Pramod Kumar, On the slow viscous flow through an aggregate cluster of nano porous cylindrical particles, *Indo-Australian workshop on "CFD approach on fluid flow, Heat and Mass Transfer"and CFD application in Multidisciplinary Areas*", ISBN: 978-81-904262-6-8