

DEPARTMENT OF MATHEMATICS

PUBLICATIONS

Faculty Name: Dr. Nirmala T.

1. H.B. Mallikarjuna, **T. Nirmala**, R.J. Punith Gowda, M. Radhika & R.S. Varun Kumar, "Two-dimensional Darcy-Forchheimer flow of a dusty hybrid nanofluid over a stretching sheet with viscous dissipation", Heat Transfer, 50(4), (2021), 3934-3947.
2. M.C. Jayaprakash, H.B. Mallikarjuna, Savitha B.M., **T. Nirmala** & K.C. Rajendra Prasad, "Significance of thermal radiation on dusty fluid over a stretching rotating disk with convective boundary condition," Heat Transfer, 50(7), (2021), 6665-6679.
3. **T. Nirmala**, H.B. Mallikarjuna & R. Naveen Kumar, "Carbon nanotubes suspended dusty nanofluid flow over stretching porous rotating disk with non-uniform heat source/sink" International Journal for Computational Methods in Engineering Science and Mechanics, 22(1), (2021), 1-9.
4. **T. Nirmala** & J.S. Mythreya, Applications of Mathematics-Fabrication of Box Wing Plane, JJEM, 3(06), (2019), 64-73.
5. **T. Nirmala** & K.P.N. Kumar, Higher-Dimensional Relativity and scalar tensor theories, JJEM, (2018).
6. **T. Nirmala** & B.J. Gireesha, Unsteady flow of a Dusty Visco Elastic fluid of triangular cross section, Analestiintific ale university ovidius, Mathematica, (2017).
7. **T. Nirmala** & B.J. Gireesha, "MHD flow of an Unsteady Dusty Fluid through an Inclined Channel in Anholonomic Co-ordinate system," International Journal of Mathematics Trends and Technology, (2017).
8. **T. Nirmala** & B.J. Gireesha, "Unsteady Dusty Visco-Elastic Fluid flow between Oscillating plates", IJRSE Journal, 2(5), (2014).
9. **T. Nirmala** & B.J. Gireesha, "Unsteady Dusty Fluid flow through an inclined rectangular channel" Romania, ActaUniversitatisApulensis, 36, (2013).
10. **T. Nirmala** & B.J. Gireesha, "Unsteady flow of a Dusty Visco-Elastic Fluid through an inclined of triangular cross-section" Romania, AnaleleStiintific ale University ovidius, Seria Mathematica, (2012).
11. **T. Nirmala** & B.J. Gireesha, "MHD flow of an unsteady Dusty Fluid through an inclined channel in Anholonomic co-ordinate system" (2011).
12. **T. Nirmala** & B.J. Gireesha, "Unsteady flow of a Dusty Fluid through an inclined open rectangular channel" Acta Universitatis Apulensis, 22, (2010), 141-173.
13. **T. Nirmala** & B.J. Gireesha, "Flow of an Unsteady Dusty Visco-Elastic Fluid between oscillating plates and a long wavy wall" Jangjeon Mathematical Society, (2009).
14. **T. Nirmala** & B.J. Gireesha, "Flow of a Dusty Visco-Elastic Fluid between Two parallel plates" Journal International Review of Physics, 3(3), (2009), 201-206.
15. B.J. Gireesha, **T. Nirmala**, C.S. Vishalakshi & C.S. Bagewadi, "Flow of an Unsteady Dusty Visco-Elastic Fluid between Two moving plates in Frenet Frame fluid system" Buletinul Academici de Stiinte a Republicii Moldova Mathematica, 3(61), (2009), 30-41.

Faculty Name: Shaila S. Bhat

1. Anil. S.C. & **Shaila. S. Bhat**, “A Study on Linear Algebra, Vector Spaces and Subspaces”, International Journal of Scientific Research and Engineering Development, 5(5), (2022), 486-488.
2. Anil. S.C., **Shaila. S. Bhat** & Gurupadavva Ingalahalli, “A Study on Linear Equations, Solutions of Linear Equations”, Paripex - Indian Journal of Research, 11(10), (2022), 1-2.

Faculty Name: Anil S.C.

1. **Anil. S.C.** & Shaila. S. Bhat, “A Study on Linear Algebra, Vector Spaces and Subspaces”, International Journal of Scientific Research and Engineering Development, 5(5), (2022), 486-488.
2. **Anil. S.C.**, Shaila. S. Bhat & Gurupadavva Ingalahalli, “A Study on Linear Equations, Solutions of Linear Equations”, Paripex - Indian Journal of Research, 11(10), (2022), 1-2.
3. Gurupadavva Ingalahalli, **S.C. Anil** & C.S. Bagewadi, “A Study on W7-Curvature tensor in Para-Sasakian Manifold Admitting Quarter-Symmetric Metric Connection”, Asian Journal of Mathematics and Computer Research, (2021), 17-25.
4. Gurupadavva Ingalahalli, **S.C. Anil** & C.S. Bagewadi, “Some results of Kenmotsu manifolds admitting Schouten-Van Kampen connection”, MathLAB Journal, 7, (2020), 191- 199.
5. Gurupadavva Ingalahalli, **S.C. Anil** & C.S. Bagewadi, “A Study on W8-curvature Tensor in Kenmotsu Manifolds”, Int. J. Math. and Appl., 8(2), (2020), 27-34.
6. Gurupadavva Ingalahalli, **S.C. Anil** & C.S. Bagewadi, “Certain Results on N(K)-Contact metric manifold”, Asian Journal of Mathematics and Computer Research, 26(3), (2019), 123-130.

Faculty Name: Dr. Pandith Giri Mohan Das P.K.

1. Kishori P.N., **Pandith Giri Mohan Das P.K.** & B.M. Geetha, “Relation between the RSD and other topological indices”, IAENG International Journal of Applied Mathematics, 54(7), (2024), 1468-1475.
2. Kishori P.N., **Pandith Giri Mohan Das P.K.** & A.A. Ali, “Reciprocal status-distance index of graphs”, Bulletin of International Mathematical Virtual Institute, 13(3), (2023), p.439.
3. Kishori P.N. & **Pandith Giri Mohan Das P.K.**, “Reciprocal status-distance index of Mycielskian and its complement”, International Journal of Mathematical Combinatorics, 1, (2022), 43-55.

Faculty Name: Dr. Gurupadavva Ingalahalli

1. Anil. S.C., Shaila. S. Bhat and **Gurupadavva Ingalahalli**, “A study on linear equations, solutions of linear equations”, Paripex - Indian Journal of Research, 11(10), (2022) 1-2.
2. **Gurupadavva Ingalahalli** and C.S. Bagewadi, “Ricci solitons in K-contact manifold admitting quarter symmetric metric connection”, Accepted in MathLAB Journal, (2021).

3. **Gurupadavva Ingalahalli**, S.C. Anil, C.S. Bagewadi, "A study on W7-curvature tensor in Para-Sasakian manifold admitting quarter-symmetric metric connection", Asian Journal of Mathematics and Computer Research, (2021), 17-25.
4. **Gurupadavva Ingalahalli**, S.C. Anil and C.S. Bagewadi, "Some results of Kenmotsu manifolds admitting Schouten-Van Kampen connection", MathLAB Journal, 7, (2020), 191-199.
5. **Gurupadavva Ingalahalli**, S.C. Anil and C.S. Bagewadi, "A Study on W8-curvature Tensor in Kenmotsu Manifolds", Int. J. Math. And Appl., 8(2), (2020), 27-34.
6. **Gurupadavva Ingalahalli**, S.C. Anil and C.S. Bagewadi, "Certain Results on N(K)-Contact metric manifold", Asian Journal of Mathematics and Computer Research, 26(3), (2019), 123-130.
7. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "On Generalized Sasakian Space Forms with Conircular and Projective curvature tensors", Accepted in International Journal of Maps in Mathematics - IJMM, (2018).
<http://www.journalmim.com/index.php/ijmm/article/view/19>
8. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "A Study on ϕ -recurrence τ -curvature tensor in (k, μ) -contact metric manifolds", Accepted in Communications in Mathematics, (2018). <https://doi.org/10.2478/cm-2018-0009>
9. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "A Study on Pseudo Quasi-Conformal curvature tensor in K-Contact Manifolds", Accepted in JNNCE Journal of Engineering Management (JJEM), (2018).
10. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "Some results on Generalized Sasakian space forms", MathLAB Journal, 1(1), (2018), 136-142.
<https://purkh.com/index.php/mathlab/article/view/46>
11. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "Ricci solitons in Generalized Sasakian space form", Bangmod Int. J. Math. Comp. Sci., 3(1-2), (2017), 144-153. 10_Bangmod-JMCS_2017
12. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "A Study on ϕ -Symmetric τ -curvature tensor in K-contact manifold", Acta Universitatis Apulensis, 51, (2017), 53-60.
http://auajournal.uab.ro/upload/80_1443_5aua_latex_template.pdf
13. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "A Study on K-contact Manifolds Admitting Semisymmetric Non-metric connection", JNNCE Journal of Engineering Management (JJEM), 1(1), (2017), 1-5.
14. C.S. Bagewadi and **Gurupadavva Ingalahalli**, "Ricci Solitons in (ϵ, δ) -Trans-Sasakian Manifolds", International Journal of Analysis and Applications (eta maths journal), 14(2), (2017), 209-217. <https://doi.org/10.28924/2291-8639>
15. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "On ϕ -Symmetry of C-Bochner curvature tensor in para-Sasakian manifold admitting Quarter-Symmetric metric connection", Asian Journal of Mathematics and Computer Research, 17(3), (2017), 172-183. <http://www.ikprress.org/index.php/AJOMCOR/article/view/4674>
16. S.R. Ashoka, C.S. Bagewadi and **Gurupadavva Ingalahalli**, "A Study on Ricci Solitons in almost $C(\lambda)$ Manifolds", Sohag J. Math., 3(2), (2016), 83-88.
<https://doi.org/10.18576/sjm/030206>
17. S.R. Ashoka, C.S. Bagewadi and **Gurupadavva Ingalahalli**, " η -Ricci Solitons in α -Sasakian Manifolds", Journal of Tensor Society, 8, (2014), 113-120.

18. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "A Study on ϕ -Symmetric τ -curvature tensor in $N(k)$ -contact metric manifold", Carpathian Math. Publ., 6(2), (2014), 203-211. [Impact factor: 0.654] <https://doi.org/10.15330/cmp.6.2.203-211>
19. C.S. Bagewadi and **Gurupadavva Ingalahalli**, "A Study on ϕ -Symmetric K-contact manifold admitting Quarter-Symmetric metric connection", Journal of Mathematical Physics, Analysis, Geometry, 10(4), (2014), 1-13. <https://doi.org/10.15407/mag10.04.399>
20. C.S. Bagewadi and **Gurupadavva Ingalahalli**, "A Study on Curvature tensors of a Generalized Sasakian space form", Acta Universitatis Apulensis, 38, (2014), 81-93. ISSN: 1582-5329. http://auajournal.uab.ro/upload/63_1035_acta_aua.pdf
21. S.R. Ashoka, C.S. Bagewadi and **Gurupadavva Ingalahalli**, "Curvature tensor of almost $C(\lambda)$ manifolds", Malaya J. Mat., 1(1), (2014), 10-15. https://www.malayajournal.org/selected_article.php?id=64
22. S.R. Ashoka, C.S. Bagewadi and **Gurupadavva Ingalahalli**, "A Geometry on Ricci solitons in (LCS) n manifolds", Differential Geometry - Dynamical Systems, 16, (2014), 50-62. <http://www.mathem.pub.ro/dgds/v16/D16-as-768.pdf>
23. S.R. Ashoka, **Gurupadavva Ingalahalli** and C.S. Bagewadi, "On Concircularphi-Symmetric Lorentizan Para-Sasakian manifolds Admitting Semi Symmetric Metric Connection", published in Proceedings of National Conference On "Geometry, Analysis and Fluid Mechanics", Government First Grade Collage, Koppa, September, (2013), ISBN:978-81-926808-1-1, 01-07.
24. S.R. Ashoka, **Gurupadavva Ingalahalli** and C.S. Bagewadi, "Some Curvature Properties of LP Sasakian manifolds", published in Proceedings of National Conference On "Mathematical Science and Applications", Government First Grade Collage, Koppa, March, (2013), ISBN:978-81-926808-0-4, 01-05.
25. S.R. Ashoka, C.S. Bagewadi and **Gurupadavva Ingalahalli**, "On Pseudo Projective α -reccurent LP Sasakian manifolds", published in Proceedings of Conference On Differential Geometry, Bangalore University, Bangalore, (2013), 37-43, ISBN:978-81-928387-1-7, 37-43.
26. C.S. Bagewadi and **Gurupadavva Ingalahalli**, "On Generalized Sasakian space form", published in Proceedings of Conference On Differential Geometry, Bangalore University, Bangalore, (2013), ISBN:978-81-928387-1-7.
27. S.R. Ashoka, C.S. Bagewadi and **Gurupadavva Ingalahalli**, "Certain results on Ricci Solitons in α -Sasakian Manifolds", Geometry, vol. 2013, Article ID 573925, 4 pages, 2013. doi:10.1155/2013/573925. <https://doi.org/10.1155/2013/573925>
28. C.S. Bagewadi, **Gurupadavva Ingalahalli** and S.R. Ashoka, "A Study on Ricci Solitons in Kenmotsu Manifolds", ISRN Geometry, (2013), Article ID 412593, 6 pages. <https://doi.org/10.1155/2013/412593>
29. C.S. Bagewadi and **Gurupadavva Ingalahalli**, "Certain Results on Ricci Solitons in Trans-Sasakian Manifolds", Journal of Mathematics, (2013), Article ID 787408, 10 pages. <https://doi.org/10.1155/2013/787408>
30. C.S. Bagewadi and **Gurupadavva Ingalahalli**, "A study on C-Bochner generalized α -recurrent K-contact manifold admitting quarter-symmetric metric connection", accepted in Proceedings of the Geometry, Algebra, Number Theory and Applications, Tumkur University, Tumkur, (2012), 169-179.
31. **Gurupadavva Ingalahalli** and C.S. Bagewadi, "Ricci solitons in (ϵ) -Trans-Sasakain manifolds", Journal of Tensor Society, 6(1), (2012), 145-159.

32. C.S. Bagewadi, **Gurupadavva Ingalahalli** and K.T. Pradeep Kumar, “On Irrotational C-Bochner Curvature Tensor in K-Contact and Kenmotsu manifolds”, *Acta Universitatis Apulensis*, 32, (2012), 221-232. http://auajournal.uab.ro/upload/31_319_Paper17-Acta32-12.pdf
33. Venkatesha, K.T. Pradeep Kumar, C.S. Bagewadi, and **Gurupadavva Ingalahalli**, “On Conircular ϕ -recurrent K-contact manifold admitting semi-symmetric metric connection”, *International Journal of Mathematics and Mathematical Sciences*, vol. 2012, Article ID 757032, 9 pages, 2012. doi:10.1155/2012/757032. <https://doi.org/10.1155/2012/757032>
34. **Gurupadavva Ingalahalli** and C.S. Bagewadi, “Ricci solitons in α -Sasakain manifolds”, *ISRN Geometry*, (2012), 14 pages. <https://doi.org/10.5402/2012/421384>
35. **Gurupadavva Ingalahalli** and C.S. Bagewadi, “A study on Conservative C-Bochner curvature tensor in K-contact and Kenmotsu manifolds admitting semi-symmetric metric connection”, *ISRN Geometry*, (2012), 14 pages. <https://doi.org/10.5402/2012/709243>
36. C.S. Bagewadi and **Gurupadavva Ingalahalli**, “Ricci solitons in Lorentzian α -Sasakain manifolds”, *Acta Mathematica Academiae Paedagogicae Ny'iregyh'aziensis*, 28(1), (2012), 59-68. https://www.emis.de/journals/AMAPN/vol28_1/8.html

Faculty Name: Dr. M.R. Krishnamurthy

1. Vinay Acharya, K. Ganesh Kumar, **M.R. Krishnamurthy** & D.G. Prakasha, “Computational analysis of non-Fick’s mass flux flow and thermophoretic particle deposition heat transfer for a biomagnetic fluid over a sheet”, *Journal of Thermal Analysis and Calorimetry* (Springer), (2025), pp. 1-15. <https://doi.org/10.1007/s10973-025-14726-3>.
2. M.G. Reddy, **M.R. Krishnamurthy**, M.M. Praveena, L.S. Naik, D.G. Prakasha & K. Ganesh Kumar, “Unsteady absorption flow and dissipation heat transfer over a non-Newtonian fluid”, *Waves in Random and Complex Media* (Taylor & Francis), (2025), Vol. 35 No. 1, pp. 2022-2036. <https://doi.org/10.1080/17455030.2022.2039418>
3. N.J. Vidyarani, M.M. Praveena, D.G. Prakasha, **M.R. Krishnamurthy** & K. Ganesh Kumar, Dilsora Abduvalieva and M.I. Khan, “A comparative study of flow and CC heat flux over a magnetic field under the influence of nanomaterial and carbon nanotubes”, *Partial Differential Equations in Applied Mathematics* (Elsevier), 10, (2024), p.100696.
4. L.S. Naik, D.G. Prakasha, M.M. Praveena, **M.R. Krishnamurthy** and K. Ganesh Kumar, “Stratification flow and variable heat transfer over different non-Newtonian fluids under the consideration of magnetic dipole”, *International Journal of Modern Physics B* (World Scientific Publishing Company), 38(05), (2024), p.2450071.
5. P. Venkatesh, **M.R. Krishnamurthy**, A. Felicita, B.J. Gireesha and B. Nagaraja, “Mixed convective flow of Casson nanofluid in the microchannel with the effect of couple stresses: irreversibility analysis”, *International Journal of Modelling and Simulation* (Taylor & Francis), (2023), 1-15.
6. A. Felicita, P. Venkatesh, B.J. Gireesha and **M.R. Krishnamurthy**, “Slip and convective flow of Williamson nanofluid influenced by Brownian motion and thermophoresis mechanism in a horizontal microchannel”, *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems* (SAGE Publications), (2023).

7. **M.R. Krishnamurthy**, M.G. Reddy, M.D. Alsulami and B.C. Prasannakumara, "Numerical investigation on the effect of electrical force and periodic force on neutrally buoyant spherical particles in a Newtonian fluid at low Reynolds numbers", *International Communications in Heat and Mass Transfer* (Elsevier), 135, (2022), p.106157.
8. D.O. Soumya, P. Venkatesh, B.J. Gireesha, Manohar R. Gombi and **M.R. Krishnamurthy**, "Flow and thermal analysis of Oldroyd 8 constant fluid in a porous channel", *Heat Transfer*, 52(2), (2022), 1413-1432.
9. M.G. Reddy, **M.R. Krishnamurthy**, M.M. Praveena, L.S. Naik, D.G. Prakasha and K. Ganesh Kumar, "Unsteady absorption flow and dissipation heat transfer over a non-Newtonian fluid", *Waves in Random and Complex Media*, 35(1), (2022), 2022-2036.
10. B.J. Gireesha, **M.R. Krishnamurthy**, K. Ganesh Kumar, N.G. Rudraswamy and P.T. Manjunatha, "Mathematical and Engineering Aspects of Jeffrey Fluid through a Cattaneo-Christov Heat Flux over an Incessant Moving Needle by Considering Darcy Forchheimer Porous Medium", *Journal of Engineering Mathematics and Statistics* (Montech publication), 5(12), (2021), 1-17.
11. B.J. Gireesha, M. Umshaiah and **M.R. Krishnamurthy**, "MHD Flow and Nonlinear Radiative Heat Transfer of Three Dimensional Oldroyd-B Fluid over a Nonlinearly Stretching Surface", *Journal of Engineering Mathematics and Statistics* (Montech publication), 5(1), (2021).
12. B. Nagaraja, B.J. Gireesha, G. Sowmya and **M.R. Krishnamurthy**, "Slip and Radiative Flow of Shape Dependent Dusty Nanofluid over a Melting Stretching Sheet", *International Journal of Ambient Energy* (Taylor and Francis), 43(1), (2021), 4120-4131. DOI:10.1080/01430750.2020.1861094.
13. Praveena M.M., Bagewadi C.S. and **M.R. Krishnamurthy**, "Solitons of Kahlerian space time manifolds", *International Journal of Geometric Methods in Modern Physics* (IJGMMP), 18(02), (2020), p. 2150021. DOI: 10.1142/S0219887821500213.
14. N. Srikantha, **M.R. Krishnamurthy**, M.M. Praveena, K.S. Onkarappa, K. Bharathi and G.H. Pujar, "Nonlinear radiative heat transfer of Magnetite (Fe_3O_4)-water nanofluid over an unsteady stretching surface with fluid particle suspension", Published in the IOP Conference Series: Materials Science and Engineering, 925(1), (2020), p.012054. doi:10.1088/1757-899X/925/1/012054.
15. K. Ganesh Kumar, B.J. Gireesha, N.G. Rudraswamy and **M.R. Krishnamurthy**, "An unsteady flow and melting heat transfer of a nanofluid over a stretching sheet embedded in a porous medium", *Int. J. of Applied Mechanics and Engineering*, 24(2), (2019), 245-258.
16. **M.R. Krishnamurthy** and B.J. Gireesha, "An unsteady flow and nonlinear radiative heat transfer of nanofluid over a stretching sheet", *JNNCE Journal of Engineering and Management* (JJEM), (2019).
17. B.J. Gireesha, **M.R. Krishnamurthy** and K. Ganesh Kumar, "Nonlinear radiative heat transfer of boundary layer flow and heat transfer of Maxwell nanofluid over a stretching sheet", *Journal of Nanofluids* (American Scientific Publishers), 8, (2018), 1-10.
18. B.J. Gireesha, K. Ganesh Kumar, S. Manjunath, **M.R. Krishnamurthy** and N.G. Rudraswamy, "Boundary layer flow and melting heat transfer of Prandtl fluid over a stretching surface by considering Joule heating effect", *Multidiscipline Modeling in Materials and Structures* (Emerald), 15(2), (2018), 337-352. <https://doi.org/10.1108/MMMS-03-2018-0055>.

19. K. Ganeshkumar, N.G. Rudraswamy, S. Manjunatha, B.J. Gireesha and **M.R. Krishnamurthy**, "Impact of ohmic heating on MHD mixed convection flow of Casson fluid by considering Cross diffusion effect", *Nonlinear Engineering Modeling and Application (NLENG)* (De-Gruyter), 8, (2018), 380-388.
20. **M.R. Krishnamurthy**, "MHD flow and radiative heat transfer of micro-polar dusty fluid suspended with alumina nanoparticles over a stretching sheet embedded in a porous medium", in *JNNCE Journal of Engineering and Management (JJEM)*, 2(1), (2018), p.30.
21. B.J. Gireesha, K. Ganesh Kumar, **M.R. Krishnamurthy** and N.G. Rudraswamy, "Enhancement of heat transfer in an unsteady rotating flow for the aqueous suspensions of single wall nanotubes under nonlinear thermal radiation: A numerical study", *Colloid and Polymer Science (Springer)*, 296(9), (2018), 1501-1508.
22. B.C. Prasannakumara, M.G. Reddy, M.V.V.N.L. Sudha Rani and **M.R. Krishnamurthy**, "Effect of chemical reaction on Maxwell nanofluid slip flow over a stretching sheet", *International Journal of Chemical Reactor Engineering (IJCRE)*, 17(1), (2018), 20180065. ISSN: 1542-6580, DOI: <https://doi.org/10.1515/ijcre-2018-0065>.
23. B.J. Gireesha, **M.R. Krishnamurthy**, B.C. Prasannakumara and R.S.R. Gorla, "MHD flow and nonlinear radiative heat transfer of Casson nanofluid past a non-linearly stretching sheet in the presence of chemical reaction", *Nanoscience and Technology: An International Journal*, 9(3), (2018), 207-229. DOI: 10.1615/NanoSciTechnolIntJ.2018020102
24. **M.R. Krishnamurthy**, B.J. Gireesha, K. Ganesh Kumar and M. Umshaiah, "Impact of applied magnetic field on nonlinear radiative heat transfer of dusty fluid over a stretching sheet", *JNNCE Journal of Engineering and Management (JJEM)*, 1(2), (2018).
25. **M.R. Krishnamurthy**, K. Ganesh Kumar, B.J. Gireesha, R.S.R. Gorla and N.G. Rudraswamy, "MHD flow and heat transfer of non-Newtonian nanofluids over a nonlinear stretching sheet", *Journal of Computational and Theoretical Nanoscience*, 1(15), (2018), p.19. DOI: <https://doi.org/10.1166/jctn.2018.7377>
26. B.J. Gireesha, N.G. Rudraswamy, K. Ganesh Kumar, M. Archana and **M.R. Krishnamurthy**, "Cross diffusion effect on MHD mixed convection flow of nonlinear radiative heat and mass transfer of Casson fluid over a vertical plate", *Results in Physics*, 8, (2018), 694-701. <https://doi.org/10.1016/j.rinp.2017.12.061>
27. B.C. Prasannakumara, B.J. Gireesha, **M.R. Krishnamurthy** and R.S.R. Gorla, "Biot number effect on MHD flow and heat transfer of nanofluid with suspended dust particles in the presence of nonlinear thermal radiation and non-uniform heat source and sink", *Acta et Commentationes Universitatis Tartuensis de Mathematica [ACUTM]*, 22(1), (2018), 91-114. DOI: 10.12697/ACUTM.2018.22.09.
28. **M.R. Krishnamurthy**, K. Ganesh Kumar, B.J. Gireesha and N.G. Rudraswamy, "MHD Flow and heat transfer (PST and PHF) of dusty fluid suspended with alumina nanoparticles over a stretching sheet embedded in a porous medium under the influence of thermal radiation", *Journal of Nanofluids* (American Scientific Publishers), 7, (2017), 1-9. DOI: <https://doi.org/10.1166/jon.2018.1473>
29. **M.R. Krishnamurthy**, K. Ganesh Kumar, B.J. Gireesha and N.G. Rudraswamy, "Radiation effect on MHD stagnation-point flow and melting heat transfer of micropolar nanofluid over a linear stretching sheet", *JNNCE Journal of Engineering and Management (JJEM)*, 1(1), (2017), p.10.

30. K. Ganesh Kumar, B.J. Gireesha, **M.R. Krishnamurthy** and B.C. Prasannakumara, "Impact of convective condition on Marangoni convection flow and heat transfer in Casson nanofluid with uniform heat source sink", *Journal of Nanofluids* (American Scientific Publishers), 7, (2017), 1-7. DOI: <https://doi.org/10.1166/jon.2018.1439>
31. K. Ganesh Kumar, B.J. Gireesha, **M.R. Krishnamurthy** and N.G. Rudraswamy, "An unsteady squeezed flow of a tangent hyperbolic fluid over a sensor surface in the presence of variable thermal conductivity", *Results in Physics* (Elsevier), 7, (2017), 3031- 3036. <https://doi.org/10.1016/j.rinp.2017.08.021>
32. M. Umshaiah, **M.R. Krishnamurthy**, N.G. Rudraswamy, B.J. Gireesha and B.C. Prasannakumara "Nonlinear radiative heat transfer to Carreau fluid over a nonlinear stretching sheet in a porous medium in the presence of non-uniform heat source/sink and viscous dissipation", *Frontiers in Heat and Mass Transfer (FHMT)*, 9(1), (2017), 1-8. DOI: 10.5098/hmt.9.4
33. B.C. Prasannakumara, B.J. Gireesha, **M.R. Krishnamurthy** and R.S.R. Gorla, "Slip flow and nonlinear radiative heat transfer on suspended nanoparticles due to a rotating disk in the presence of convective boundary condition", *International Journal of Nanoparticles* (Inderscience Publishers), 9(3), (2017), 180-200. DOI: 10.1504/IJNP.2017.089212(IF- 0.088) .
34. B.C. Prasannakumara, B.J. Gireesha, **M.R. Krishnamurthy** and R.S.R. Gorla, "MHD flow and nonlinear radiative heat transfer of Sisko nanofluid over a nonlinear stretching sheet", *Informatics in Medicine Unlocked* (Elsevier), 9, (2017), 123–132. (IF- 2.525). <https://doi.org/10.1016/j.imu.2017.07.006>
35. B.J. Gireesha, B.C. Prasannakumara, **M.R. Krishnamurthy** and R.S.R. Gorla, "Unsteady boundary layer flow and convective heat transfer of a fluid particle suspension with nanoparticles over a stretching surface", *Journal of Modeling in Mechanics and Materials* (Degruyter), 1(2), (2017), p.20170002. DOI: <https://doi.org/10.1515/jmmm-2017-0002>
36. K. Ganesh Kumar, N.G. Rudraswamy, B.J. Gireesha and **M.R. Krishnamurthy**, "Influence of nonlinear thermal radiation and viscous dissipation on three-dimensional flow of Jeffrey nanofluid over a stretching sheet in the presence of Joule heating", *Journal of Nonlinear Engineering - Modeling and Application* (De-Gruyter), 6(3), (2017), 207-219. DOI: <https://doi.org/10.1515/nleng-2017-0014>
37. B.J. Gireesha, B.C. Prasannakumara, **M.R. Krishnamurthy**, K. Ganesh Kumar and M. Umshaiah, "Suspended particle effect on heat and mass transfer of micropolar fluid over a stretching sheet in the presence of thermal radiation", *Recent Advances in Nanoscience & Nanotechnology* (Proceedings of National Seminar held on 26th February 2016, Government Science College Hassan - 573 201, Karnataka, India) ISBN : 978-1539580201.
38. B.J. Gireesha, K. Ganesh Kumar, N.G. Rudraswamy and **M.R. Krishnamurthy**, "Three-dimensional flow and heat transfer of a Jeffery nanofluid with uniform heat source/sink", *Recent Advances in Nanoscience & Nanotechnology* (Proceedings of National Seminar held on 26th February 2016, Government Science College Hassan - 573 201, Karnataka, India) ISBN :978-1539580201.
39. N.G. Rudraswamy, B.J. Gireesha and **M.R. Krishnamurthy**, "Effect of internal heat generation/absorption and viscous dissipation on MHD flow and heat transfer of nanofluid with particle suspension over a stretching surface", *Journal of Nanofluids*

- (American Scientific Publishers), 5(6), (2016), 1000-1010. DOI: <https://doi.org/10.1166/jon.2016.1286>
40. **M.R. Krishnamurthy**, B.J. Gireesha, B.C. Prasannakumara and R.S.R. Gorla, "Thermal radiation and chemical reaction effects on boundary layer slip flow and melting heat transfer of nanofluid induced by a nonlinear stretching sheet", *Journal of Nonlinear Engineering - Modeling and Application* (De-Gruyter), 5(3), (2016), 147-159. DOI: <https://doi.org/10.1515/nleng-2016-0013>.
 41. **M.R. Krishnamurthy**, B.J. Gireesha, R.S.R. Gorla and B.C. Prasannakumara, "Suspended particle effect on slip flow and melting heat transfer of nanofluid over a stretching sheet embedded in a porous medium in the presence of nonlinear thermal radiation", *Journal of Nanofluids* (American Scientific Publishers), 5(4), (2016), 502-510. DOI: 10.1166/jon.2016.1247
 42. **M.R. Krishnamurthy**, B.C. Prasannakumara, R.S.R. Gorla and B.J. Gireesha, "Nonlinear thermal radiation and slip effect on boundary layer flow and heat transfer of suspended nanoparticles over a stretching sheet embedded in porous medium with convective boundary conditions", *Journal of Nanofluids* (American Scientific Publishers), 5(4), (2016), 522-530. DOI: <https://doi.org/10.1166/jon.2016.1238>
 43. B.C. Prasannakumara, **M.R. Krishnamurthy**, B.J. Gireesha and R.S.R. Gorla, "Effect of multiple slips and thermal radiation on MHD flow of Jeffery nanofluid with heat transfer", *Journal of Nanofluids* (American Scientific Publishers), 5, (2016), 82-93. DOI: <https://doi.org/10.1166/jon.2016.1198>
 44. **M.R. Krishnamurthy**, B.C. Prasannakumara, B.J. Gireesha and R.S.R. Gorla, "Effect of chemical reaction on MHD boundary layer flow and melting heat transfer of Williamson nanofluid in porous medium", *Engineering Science & Technology: an International Journal* (Elsevier), 19(1), (2016), 53-61. DOI: <https://doi.org/10.1016/j.jestch.2015.06.010>
 45. B.C. Prasannakumara, B.J. Gireesha, R.S.R. Gorla and **M.R. Krishnamurthy**, "Effects of chemical reaction and nonlinear thermal radiation on Williamson nanofluid slip flow over a stretching sheet embedded in a porous medium", *Journal of Aerospace Engineering* (American Society of Civil Engineers), 29(5), (2016), p.04016019. [https://doi.org/10.1061/\(ASCE\)AS.1943-5525.0000578](https://doi.org/10.1061/(ASCE)AS.1943-5525.0000578)
 46. **M.R. Krishnamurthy**, B.J. Gireesha, B.C. Prasannakumara, R.S.R. Gorla, N.G. Rudraswamy and K. Ganesh Kumar, "Slip flow and nonlinear radiative heat transfer on nanofluid past an unsteady stretching sheet with chemical reaction and non-uniform heat source/sink", Accepted in Proceeding of the National workshop on Partial Differential Equations and Numerical methods in Fluid Dynamics @ Government First Grade College, Koppa, Karnataka, INDIA, ISBN: 978-81-926808-5-9 (2016).
 47. B.J. Gireesha, K. Ganesh Kumar, B.C. Prasannakumara, **M.R. Krishnamurthy** and N.G. Rudraswamy, "Effect of nonlinear thermal radiation on Williamson dusty fluid over a stretching sheet in the presence of magnetic field", Accepted in Proceeding of the National workshop on Partial Differential Equations and Numerical methods in Fluid Dynamics @ Government First Grade College, Koppa, Karnataka, INDIA, ISBN: 978-81-926808-5-9 (2016).
 48. **M.R. Krishnamurthy**, B.C. Prasannakumara, B.J. Gireesha and R.S.R. Gorla, "Effect of viscous dissipation on hydromagnetic fluid flow and heat transfer of nanofluid over an exponentially stretching sheet with fluid-particle suspension", *Cogent Mathematics*

- (Taylor and Francis), 2, (2015), p.1050973.
<https://doi.org/10.1080/23311835.2015.1050973>
49. B.J. Gireesha, A.J. Chamkha, N.G. Rudraswamy and **M.R. Krishnamurthy**, “MHD flow and heat transfer of a nanofluid embedded with dust particles over a stretching sheet”, *Journal of Nanofluids* (American Scientific Publishers), 4(1), (2014), 66-72.
<https://doi.org/10.1016/j.proeng.2015.11.452>.
 50. Channakeshava Murthy and **M.R. Krishnamurthy**, “Nonlinear Radiative Heat Transfer of Eyring Powell Nanofluid over a Nonlinearly Stretching Sheet,” *International Journal of All Research Education and Scientific Methods (IJARESM)*, 8(10), (2020), 1119-1138.

Faculty Name: Dr. M.L. Keerthi

1. Manohar R. Gombi, B.J. Gireesha, P. Venkatesh, **M.L. Keerthi** and G.K. Ramesh, “Fractional-order energy equation of a fully wet longitudinal fin with convective–radiative heat exchange through Sumudu transform analysis”, *Mechanics of Time-Dependent Materials* (Springer), 29(2), (2025), 1-21. March 2025
2. F. Almeida, **M.L. Keerthi**, P. Venkatesh, B.J. Gireesha, B. Nagaraja and Pradeep Kumar, “Analogical elucidation of dusty-hybrid nanofluid flow through the microchannel: An unsteady case”, *ZAMM-Journal of Applied Mathematics and Mechanics* (Wiley Online Library), 104(11), (2024), p.e202200534. Oct 2024
3. P.L. Pavan Kumar, B.J. Gireesha, P. Venkatesh and **M.L. Keerthi**, “Comparative analysis of transient thermal behaviour and efficiency in longitudinal metal porous fin with combined heat and mass transfer under dehumidification conditions”, *Applied Thermal Engineering* (Elsevier), 261, (2024), p.125069. Nov 2024
4. P.L. Pavan Kumar, B.J. Gireesha, P. Venkatesh and **M.L. Keerthi**, “Transient thermal behavior and efficiency in fully wet porous longitudinal fin: The influence of shape-dependent hybrid nanofluid and internal heat generation”, *Numerical Heat Transfer, Part A: Applications* (Taylor & Francis), (2024), 1-21. March 2024
5. C.G. Pavithra, B.J. Gireesha and **M.L. Keerthi**, “Semi-analytical investigation of heat transfer in a porous convective radiative moving longitudinal fin exposed to magnetic field in the presence of a shape-dependent trihybrid nanofluid”, *Applied Mathematics and Mechanics* (Springer), 45(1), (2024), 197-216.
6. **M.L. Keerthi**, H. Berrehal, G. Sowmya, S. Dinarvand and B.J. Gireesha, “Thermal Performance of an Unsteady Exponential Moving Porous Fin Subject to the Flow of Hybrid Nanofluid”, *Journal of Nanofluids* (American Scientific Publishers), 13(1), (2024), 108-116.
7. L. Anitha, B.J. Gireesha and **M.L. Keerthi**, “Irreversibility scrutiny of SWCNT and MWCNT nanofluid convective flow using Darcy-Forchheimer rule in an upright microchannel with variable thermal conductivity and Brownian motion and thermophoresis”, *International Journal of Ambient Energy* (Taylor & Francis), 45(1), (2024), p.2316782.
8. B.J. Gireesha, **M.L. Keerthi** and K.M. Eshwarappa, “Transient thermal investigation of a fully wet porous convective–radiative rough cylindrical pin fin”, *Heat Transfer* (Wiley Online Library), 52(3), (2023), 2900-2921.

9. L. Anitha, B.J. Gireesha and **M.L. Keerthi**, “Irreversibility analysis of tangent hyperbolic fluid flow in a microchannel: A hybrid nanoparticles aspects”, *Physica Scripta* (IOP Publishing), 98(3), (2023), p.035220.
10. C.G. Pavithra, B.J. Gireesha and **M.L. Keerthi**, “Heat transfer analysis of a convective radiative porous moving longitudinal fin exposed to magnetic field by Adomian decomposition sumudu transform method”, *Physica Scripta* (IOP Publishing), 98(4), (2023), p.045208.
11. B.J. Gireesha and **M.L. Keerthi**, “Effect of periodic heat transfer on the transient thermal behavior of a convective-radiative fully wet porous moving trapezoidal fin”, *Applied Mathematics and Mechanics* (English Edition) (Springer), 44(4), (2023), 653-668.
12. B.J. Gireesha and **M.L. Keerthi**, “Thermal performance of stretching/shrinking fully wet porous cylindrical and conical pin fin structures by differential transformation approach”, *International Journal of Modern Physics B* (World Scientific Publishing), 38(20), (2023), p.2450266.
13. **M.L. Keerthi** and B.J. Gireesha, “Analysis of entropy generation in a fully wet porous moving longitudinal fin exposed to convection and radiation: homogeneous and functionally graded materials”, *Journal of Thermal Analysis and Calorimetry* (Springer), 148, (2023), 6945-6957.
14. **M.L. Keerthi**, B.J. Gireesha and G. Sowmya, “Impact of shape-dependent hybrid nanofluid on transient efficiency of a fully wet porous longitudinal fin”, *Arabian Journal for Science and Engineering* (Springer), 49(2), (2023), 2017-2026.
15. F. Almeida, **M.L. Keerthi**, B.J. Gireesha, P. Venkatesh, P. Kumar and B. Nagaraja, “Consistent ramifications of prescribed surface temperature and prescribed heat flux boundary conditions for the slip flow of Walter B fluid in a stretching channel”, *International Journal of Modelling and Simulation* (Taylor and Francis), 45(2), (2023), 709-722.
16. B.J. Gireesha, C.G. Pavithra and **M.L. Keerthi**, “Semianalytical investigation on heat transfer in porous fins with temperature-dependent thermal conductivity via the homotopy perturbation Sumudu transform approach”, *Heat Transfer* (Scopus), 53(2), (2023) 610-645.
17. B.J. Gireesha, **M.L. Keerthi** and G. Sowmya, “Effects of stretching/shrinking on the thermal performance of fully wetted convective-radiative longitudinal fin of exponential profile”, *Applied Mathematics and Mechanics* (English Edition) (Springer), 43(3), (2022), 389-402.
18. **M.L. Keerthi**, B.J. Gireesha and G. Sowmya, “Numerical investigation of transient thermal behaviour of fully wet and porous moving semi-spherical fin”, *Physica Scripta* (IOP Publishing), 97(8), (2022), p.085220.
19. **M.L. Keerthi**, B.J. Gireesha and G. Sowmya, “Numerical investigation of efficiency of fully wet porous convective-radiative moving radial fin in the presence of shape-dependent hybrid nanofluid”, *International Communications in Heat and Mass Transfer* (Elsevier), 138, (2022), p.106341.
20. B.J. Gireesha, **M.L. Keerthi** and D.O. Soumya, “Study on Efficiency of Fully Wet Porous Trapezoidal Fin Structures in the Presence of Convection and Radiation”, *JNNCE Journal of Engineering & Management*, 5(2), (2022), 1-9.

21. B.J. Gireesha, **M.L. Keerthi** and K.M. Eshwarappa, “Heat transfer analysis of longitudinal fins of trapezoidal and dovetail profile on an inclined surface”, *Physica Scripta* (IOP Publishing), 96(12), (2021), p.125209.

Faculty Name: Dr. Felicita Almeida

1. Pradeep Kumar, M.N. Guruprasad, **F. Almeida** and Qasem Al-Mdallal, “Entropy Optimization of Micropolar Nanofluid Flow through a Porous Microchannel with Darcy–Forchheimer phenomenon using Differential Transform Method: An ANOVA–Taguchi Approach”, *International Journal of Thermofluids* (Elsevier), (2025), Vol. 30, p. 101428. <https://doi.org/10.1016/j.ijft.2025.101428>. Sep 2025
2. Pradeep Kumar, **F. Almeida**, Taseer Muhammad & Metib Alghamdi, “Surface drag optimization using ANOVA-Taguchi method for the unsteady radiative flow of dusty-tri-hybrid nanofluid in a microchannel emphasizing shape factor”, *Journal of Radiation Research and Applied Sciences* (Elsevier), (2025), Vol. 18, No. 3, p. 101806, <https://doi.org/10.1016/j.jrras.2025.101806>. July 2025
3. P. Kumar, A.R. Ajaykumar, F. Almeida, S. Saranya, Qasem Al-Mdallal & **F. Almeida**, “Statistical and numerical investigation of irreversibility for time-dependent Casson-Carreau nanofluid flow driven by curved surface: regression analysis”, *Partial Differential Equations in Applied Mathematics* (Elsevier), (2025), Vol. 15, p. 101263, <https://doi.org/10.1016/j.padiff.2025.101263>. July 2025
4. Pradeep Kumar, A.R. Ajaykumar, **F. Almeida**, Qasem Al-Mdallal & N.G. Rudraswamy, “Response Surface Technique for Time-Dependent Carreau Nanofluid Flow with Entropy Generation: A Statistical Modelling”, *International Journal of Thermofluids* (Elsevier), (2025), Vol. 28, p. 101291, <https://doi.org/10.1016/j.ijft.2025.101291>. June 2025
5. P. Kumar, **F. Almeida**, Q. Al-Mdallal, “Artificial neural network algorithm for time dependent radiative Casson fluid flow with couple stresses through a microchannel”, *Alexandria Engineering Journal* (Elsevier), (2025), Vol.125, pp.167-184, <https://doi.org/10.1016/j.aej.2025.04.027>. (Q1- IF: 6.2). April 2025
6. P. Kumar, M.N. Guruprasad, **F. Almeida**, T. Muhammad, “Optimising the thermal characteristics of Williamson fluid flow through a microchannel influenced by the Hall effect using response surface methodology”, *Case Studies in Thermal Engineering* (Elsevier), (2025), Vol.70, p. 106139, <https://doi.org/10.1016/j.csite.2025.106139>. (Q1- IF:6.4). April 2025
7. P. Kumar, **F. Almeida**, Q. Al-Mdallal, “Entropy optimization of inverse Darcy-Forchheimer model of Jeffrey fluid flow over a curved stretching surface using ANOVA-Taguchi technique”, *Partial Differential Equations in Applied Mathematics* (Elsevier), (2025), Vol. 14, p. 101183, <https://doi.org/10.1016/j.padiff.2025.101183>. (Q2). April 2025
8. P. Kumar, M.N. Guruprasad, **F. Almeida**, “Thermal analysis of magnetized ZnO- blood nanofluid anticipating couple stresses in vertical microchannel using differential transform method”, *Journal of Molecular Liquids* (Elsevier), (2025), Vol. 424, p. 127051, <https://doi.org/10.1016/j.molliq.2025.127051>. (Q1 - IF: 5.3). Feb 2025

9. B.J. Gireesha, S. Manthesha, **F. Almeida**, P. Mallikarjun, “Artificial neural network model using Levenberg Marquardt algorithm to analyse transient flow and thermal characteristics of micropolar nanofluid in a microchannel”, *Partial Differential Equations in Applied Mathematics* (Elsevier), (2025), Vol. 13, <https://doi.org/10.1016/j.padiff.2024.101061>. (Q2). Dec 2024/March 2025
10. F. Almeida, Pradeep Kumar, A.R. Ajaykumar, B. Nagaraja, “Cattaneo-Christov Diffusive Transient Flow of Prandtl Nanofluid Guided by Stretching/Shrinking Curved Sheet With Magnetic Dipole”, *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems* (SAGE Publications), (2025), <https://doi.org/10.1177/23977914251348>. (Q3). July 2025.
11. P. Kumar, **F. Almeida**, Q. Al-Mdallal, “Construction of optimised theoretical model using ANOVA-Taguchi methodology for transient flow of Carreau nanofluid through microchannel prone to radiation”, *Alexandria Engineering Journal* (Elsevier), Vol.112, pp. 411-423, (2025), <https://doi.org/10.1016/j.aej.2024.10.111>. (Q1 - IF: 6.2) Nov 2024/Jan 2025
12. P. Kumar, K.G. Vidhya, **F. Almeida**, A. AL-Mdallal, “Optimization using response surface methodology for Eyring-Powell fluid flow with Cattaneo-Christov heat flux and cross diffusion effects”, *International Journal of Thermofluids* (Elsevier), Vol. 25, (2025), <https://doi.org/10.1016/j.ijft.2024.100981>. (Q1). Nov 2024
13. K.G. Vidhya, **F. Almeida**, P. Kumar, B. Nagaraja, “Intervention of the Koo-Kleinstreuer and Li Model in Nanofluid Flow over Magnetic Dipole Centered Curved Sheet and Optimizing Entropy using Response Surface Methodology”, *Journal of Applied and Computational Mechanics* (Shahid Chamran University of Ahvaz), Vol. 11 No. 2, pp. 382-398, (2025), 10.22055/jacm.2024.46802.4595 (Q2 - IF: 2.8). Aug 2024.
14. B. Nagaraja, K.G. Vidhya, **F. Almeida** & Pradeep Kumar, “Numerical illustration of diffusive flow of blood-based tri-hybrid nanofluid generated by a curved stretching sheet using law of porosity”, *Numerical Heat Transfer, Part A: Applications* (Taylor & Francis), (2025) Vol. 86 No. 16, pp. 5626-5647. <https://doi.org/10.1080/10407782.2024.2333042>. April 2024
15. **F. Almeida**, M.L. Keerthi, B.J. Gireesha, P. Venkatesh, Pradeep Kumar, B. Nagaraja “Consistent ramifications of prescribed surface temperature and prescribed heat flux boundary conditions for the slip flow of Walter B fluid in a stretching channel, *International Journal of Modelling and Simulation* (Taylor & Francis), Vol. 45 No. 2, pp. 709-722, (2025), <https://doi.org/10.1080/02286203.2023.2237845>. (Q2 - IF:3.1) July 2023
16. B. Nagaraja, B.J. Gireesha, D.O. Soumya and **F. Almeida**, “Characterization of MHD convective flow of Jeffrey nanofluid driven by a curved stretching surface by employing Darcy-Forchheimer law of porosity”, *Waves in Random and Complex Media* (Taylor & Francis), Vol. 35 No. 1, pp. 73-92, (2025) 10.1080/17455030.2021.2020933. (Q2 -IF: 4.853) June 2023
17. B.J. Gireesha, S. Manthesha, **F. Almeida**, P. Mallikarjun, “Flow of magnetized Powell-Eyring fluid in microchannel exposed to non-linear radiation and constricted to slip regime by varying viscosity”, *International Journal of Modelling and Simulation* (Taylor

- & Francis), (2025), Vol. 45 No. 2, pp. 478-491, <https://doi.org/10.1080/02286203.2023.2286203> (Q2 - IF: 3.1). May 2023
18. P. Kumar, B. Nagaraja, A.R. Ajaykumar, **F. Almeida**, “Optimization design based on Taguchi method and statistical analysis of variance for thermo-diffusive flow over a curved sheet: entropy analysis, International Journal of Modelling and Simulation (Taylor & Francis), (2024), <https://doi.org/10.1080/02286203.2024.2437829>. (Q2 - IF:3.1) Dec 2024.
 19. K.G. Vidhya, B. Nagaraja, **F. Almeida**, P. Kumar, “Numerical exploration of micropolar fluid stratified flow over curved stretching sheet under buoyancy effect, ZAMM – Journal of Applied Mathematics and Mechanics /Zeitschrift für Angewandte Mathematik und Mechanik (Wiley Online Library), Vol.104 No.12, (2024), <https://doi.org/10.1002/zamm.202300965> (Q2 - IF: 2.3) Oct 2024
 20. **F. Almeida**, M.L. Keerthi, P. Venkatesh, B.J. Gireesha, B. Nagaraja, P. Kumar, “Analogical elucidation of dusty hybrid nanofluid flow through the microchannel: An unsteady case, ZAMM - Journal of Applied Mathematics and Mechanics /Zeitschrift für Angewandte Mathematik und Mechanik (Wiley Online Library), Vol. 104 No. 11, (2024), <https://doi.org/10.1002/zamm.202200534>. (Q2 - IF: 2.3). Oct 2024
 21. P. Kumar, **F. Almeida**, B. Nagaraja, A.R. Ajaykumar, “Response surface methodology for the optimisation of heat transfer rate for concatenated non-Newtonian fluid flow over a curved stretching sheet”, Pramana (Springer), Vol. 99 No. 1, (2024), <https://doi.org/10.1007/s12043-024-02838-8>, (Q2 - IF: 1.9) Dec 2024
 22. P. Kumar, **F. Almeida**, Q. Al-Mdallal “Numerical illustration using finite difference method for the transient flow through porous microchannel and statistical interpretation of entropy using response surface methodology, Partial Differential Equations in Applied Mathematics (Elsevier), Vol. 12, (2024), <https://doi.org/10.1016/j.padiff.2024.100940>.(Q2) Sep 2024
 23. P. Kumar, **F. Almeida**, Q. Al-Mdallal “Advancement of nanoparticles in blood flow with non-linear radiation and optimisation of irreversibility within the microchannel using analysis of variance and Taguchi approach, International Journal of Thermofluids (Elsevier), Vol. 24, p. 100975, (2024), <https://doi.org/10.1016/j.ijft.2024.100975>. (Q1). Nov 2024
 24. **F. Almeida**, P. Kumar, A.R. Ajaykumar, B. Nagaraja, “Implementation of Artificial Neural Network using Levenberg Marquardt Algorithm for Casson Carreau Nanofluid Flow over Exponentially Stretching Curved Surface”, Neural Computing and Applications (Springer), (2024), 10.1007/s00521-024-10193-3. (Q1 - IF: 4.5). Aug 2024
 25. **F. Almeida**, P. Kumar, A.R. Ajaykumar, B. Nagaraja, Q. Al-Mdallal, “Application of design of experiments for single-attribute optimization using response surface methodology for flow over non-linear curved stretching sheet”, Alexandria Engineering Journal (Elsevier), (2024), Vol. 100, pp. 246-259, <https://doi.org/10.1016/j.aej.2024.05.039>. (Q1 - IF: 6.2). May 2024
 26. P. Kumar, **F. Almeida**, B. Nagaraja, A.R. Ajaykumar, Q. Al-Mdallal, “Neural Network Model using Levenberg Marquardt Back propagation Algorithm for the Prandtl Fluid Flow over Stratified Curved Sheet”, IEEE Access (IEEE), (2024), Vol. 12,10.1109/ACCESS.2024.3422099. (Q1 - IF:3.4). July 2024

27. A.R. Ajaykumar, P. Kumar, **F. Almeida**, B. Nagaraja, Q. Al-Mdallal, "Sensitivity analysis and response surface methodology for entropy optimization in the exponentially stretching stratified curved sheet for Casson Williamson nanofluid flow", *International Journal of Thermofluids* (Elsevier), (2024), Vol. 22, <https://doi.org/10.1016/j.ijft.2024.100668>. (Q1). April 2024
28. P. Kumar, N.G. Rudraswamy, A.R. Ajaykumar, **F. Almeida**, B. Nagaraja, S.A. Shehzad, "Optimization of Surface Drag Reduction Attribute of Non-Newtonian Nanofluids Flow Driven by Magnetic Dipole Enabled Curved Sheet", *Arabian Journal for Science and Engineering* (Springer), (2024), <https://doi.org/10.1007/s13369-024-09008-3>. (Q1 - IF:2.6) April 2024
29. B. Nagaraja, B.J. Gireesha, **F. Almeida**, P. Kumar, A.R. Ajaykumar, "Entropy analysis of Darcy-Forchheimer model of Prandtl nanofluid over a curved stretching sheet and heat transfer optimization by ANOVA-Taguchi technique", *Journal of Applied and Computational Mechanics* (Shahid Chamran University of Ahvaz), (2024), Vol. 10, No. 2, pp. 287-303, [10.22055/jacm.2023.44524.4229](https://doi.org/10.22055/jacm.2023.44524.4229). (Q2 - IF: 2.8). Nov 2023
30. **F. Almeida**, S. Sindhu, P. Venkatesh, B.J. Gireesha, "Delineation of Heat Transfer and Flow Analysis of Carreau Nanofluid Flow in Microchannel using Buongiorno Model", *International Journal of Modern Physics B* (World Scientific), (2024) Vol. 38 No. 3, <https://doi.org/10.1142/S0217979224500334>. (Q3 - IF:2.6) Jan 2024
31. **F. Almeida**, B.J. Gireesha, B. Nagaraja, P. Venkatesh and M.R. Krishnamurthy, "Mixed convective flow of Casson nanofluid in the microchannel with the effect of couple stresses: irreversibility analysis", *International Journal of Modelling and Simulation* (Taylor & Francis), (2024), Vol. 44 No. 2, pp. 91-105. (Q2) Jan 2023
32. **F. Almeida**, P. Venkatesh, B.J. Gireesha, Pradeep Kumar, B Nagaraja, "Entropy scrutinization of magnetized hyperbolic tangent nanofluid in the microchannel stuffed by porous media", *ZAMM Journal of Applied Mathematics and Mechanics /Zeitschrift für Angewandte Mathematik und Mechanik* (Wiley), <https://doi.org/10.1002/zamm.202300444>. (Q2 - IF: 2.3) June 2024
33. **F. Almeida**, B Nagaraja, Pradeep Kumar, A.R. Ajaykumar, "Irreversibility Analysis of Non-linear Mixed Convective Time-based Flow Analysis of Casson-Williamson Nanofluid Accelerated by Curved Stretching Surface", *Computational Thermal Sciences: An International Journal* (Begell House), Vol. 16 No. 5, (2024), pp. 15-41, [10.1615/ComputThermalScien.2024048166](https://doi.org/10.1615/ComputThermalScien.2024048166). (Q3 - IF:1.3) April 2024
34. **F. Almeida**, B.J. Gireesha, P. Venkatesh, B. Nagaraja, "KKL Model for Magnetized Al₂O₃-Nanoliquid Drift in Microchannel Reckoning Brownian Motion", *International Journal of Applied and Computational Mathematics* (Springer), Vol. 9 No. 6, (2023), <https://doi.org/10.1007/s40819-023-01634-z>. (Q3)
35. B. Nagaraja, **F. Almeida**, Yousef Ali, Pradeep Kumar, A.R. Ajaykumar, Qasem Al-Mdallal, "Empirical study for Nusselt number optimization for the flow using ANOVA and Taguchi method", *Case Studies in Thermal Engineering* (Elsevier), Vol.50, (2023), <https://doi.org/10.1016/j.csite.2023.103505>. (Q1 - IF:6.8)
36. Pradeep Kumar, A.R. Ajaykumar, **F. Almeida**, B. Nagaraja, Qasem Al-Mdallal, Youssef El-Khatib, "Model Designed to Acquire an Optimized Performance Implementing L27 Orthogonal Array for the Prandtl Fluid Flow Maneuvering Grey Relational Theory",

- International Journal of Thermofluids (Elsevier), Vol. 20, (2023), <https://doi.org/10.1016/j.ijft.2023.100490>. (Q1)
37. F. Almeida, Pradeep Kumar, B. Nagaraja, **F. Almeida**, A.R. Ajaykumar, Q. Mdallal, F. Jarad “Magnetic Dipole Effects on Unsteady Flow of Casson-Williamson Nanofluid Propelled by Stretching Slippery Curved Melting Sheet with Buoyancy Force, Scientific Reports (Springer), Vol.13 No.1, (2023), <https://doi.org/10.1038/s41598-023-39354-5>. (Q1 - IF:4.996)
 38. **F. Almeida**, Pradeep Kumar, B. Nagaraja, B.J. Gireesha, P. Venkatesh, “Parametric Optimization of Entropy using Sensitivity Analysis and Response Surface Methodology for the Compressed Flow of Hybrid Nanoliquid in a Stretchable Channel, Pramana-Journal of Physics (Springer), Vol. 97 No. 4, (2023). (Q2 - IF:2.8)
 39. **F. Almeida**, P. Venkatesh, B. J. Gireesha, M. R. Krishnamurthy, “Slip and convective flow of Williamson nanofluid influenced by Brownian motion and thermophoresis mechanism in a horizontal microchannel, Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, (2023), <https://doi.org/10.1177/23977914231177340>. (Q2 - IF:6)
 40. B. Nagaraja, A.R. Ajaykumar, **F. Almeida**, Pradeep Kumar, N.G. Rudraswamy, “Non-Darcy-Forchheimer flow of Casson-Williamson nanofluid on melting curved stretching sheet influenced by magnetic dipole”, Zamm- Zeitschrift Fur Angewandte Mathematik und Mechanik (Wiley Online Library), Vol. 103 No.10, (2023), <https://doi.org/10.1002/zamm.202300134>. (Q2 - IF:2.3)
 41. **F. Almeida**, B.J. Gireesha and P. Venkatesh, “Magnetohydrodynamic flow of amicropolar nanofluid in association with Brownian motion and thermophoresis: Irreversibility analysis”, Heat Transfer (Wiley Online Library), 10.1002/htj.22773. (Q2)
 42. **F. Almeida**, P. Venkatesh and B.J. Gireesha “Time-Reliant Flow of Casson Nanofluid with Gyrotactic Microbes through the Contracting/ Dilating walls of the Microchannel impelled by Chemical Reactions”, Brazilian Journal of Physics (Springer), Vol.52 No.4, (2022), pp.1-13. (Q3 - IF:1.326)
 43. **F. Almeida**, Hamza Berrehal, P. Venkatesh, B.J. Gireesha and G. Sowmya, “Slip flow of Walters B liquid through the channel possessing stretched walls by employing optimal homotopy asymptotic method (OHAM)”, Journal of Molecular Liquids (Elsevier), Vol. 353, (2022), 118731. (Q1 - IF : 5.3)
 44. Manthesha, B.J. Gireesha, **F. Almeida**, and Mallikarjun B. Patil, “Scrutinization of thermodynamic second law for the steady flow of couple stress nanofluid in an inclined microchannel by varying thermal conductivity”, Heat Transfer (Wiley Online Library), (2021), 10.1002/htj.22468. (Q2)
 45. P. Venkatesh, **F. Almeida**, B.J. Gireesha and B. Nagaraja, “Darcy-Forchheimer Convective Flow of Casson nanofluid in the Microchannel: Buongiorno Model”, JNNCE Journal of Engineering & Management, Vol. 5, No. 2, (2021).
 46. B.J. Gireesha, B. Nagaraja, N. Srikantha, N.G. Rudraswamy & **F. Almeida**, “Magnetically propelled Carreau fluid flow over Penetrable Sensor Surface Influenced by Thermal Radiation, Joule Heating and Heat Generation”, Communications in Theoretical Physics (IOP Science), (2021), <https://doi.org/10.1088/1572-9494/ac41c7>. (Q2- IF : 1.968)

47. **F. Almeida**, P. Venkatesh, B.J. Gireesha, B. Nagaraja, & K.M. Eshwarappa, "Compressed Flow of Hybridized Nanofluid Entwined Between Two Rotating Plates Exposed to Radiation", *Journal of Nanofluids* (American Scientific Publishers), Vol. 10 No. 2, (2021), pp. 186-199. (Q3)
48. **F. Almeida**, P. Venkatesh, B.J. Gireesha, D.O. Soumya & K.M. Eshwarappa, "Third Grade Fluid Flow in a Microchannel Crammed with Permeable Media Liable to Nonlinear Thermal Radiation", *International Journal of Ambient Energy* (Taylor and Francis), (2021), <https://doi.org/10.1080/01430750.2021.1965020>. (Q2)
49. P. Venkatesh, B.J. Gireesha & **F. Almeida**, "Investigation of irreversibilities in a microchannel by differing viscosity, including buoyancy forces and suction/injection", *Heat Transfer* (Wiley Online Library), Vol. 50 No.4, (2021), pp. 3620-3640. (Q2)
50. B.J. Gireesha, S Sindhu, G. Sowmya & **F. Almeida**, "Magnetohydrodynamic flow of Williamson fluid in a microchannel for both horizontal and inclined loci with wall shear properties", *Heat Transfer* (Wiley Online Library), (2021), Vol. 50 No. 2, pp.1428-1442. (Q2)
51. B.J. Gireesha, P. Venkatesh & **F. Almeida**, "Entropy scrutiny of couple stress nanoliquid flow with slip and convective conditions in an upright microchannel", *Physica Scripta* (IOP Science), Vol. 96 No. 4, (2021). (Q2 - IF : 2.487)
52. **F. Almeida**, B.J. Gireesha, P. Venkatesh & G. K. Ramesh, "Intrinsic irreversibility of Al₂O₃-H₂O nanofluid Poiseuille flow with variable viscosity and convective cooling", *International Journal of Numerical Methods for Heat and Fluid Flow* (Emerald), (2020), Vol. 31 No. 6, pp.2042-2063. (Q1 - IF : 4.17)

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1. S.C. Shiralashetti, **E. Harishkumar** & Savita Hanaji, "Haar Wavelet Operational Matrix Method for the Numerical Solution of Free Convection Vertical Flat Plate Embedded in a Saturated Porous Medium with Thermal Radiation", *International Journal of Ambient Energy* (Taylor & Francis), (2025), Vol. 46 No. 1. (Q2).
2. S.C. Shiralashetti, Savita Hanaji, S.S. Naregal & **E. Harishkumar**, "Taylor Wavelets Method for Solving the Distinctive Singular Ordinary Differential Equations Arising in Chemistry", *TWMS Journal of Applied and Engineering Mathematics*, S(1), (2023), 163-174, Feyziye Schools Foundation Işık University, Istanbul, Turkey. (Q2)
3. S.C. Shiralashetti, Savita Hanaji, V.R. Pala & **E. Harishkumar**, "Fibonacci Wavelet Collocation Scheme for the Numerical Solution of Nonlinear Ordinary Differential Equations", *TWMS Journal of Applied and Engineering Mathematics*, S(1), (2023), 191-199, Feyziye Schools Foundation Işık University, Istanbul, Turkey. (Q2)
4. S.C. Shiralashetti, **E. Harishkumar** & Savita Hanaji, "Boubaker Wavelet Operational Matrix Method for the Numerical Solution of Porous Medium Problem on Natural Convection of a Heated Vertical Plate with Internal Heat Generation", *TWMS Journal of Applied and Engineering Mathematics*, S(1), (2023), 175-190, Feyziye Schools Foundation Işık University, Istanbul, Turkey. (Q2)
5. S.C. Shiralashetti & **E. Harishkumar**, "Haar wavelet matrices for the numerical solution of system of ordinary differential equations", *Malaya Journal of Matematik*, S(1), (2020), 144-147, University Press.

6. S.C. Shiralashetti, **E. Harishkumar** & Savita Hanaji, “Muntz-Legendre Wavelet Operational Matrix Method to Compute a Numerical Solution for Thermal Radiation Effect on Natural Convection of a Boundary Layer Flow past a Vertical Plate Embedded in a Saturated Porous Medium”, Indian Journal of Science and Technology, 15(48), (2022), 2777-2790, Indian Society for Education and Environment, India. (Q3)
7. S.C. Shiralashetti, **E. Harishkumar** & Savita Hanaji, “Legendre wavelet operational matrix method for the analysis of thermal radiation effect on natural convection of a vertical plate embedded in a saturated porous medium”, International Journal of Ambient Energy, 44(1), (2023), 1512-1521, Taylor & Francis, United Kingdom. (Q2)