

CURRICULUM VITAE

Dr. N. Sandeep

Assistant Professor

Department of Mathematics

Central University of Karnataka

Kadaganchi-585367.

Mobile: +91- 8220636617

E-mail: dr.nsrh@gmail.com

ACADEMIC CREDENTIALS

- 2013 Ph.D., Mathematics, Sri Venkateswara University, Tirupati, A.P., India.
- 2006 M.Sc., Mathematics, Sri Venkateswara University, Tirupati, A.P., India.
- 2004 B.Sc., Maths, Physics, Electronics, Sri Venkateswara University, Tirupati, A.P., India.
- 2001 Intermediate., Maths, Physics, Chemistry, B.I.E, Andhra Pradesh, India.
- 1999 S.S.C., Board of Secondary Education, Andhra Pradesh, India.

AWARDS AND RECOGNITION

- 2017 “Dr.A.P.J.Abdul Kalam Award for Young Scientists-2017” from Marina Labs, Chennai, India.
- 2017 “Young Scientist Award-2016”, from the Academy of Sciences, Chennai, India.
- 2017 “Young Faculty Award” from Education Expo, New Delhi, India.
- 2014 “Dr. D. S. Kothari Postdoctoral Fellowship” by UGC-BSR, New Delhi, India.

BOOKS PUBLISHED

- Integral Transforms by KSR Publishers, India.
- Convective heat transfer in MHD nano and dusty nanofluids by LAMBERT Academic Publishing house, Germany.

MEMBERSHIP IN PROFESSIONAL BODIES

1. Lifetime Member of Andhra Pradesh Mathematical Society, India. (No. 819)
2. Life Member of Indian Society for Theoretical and Applied Mechanics, IIT, Kharagpur, India. (No. L/873)
3. Life Member of Indian Science Congress Association, India. (L34075)

4. Life member of Indian Society for Heat and Mass Transfer. (No. 1238)
5. Life Member of Indian Society for Applied Mechanics. (No. LM00063)
6. Life Member of Indian Mathematical Society. (No. 42015/99)
7. Life Member of Indian Society for History of Mathematics.
8. Member of APCBEES, Hong Kong. (No. 200893)
9. Member of International Association of Engineers, Hong Kong. (No. 141265)
10. Member of Int. Asso. of Computer Science and Information Technology, Singapore. (No. 80348501)

TEACHING EXPERIENCE

I served as a Lecturer in Mathematics at Vijayam Degree & P.G. College, Chittoor, A.P., India, during 2006-08. Further, I worked as a Lecturer at R.K.M Degree College, Chittoor, A.P., during 2008-09. During 2009-10, I served as an Assistant Professor at Siddhartha Educational Academy, A.P., India. In 2013, I joined as an Assistant Professor at VIT University, Vellore, India. Present I am working as an Assistant Professor at Central University of Karnataka, India.

INVITED LECTURES/TALKS DELIVERED

1. Delivered a guest lecture on “Applications of Mathematics” held at the RKM Degree College, Chittoor, Andhra Pradesh.
2. Delivered a guest lecture on “Heat transfer in Nanofluids” held at the Government Degree and P.G.College, Puttur, Andhra Pradesh.
3. Delivered an invited talk on the national seminar on “Matlab and its Applications” held at Thiruvalluvar University, Vellore, Tamil Nadu.
4. Delivered an invited talk on the national workshop on “Discrete Mathematics, Modelling and Computational Techniques in Sciences and Engineering” held at M.S.Ramaiah Institute of Technology, Bengaluru, Karnataka.
5. Delivered an invited talk on the National Symposium on “Real Life Applications of Mathematics using Matlab” held at P.V.K.N Government Degree & P.G. College, Chittoor, Andhra Pradesh, India.

PUBLICATION DETAILS (SCI & Scopus Indexed Publications)

1. N.A. Shah, I.L. Animasaun, R.O. Ibraheem, H.A. Babatunde, N. Sandeep, I. Pop, Scrutinization of the effects of Grashof number on the flow of different fluids driven by convection over various surfaces, *J. Mol. Liq.* 249 (2018) 980–990. doi:10.1016/j.molliq.2017.11.042. **(IF 3.648)**
2. O.D. Makinde, N. Sandeep, T.M. Ajayi, I.L. Animasaun, Numerical Exploration of Heat Transfer and Lorentz Force Effects on the Flow of MHD Casson Fluid over an Upper Horizontal Surface of a Thermally Stratified Melting Surface of a Paraboloid of Revolution, *Int. J. of Nonlinear Sciences and Numerical Simulation*, 19 (2018) 93–106. **(IF 0.89)**
3. N. Sandeep, M.G. Reddy, Heat transfer of nonlinear radiative magnetohydrodynamic Cu-water nanofluid flow over two different geometries, *J. Mol. Liq.* 225 (2017) 87–94. doi:10.1016/j.molliq.2016.11.026. **(IF 3.648)**
4. C.S.K. Raju, N. Sandeep, Unsteady Casson nanofluid flow over a rotating cone in a rotating frame filled with ferrous nanoparticles: A numerical study, *J. Magn. Mater.* 421 (2017) 216–224. doi:10.1016/j.jmmm.2016.08.013. **(IF 2.630)**
5. J. V. Ramana Reddy, V. Sugunamma, N. Sandeep, Enhanced heat transfer in the flow of dissipative non-Newtonian Casson fluid flow over a convectively heated upper surface of a paraboloid of revolution, *J. Mol. Liq.* 229 (2017) 380–388. doi:10.1016/j.molliq.2016.12.100. **(IF 3.648)**
6. G. Kumaran, N. Sandeep, Thermophoresis and Brownian moment effects on parabolic flow of MHD Casson and Williamson fluids with cross diffusion, *J. Mol. Liq.* 233 (2017) 262–269. doi:10.1016/j.molliq.2017.03.031. **(IF 3.648)**
7. M. Jayachandra Babu, N. Sandeep, UCM flow across a melting surface in the presence of double stratification and cross-diffusion effects, *J. Mol. Liq.* 232 (2017) 27–35. doi:10.1016/j.molliq.2017.02.063. **(IF 3.648)**
8. O.K. Koriko, A.J. Omowaye, N. Sandeep, I.L. Animasaun, Analysis of boundary layer formed on an upper horizontal surface of a paraboloid of revolution within nanofluid flow in the presence of thermophoresis and Brownian motion of 29 nm CuO, *Int. J. Mech. Sci.* 124-125 (2017) 22–36. doi:10.1016/j.ijmecsci.2017.02.020. **(IF 2.884)**
9. G. Sucharitha, P. Lakshminarayana, N. Sandeep, Joule heating and wall flexibility effects on the peristaltic flow of magnetohydrodynamic nanofluid, *Int. J. Mech. Sci.* 131-132 (2017) 52–62. doi:10.1016/j.ijmecsci.2017.06.043. **(IF 2.884)**

10. N. Nithyadevi, P. Gayathri, N. Sandeep, Boundary stratum exploration of unsteady 3D MHD stagnation point flow of Al–Cu water nanofluid, *Int. J. Mech. Sci.* 131-132 (2017) 827–835. doi:10.1016/j.ijmecsci.2017.08.003. **(IF 2.884)**
11. C. Sulochana, S.P. Samrat, N. Sandeep, Boundary layer analysis of an incessant moving needle in MHD radiative nanofluid with joule heating, *Int. J. Mech. Sci.* 128-129 (2017) 326–331. doi:10.1016/j.ijmecsci.2017.05.006. **(IF 2.884)**
12. N. Sandeep, R.P. Sharma, M. Ferdows, Enhanced heat transfer in unsteady magnetohydrodynamic nanofluid flow embedded with aluminum alloy nanoparticles, *J. Mol. Liq.* 234 (2017) 437–443. doi:10.1016/j.molliq.2017.03.051. **(IF 3.648)**
13. J. V. Ramana Reddy, V. Sugunamma, N. Sandeep, Impact of nonlinear radiation on 3D magnetohydrodynamic flow of methanol and kerosene based ferrofluids with temperature dependent viscosity, *J. Mol. Liq.* 236 (2017) 93–100. doi:10.1016/j.molliq.2017.04.011. **(IF 3.648)**
14. J. V. Ramana Reddy, V. Sugunamma, N. Sandeep, Effect of frictional heating on radiative ferrofluid flow over a slendering stretching sheet with aligned magnetic field, *Eur. Phys. J. Plus.* 132 (2017). doi:10.1140/epjp/i2017-11287-1. **(IF 1.753)**
15. N. Sandeep, M. Gnaneswara Reddy, MHD Oldroyd-B fluid flow across a melting surface with cross diffusion and double stratification, *Eur. Phys. J. Plus.* 132 (2017). doi:10.1140/epjp/i2017-11417-9. **(IF 1.753)**
16. P.M. Krishna, N. Sandeep, R.P. Sharma, Computational analysis of plane and parabolic flow of MHD Carreau fluid with buoyancy and exponential heat source effects, *Eur. Phys. J. Plus.* 132 (2017). doi:10.1140/epjp/i2017-11469-9. **(IF 1.753)**
17. C. Sulochana, G.P. Ashwinkumar, N. Sandeep, Joule heating effect on a continuously moving thin needle in MHD Sakiadis flow with thermophoresis and Brownian moment, *Eur. Phys. J. Plus.* 132 (2017). doi:10.1140/epjp/i2017-11633-3. **(IF 1.753)**
18. M. Gnaneswara Reddy, N. Sandeep, Computational modelling and analysis of heat and mass transfer in MHD flow past the upper part of a paraboloid of revolution, *Eur. Phys. J. Plus.* 132 (2017). doi:10.1140/epjp/i2017-11483-y. **(IF 1.753)**
19. C.S.K. Raju, N. Sandeep, MHD slip flow of a dissipative Casson fluid over a moving geometry with heat source/sink: A numerical study, *Acta Astronaut.* 133 (2017) 436–443. doi:10.1016/j.actaastro.2016.11.004. **(IF 1.536)**
20. N. Sandeep, Effect of aligned magnetic field on liquid thin film flow of magnetic-nanofluids embedded with graphene nanoparticles, *Adv. Powder Technol.* 28 (2017) 865–875. doi:10.1016/j.appt.2016.12.012. **(IF 2.659)**

21. M.E. Ali, N. Sandeep, Cattaneo-Christov model for radiative heat transfer of magnetohydrodynamic Casson-ferrofluid: A numerical study, *Results Phys.* 7 (2017) 21–30. doi:10.1016/j.rinp.2016.11.055. **(IF 0.946)**
22. M. Jayachandra Babu, N. Sandeep, M.E. Ali, A.O. Nuhait, Magnetohydrodynamic dissipative flow across the slendering stretching sheet with temperature dependent variable viscosity, *Results Phys.* 7 (2017) 1801–1807. doi:10.1016/j.rinp.2017.05.018. **(IF 0.946)**
23. K.U. Rehman, A.A. Malik, M.Y. Malik, N. Sandeep, N.U. Saba, Numerical study of double stratification in Casson fluid flow in the presence of mixed convection and chemical reaction, *Results Phys.* 7 (2017) 2997–3006. **(IF 0.946)**
24. S. Saleem, M. Awais, S. Nadeem, N. Sandeep, M.T. Mustafa, Theoretical analysis of upper-convected Maxwell fluid flow with Cattaneo–Christov heat flux model, *Chinese J. Phys.* 55 (2017) 1615–1625. doi:10.1016/j.cjph.2017.04.005. **(IF 0.514)**
25. N. Sandeep, A.J. Chamkha, I.L. Animasaun, Numerical exploration of magnetohydrodynamic nanofluid flow suspended with magnetite nanoparticles, *J. Brazilian Soc. Mech. Sci. Eng.* 39 (2017) 3635–3644. **(IF 1.235)**
26. M.S. Kumar, N. Sandeep, B.R. Kumar, Three-dimensional magnetohydrodynamic rotating flow past a stretched surface with cross diffusion, *Chinese J. Phys.* 55 (2017) 2407–2421. doi:10.1016/j.cjph.2017.09.014. **(IF 0.514)**
27. N. Sandeep, I.L. Animasaun, Theoretical Exploration of Exponential Heat Source and Thermal Stratification Effects on the Motion of 3-Dimensional Flow of Casson Fluid over a Low Heat Energy Surface at Initial Unsteady Stage, *J. Theor. Appl. Mech.* 47 (2017) 61–82. doi:10.1515/jtam-2017-0010. **(IF 0.683)**
28. J.V.R. Reddy, V. Sugunamma, N. Sandeep, Cross diffusion effects on MHD flow over three different geometries with Cattaneo-Christov heat flux, *J. Mol. Liq.* 223 (2016). doi:10.1016/j.molliq.2016.09.047. **(IF 3.648)**
29. N. Sandeep, O.K. Koriko, I.L. Animasaun, Modified kinematic viscosity model for 3D-Casson fluid flow within boundary layer formed on a surface at absolute zero, *J. Mol. Liq.* 221 (2016). doi:10.1016/j.molliq.2016.06.049. **(IF 3.648)**
30. C.S.K. Raju, N. Sandeep, A. Malvandi, Free convective heat and mass transfer of MHD non-Newtonian nanofluids over a cone in the presence of non-uniform heat source/sink, *J. Mol. Liq.* 221 (2016). doi:10.1016/j.molliq.2016.05.078. **(IF 3.648)**

31. C.S.K. Raju, N. Sandeep, Heat and mass transfer in MHD non-Newtonian bio-convection flow over a rotating cone/plate with cross diffusion, *J. Mol. Liq.* 215 (2016). doi:10.1016/j.molliq.2015.12.058. **(IF 3.648)**
32. N. Sandeep, A. Malvandi, Enhanced heat transfer in liquid thin film flow of non-Newtonian nanofluids embedded with graphene nanoparticles, *Adv. Powder Technol.* 27 (2016). doi:10.1016/j.appt.2016.08.023.v **(IF 2.659)**
33. M. Jayachandra Babu, N. Sandeep, Three-dimensional MHD slip flow of nanofluids over a slendering stretching sheet with thermophoresis and Brownian motion effects, *Adv. Powder Technol.* 27 (2016). doi:10.1016/j.appt.2016.07.013. **(IF 2.659)**
34. C.S.K. Raju, N. Sandeep, A comparative study on heat and mass transfer of the Blasius and Falkner-Skan flow of a bio-convective Casson fluid past a wedge, *Eur. Phys. J. Plus.* 131 (2016). doi:10.1140/epjp/i2016-16405-y. **(IF 1.753)**
35. C.S.K. Raju, N. Sandeep, V. Sugunamma, Unsteady magneto-nanofluid flow caused by a rotating cone with temperature dependent viscosity: A surgical implant application, *J. Mol. Liq.* 222 (2016). doi:10.1016/j.molliq.2016.07.143. **(IF 3.648)**
36. I.L. Animasaun, N. Sandeep, Buoyancy induced model for the flow of 36 nm alumina-water nanofluid along upper horizontal surface of a paraboloid of revolution with variable thermal conductivity and viscosity, *Powder Technol.* 301 (2016). doi:10.1016/j.powtec.2016.07.023. **(IF 2.942)**
37. M.J. Babu, N. Sandeep, 3D MHD slip flow of a nanofluid over a slendering stretching sheet with thermophoresis and Brownian motion effects, *J. Mol. Liq.* 222 (2016). doi:10.1016/j.molliq.2016.08.005. **(IF 3.648)**
38. C.S.K. Raju, N. Sandeep, A. Malvandi, Free convective heat transfer of MHD Cu-kerosene nanofluid over a cone with temperature dependent viscosity, *Acta Astronaut.* 129 (2016). doi:10.1016/j.actaastro.2016.10.011. **(IF 1.536)**
39. C.S.K. Raju, N. Sandeep, C. Sulochana, M. Jayachandra Babu, Dual solutions of MHD boundary layer flow past an exponentially stretching sheet with non-uniform heat source/sink, *J. Appl. Fluid Mech.* 9 (2016). **(IF 0.888)**
40. C. Sulochana, N. Sandeep, Flow and heat transfer behavior of MHD dusty nanofluid past a porous stretching/shrinking cylinder at different temperatures, *J. Appl. Fluid Mech.* 9 (2016). **(IF 0.888)**
41. C.S.K. Raju, N. Sandeep, Falkner-Skan flow of a magnetic-Carreau fluid past a wedge in the presence of cross diffusion effects, *Eur. Phys. J. Plus.* 131 (2016). doi:10.1140/epjp/i2016-16267-3. **(IF 1.753)**

42. C.Sulochana, N.Sandeep, Stagnation-point flow and heat transfer behavior of Cu-water nanofluid towards horizontal and exponentially stretching/shrinking cylinders. *Applied Nanoscience*, 6 (2016) 451-459. **(IF 3.325)**
43. N.Sandeep, C.Sulochana, Dual solutions of radiative MHD nanofluid flow over an exponentially stretching sheet with heat generation/absorption, *Appl Nanosci* (2016) 6: 131. <https://doi.org/10.1007/s13204-015-0420-z>. **(IF 3.325)**
44. N. Sandeep, B. Rushi Kumar, M.S. Jagadeesh Kumar, A comparative study of convective heat and mass transfer in non-Newtonian nanofluid flow past a permeable stretching sheet, *J. Mol. Liq.* 212 (2015). doi:10.1016/j.molliq.2015.10.010. **(IF 3.648)**
45. C.Sulochana, N.Sandeep, V.Sugunamma, B.Rushi Kumar, Aligned magnetic field and cross diffusion effects of a nanofluid over an exponentially stretching surface in porous medium, *Applied Nano Sci.*, 6, 737-746. **(IF 3.325)**
46. C.S.K. Raju, N. Sandeep, M.E. Ali, Effect of temperature dependent viscosity on MHD radiative nanofluid flow caused by Heated/Cooled cone, *J. Comput. Theor. Nanosci.* 14 (2017) 821–828. doi:10.1166/jctn.2017.6280.
47. O.K. Koriko, I.L. Animasaun, M.G. Reddy, N. Sandeep, Scrutinization of thermal stratification, nonlinear thermal radiation and quartic autocatalytic chemical reaction effects on the flow of three-dimensional Eyring-Powell alumina-water nanofluid, *Multidiscip. Model. Mater. Struct.* (2018). doi:10.1108/MMMS-08-2017-0077.
48. M. Sathish Kumar, N. Sandeep, B. Rushi Kumar, Free convective heat transfer of MHD dissipative Carreau nanofluid flow over a stretching sheet, *Front. Heat Mass Transf.* 8 (2017). doi:10.5098/hmt.8.13.
49. C. Sulochana, G.P. Ashwinkumar, N. Sandeep, Effect of frictional heating on mixed convection flow of chemically reacting radiative Casson nanofluid over an inclined porous plate, *Alexandria Eng. J.* (2017). doi:10.1016/j.aej.2017.08.006.
50. C. Sulochana, G.P. Ashwinkumar, N. Sandeep, Boundary layer analysis of persistent moving horizontal needle in magnetohydrodynamic ferrofluid: A numerical study, *Alexandria Eng. J.* (2017). doi:10.1016/j.aej.2017.08.020.
51. R.P. Sharma, K. Avinash, N. Sandeep, O.D. Makinde, Thermal Radiation Effect on Non-Newtonian Fluid Flow over a Stretched Sheet of Non-Uniform Thickness, 2017. doi:10.4028/www.scientific.net/DDF.377.242.

- 52.K. Avinash, N. Sandeep, O.D. Makinde, I.L. Animasaun, Aligned magnetic field effect on radiative bioconvection flow past a vertical plate with thermophoresis and brownian motion, 2017. doi:10.4028/www.scientific.net/DDF.377.127.
- 53.M. Sathish Kumar, N. Sandeep, B. Rushi Kumar, Unsteady MHD nonlinear radiative squeezing slip-flow of Casson fluid between parallel disks, *J. Comput. Appl. Res. Mech. Eng.* 7 (2017). doi:10.22061/JCARME.2017.644.
- 54.M. Sathish Kumar, N. Sandeep, B. Rushi Kumar, P.A. Dinesh, A comparative analysis of magnetohydrodynamic non-Newtonian fluids flow over an exponential stretched sheet, *Alexandria Eng. J.* (2017). doi:10.1016/j.aej.2017.06.002.
- 55.K. Pushpalatha, J. V. Ramana Reddy, V. Sugunamma, N. Sandeep, Numerical study of chemically reacting unsteady Casson fluid flow past a stretching surface with cross diffusion and thermal radiation, *Open Eng.* 7 (2017) 69–76. doi:10.1515/eng-2017-0013.
- 56.J.V.R. Reddy, V. Sugunamma, N. Sandeep, Dual solutions for heat and mass transfer in chemically reacting radiative non-newtonian fluid with aligned magnetic field, *J. Nav. Archit. Mar. Eng.* 14 (2017) 25–38. doi:10.3329/jname.v14i1.25907.
- 57.G. Kumaran, N. Sandeep, M.E. Ali, Computational analysis of magnetohydrodynamic Casson and Maxwell flows over a stretching sheet with cross diffusion, *Results Phys.* 7 (2017) 147–155. doi:10.1016/j.rinp.2016.12.011.
- 58.N. Sandeep, C. Sulochana, MHD flow and heat transfer of a dusty nanofluid over a stretching surface in porous medium, *Ain Shams. Eng.J* 7 (2016) .
- 59.O.D. Makinde, N. Sandeep, I.L. Animasaun, M.S. Tshela, Numerical exploration of cattaneo-christov heat flux and mass transfer in magnetohydrodynamic flow over various geometries, 2017. doi:10.4028/www.scientific.net/DDF.374.67.
- 60.M. Sathish Kumar, N. Sandeep, B. Rushi Kumar, J. Prakash, Effect of Cattaneo-Christov heat flux on nonlinear radiative MHD flow of casson fluid induced by a semi-infinte stretching surface, *Front. Heat Mass Transf.* 8 (2017). doi:10.5098/hmt.8.8.
- 61.C. Sulochana, G.P. Ashwinkumar, N. Sandeep, Effect of thermophoresis and brownian moment on 2D MHD nanofluid flow over an elongated sheet, 2017. doi:10.4028/www.scientific.net/DDF.377.111.
- 62.P. Mohan Krishna, R.P. Sharma, N. Sandeep, Boundary layer analysis of persistent moving horizontal needle in Blasius and Sakiadis magnetohydrodynamic radiative

- nanofluid flows, *Nucl. Eng. Technol.* 49 (2017) 1654–1659. doi:10.1016/j.net.2017.07.023.
- 63.M. Gnanaswara Reddy, N. Sandeep, Free convective heat and mass transfer of magnetic bio-convective flow caused by a rotating cone and plate in the presence of nonlinear thermal radiation and cross diffusion, *J. Comput. Appl. Res. Mech. Eng.* 7 (2017). doi:10.22061/JCARME.2017.641.
- 64.M. Sathish Kumar, N. Sandeep, B. Rushi Kumar, Effect of nonlinear thermal radiation on magnetohydrodynamic wall jet flow, *Front. Heat Mass Transf.* 9 (2017). doi:10.5098/hmt.9.10.
- 65.P.M. Krishna, N. Sandeep, R.P. Sharma, O.D. Makinde, Thermal radiation effect on 3D slip motion of AlCu-water and Cu-water nanofluids over a variable thickness stretched surface, 2017. doi:10.4028/www.scientific.net/DDF.377.141.
- 66.O.A. Abegunrin, I.L. Animasaun, N. Sandeep, Insight into the boundary layer flow of non-Newtonian Eyring-Powell fluid due to catalytic surface reaction on an upper horizontal surface of a paraboloid of revolution, *Alexandria Eng. J.* (2017). doi:10.1016/j.aej.2017.05.018.
- 67.J.V. Ramana Reddy, V. Sugunamma, N. Sandeep, C.S.K. Raju, Chemically reacting MHD dusty nanofluid flow over a vertical cone with non-uniform heat source/sink, *Walailak J. Sci. Technol.* 14 (2017) 141–156.
- 68.N. Sandeep, I.L. Animasaun, M.E. Ali, Unsteady liquid film flow of electrically conducting magnetic-nanofluids in the vicinity of a thin elastic sheet, *J. Comput. Theor. Nanosci.* 14 (2017) 1140–1147. doi:10.1166/jctn.2017.6418.
- 69.N. Sandeep, C. Sulochana, B.R. Kumar, Flow and heat transfer in MHD dusty nanofluid past a stretching/ shrinking surface with non-uniform heat source/sink, *Walailak J. Sci. Technol.* 14 (2017) 117–140. doi:10.14456/vol13iss9pp%p.
- 70.N. Sandeep, I.L. Animasaun, Heat transfer in wall jet flow of magnetic-nanofluids with variable magnetic field, *Alexandria Eng. J.* 56 (2017) 263–269. doi:10.1016/j.aej.2016.12.019.
- 71.C. Sulochana, S.P. Samrat, N. Sandeep, Magnetohydrodynamic radiative nanofluid flow over a rotating surface with Soret effect, *Multidiscip. Model. Mater. Struct.* (2017). doi:10.1108/MMMS-05-2017-0042.
- 72.M. Girinath Reddy, P.A. Dinesh, N. Sandeep, Effects of variable viscosity and porosity of fluid, Soret and Dufour mixed double diffusive convective flow over an

- accelerating surface, in: IOP Conf. Ser. Mater. Sci. Eng., 2017. doi:10.1088/1757-899X/263/6/062012.
- 73.S.R. Reddisekhar Reddy, P. Bala Anki Reddy, N. Sandeep, Numerical study on slip effects on aligned magnetic field flow over a permeable stretching surface with thermal radiation and viscous dissipation, in: IOP Conf. Ser. Mater. Sci. Eng., 2017.
- 74.B. Rushi Kumar, H. Thameem Basha, R. Sivaraj, N. Sandeep, Effect of thermal radiation on chemically reacting magnetohydrodynamic dusty viscous fluid flow in a porous channel, in: IOP Conf. Ser. Mater. Sci. Eng., 2017. doi:10.1088/1757-899X/263/6/062028.
- 75.G. Sucharitha, P. Lakshminarayana, N. Sandeep, Dual solutions of cross diffusion effects on MHD Peristaltic flow in a conduit, in: IOP Conf. Ser. Mater. Sci. Eng., 2017. doi:10.1088/1757-899X/263/6/062024.
- 76.G. Kumaran, N. Sandeep, R. Vijayaragavan, Melting heat transfer in magnetohydrodynamic radiative Williamson fluid flow with non-uniform heat source/sink, in: IOP Conf. Ser. Mater. Sci. Eng., 2017. doi:10.1088/1757-899X/263/6/062022.
- 77.M. Sathish Kumar, N. Sandeep, B. Rushi Kumar, R. Vijayaragavan, Effect of non-linear thermal radiation on MHD Sisko nanofluid flow over a bidirectional stretching surface, in: IOP Conf. Ser. Mater. Sci. Eng., 2017. doi:10.1088/1757-899X/263/6/062023.
- 78.M. Jayachandra Babu, N. Sandeep, S. Saleem, Free convective MHD Cattaneo-Christov flow over three different geometries with thermophoresis and Brownian motion, Alexandria Eng. J. 56 (2017) 659–669. doi:10.1016/j.aej.2017.01.005.
- 79.J.V.R. Reddy, V. Sugunamma, N. Sandeep, Effect of nonlinear thermal radiation on MHD flow between rotating plates with homogeneous-heterogeneous reactions, Int. J. Eng. Res. Africa. 20 (2016) 60–65. doi:10.4028/www.scientific.net/JERA.20.130.
- 80.C. Raju, N. Sandeep, The effect of thermal radiation on MHD ferrofluid flow over a truncated cone in the presence of non-uniform heat source/sink, Glob. J. Pure Appl. Math. 12 (2016) 9–15.
- 81.C.S.S.S.P.N. Sandeep, Non-uniform heat source or sink effect on the flow of 3D Casson fluid in the presence of Soret and thermal radiation, Int. J. Eng. Res. Africa. 20 (2016) 112–129. doi:10.4028/www.scientific.net/JERA.20.112.

82. J. V. Ramana Reddy, V. Sugunamma, N. Sandeep, K. Anantha Kumar, Influence of non-uniform heat source/sink on MHD nano fluid flow past a slendering stretching sheet with slip effects, *Glob. J. Pure Appl. Math.* 12 (2016) 247–254.
83. C.S.K. Raju, N. Sandeep, V. Sugunamma, M. Jayachandra Babu, J. V. Ramana Reddy, Heat and mass transfer in magnetohydrodynamic Casson fluid over an exponentially permeable stretching surface, *Eng. Sci. Technol. an Int. J.* 19 (2016) 45–52. doi:10.1016/j.jestch.2015.05.010.
84. C. Sulochana, S.P. Samrat, N. Sandeep, Thermal Radiation Effect on MHD Nanofluid Flow over a Stretching Sheet, *Int. J. Eng. Res. Africa.* 23 (2016) 89–102. doi:10.4028/www.scientific.net/JERA.23.89.
85. M. Satish Kumar, N. Sandeep, B. Rushi Kumar, Dual solutions for heat and mass transfer in MHD bio-convective flow over a stretching/shrinking surface with suction/injection, *Int. J. Eng. Res. Africa.* 21 (2016). doi:10.4028/www.scientific.net/JERA.21.84.
86. N. Sandeep, M.S.J. Kumar, Heat and Mass Transfer in Nanofluid Flow over an Inclined Stretching Sheet with Volume Fraction of Dust and Nanoparticles, *J. Appl. Fluid Mech.* 9 (2016) 2205–2215.
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90. C.S.K. Raju, N. Sandeep, Effects of induced magnetic field and nonlinear thermal radiation on Williamson nano fluid past a stretching surface, *Int. J. Appl. Eng. Res.* 11 (2016) 41–49.
91. C.S.K. Raju, N. Sandeep, M. Ganeswara Reddy, Effect of nonlinear thermal radiation on 3D Jeffrey fluid flow in the presence of homogeneous-heterogeneous reactions, *Int. J. Eng. Res. Africa.* 21 (2016) 52–68. doi:10.4028/www.scientific.net/JERA.21.52.

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93. P.M. Krishna, N. Sandeep, J.V.R. Reddy, V. Sugunamma, Dual solutions for unsteady flow of Powell-Eyring fluid past an inclined stretching sheet, *J. Nav. Archit. Mar. Eng.* 13 (2016) 89–99. doi:10.3329/jname.v13i1.25338.
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- uniform heat source/sink: A comparative study, *Alexandria Eng. J.* (2016). doi:10.1016/j.aej.2017.03.008.
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116. C.S.K. Raju, N. Sandeep, Heat and mass transfer in 3D non-Newtonian nano and ferro fluids over a bidirectional stretching surface, *Int. J. Eng. Res. Africa.* 21 (2016). doi:10.4028/www.scientific.net/JERA.21.33.
117. C.S.K. Raju, M.J. Babu, N. Sandeep, Chemically reacting radiative MHD Jeffrey nanofluid flow over a cone in porous medium, *Int. J. Eng. Res. Africa.* 19 (2016). doi:10.4028/www.scientific.net/JERA.19.75.
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122. P.M. Krishna, N. Sandeep, V. Sugunamma, Effects of radiation and chemical reaction on MHD convective flow over a permeable stretching surface with suction and heat generation, *Walailak J. Sci. Technol.* 12 (2015).
123. N. Sandeep, C. Sulochana, Momentum and heat transfer behaviour of Jeffrey, Maxwell and Oldroyd-B nanofluids past a stretching surface with non-uniform heat source/sink, *Ain Shams Eng. J.* (2015). doi:10.1016/j.asej.2016.02.008.

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- 126.R.S. Grover, S. Kishore, N. Gaude, N. Sandeep, Interactive system with artificial intelligence, *Int. J. Appl. Eng. Res.* 8 (2013).

ARTICLES IN REFEREED CONFERENCE PROCEEDINGS

1. J.V.Ramana Reddy, V.Sugunamma, N.Sandeep, Influence Of Frictional Heating On MD Chemically Reacting Casson Fluid Flow Past A Non Linear Stretching Surface With Convective Boundary Conditions, *Open Journal of Applied & Theoretical Mathematics*, 2(4), 466-483, 2016.
2. V.Sugunamma, A.Mohanrami Reddy, N.Sandeep, Similarity solution for heat transfer in MHD non-Newtonian fluid flow past a stretching surface, *Global Journal of Pure and Applied Mathematics*, 12(3), 95-99, 2016.
3. R. Vijayaragavan, N.Sandeep, K.Nithya, Heat transfer characteristics of MHD Sisko nanofluid flow past a bidirectional stretching surface, *Global Journal of Pure and Applied Mathematics*, 12(3), 263-269, 2016.
4. V. Sugunamma, K. Bhagyalakshmi, N. Sandeep, J.V.Ramana Reddy, Boundary layer flow of Casson fluid past a bidirectional stretching surface with cross diffusion, *Global Journal of Pure and Applied Mathematics*, 12(3), 88-94, 2016.
5. J.V.Ramana Reddy, V.Sugunamma, N.Sandeep, MHD ferrofluid flow due to bidirectional exponentially stretching surface, *Global Journal of Pure and Applied Mathematics*, 12(3), 107-113, 2016.
6. C.Sulochana, G.P.Ashwin Kumar, N.Sandeep, Heat and mass transfer in MHD dissipative flow in the presence of cross diffusion, *Global Journal of Pure and Applied Mathematics*, 12(3), 49-55, 2016.
7. C.Sulochana, M.K.Kishor Kumar, N.Sandeep, Chemically reacting radiative flow in the presence of aligned magnetic field and viscous dissipation, *Global Journal of Pure and Applied Mathematics*, 12(3), 56-61, 2016.
8. C.Sulochana, S.P.Samrat, N.Sandeep, Effect of nonlinear thermal radiation on chemically reacting MHD flow due to stretching/shrinking surface, *Global Journal of*

- Pure and Applied Mathematics, 12(3),62-67, 2016.
9. C.S.K.Raju, N.Sandeep, The effect of thermal radiation on MHD ferrofluid flow over a truncated cone in the presence of non-uniform heat source/sink, Global J. Pure and Applied Mathematics, 12(1), 9-15, 2016.
 10. J.V.Ramana Reddy, V.Sugunamma, N.Sandeep, K. Anantha Kumar, Influence of non-uniform heat source/sink on MHD nanofluid flow past a slandering stretching sheet with slip effects, Global J. Pure and Applied Mathematics, 12(1), 247-254, 2016.
 11. M.Sathish Kumar, N.Sandeep, B.Rushi Kumar, Effect of nonlinear thermal radiation on unsteady MHD flow between parallel plates, Global J. Pure and Applied Mathematics, 12(1), 60-65, 2016.
 12. M.Sathish Kumar, N.Sandeep, B.Rushi Kumar, Non-uniform heat source/sink effect on Casson fluid flow between rotating plates in the presence of magnetic field, International Journal of Applied Engineering Research, 11(1), 103-109, 2016.
 13. K.Anantha Kumar, V.Sugunamma, J.V.Ramana Reddy, N.Sandeep, Influence Of Thermal Radiation And Chemical Reaction On MHD Williamson Fluid Flow Over An Exponentially Stretching Sheet With Suction, Open Journal of Applied & Theoretical Mathematics, 2(4), 181-198, 2016.
 14. C.S.K.Raju, N.Sandeep, Effect of induced magnetic field and nonlinear thermal radiation on Williamson nanofluid past a stretching surface, International Journal of Applied Engineering Research, 11(1), 41-49, 2016.
 15. J.V.Ramana Reddy, N.Sandeep, V.Sugunamma, MHD Flow of a Nanofluid Embedded with Dust Particles Due to Cone with Volume Fraction of Dust and Nano Particles, Procedia Engineering, 127, 1026-1033, 2015.
 16. P.Mohan Krishna, G.Vidya Sagar, N.Sandeep, V.Sugunamma, Soret and Dufour effects on MHD free convective flow over a permeable stretching surface with chemical reaction and heat source, Int.J.Scientific and Eng. Research, 6(9), 143-147, 2015.
 17. M.Jayachandra Babu, C.S.K.Raju, N.Sandeep, Stagnation point flow of a micropolar fluid over a nonlinear stretching surface with suction, Int.J.Scientific and Eng. Research, 6(9), 67-73, 2015.
 18. V.Sugunamma, C.Sulochana, N.Sandeep, J.V.Ramana Reddy, MHD nanofluid flow over an exponentially stretching surface with suction/injection, Int.J.Scientific and Eng. Research, 6(9), 50-56, 2015.
 19. N.Sandeep, C.Sulochana, V.Sugunamma, Stagnation point flow and heat transfer of a

nanofluid towards a stretching/shrinking cylinders, Int.J.Scientific and Eng. Research, 6(9), 43-49, 2015.

20. C.S.K.Raju, M.Jayachandra Babu, N.Sandeep, P.Mohan Krishna, Influence of non-uniform heat source/sink on MHD nano fluid flow over a moving vertical plate in porous medium, Int.J.Scientific and Eng. Research, 6(9), 31-42, 2015.

RESEARCH INTERESTS

- Convective Heat and Mass Transfer in MHD flows.
- Heat and Mass Transfer in Nanofluids.
- Heat and Mass Transfer in Dusty fluids.
- Heat and Mass Transfer in Dusty nanofluids.
- Ordinary and Partial Differential equations.
- Flows through porous media.

PAPER PRESENTATIONS IN INTERNATIONAL CONFERENCES

1. Presented a paper entitled “ Heat and Mass transfer in parabolic flow of MHD nanofluid” on 14th International Conference on Science, Engineering and Technology, held at VIT University, Vellore, during 2-3 May 2017.
2. Presented a paper entitled “ Convective heat transfer in dustyfluid embedded with nano particles” on the International Conference on Mathematical applications in Engineering and Technology, held at Sacred Heart College, Tirupattur, during 27-28th January 2017.
3. Presented a paper entitled “Convective heat transfer in MHD flow over a paraboloid of revolution” on International Conference on Mathematical Sciences & Engineering Applications, held at Baba Institute of Technology & Sciences, Vishakapatnam, A.P. during 23-25 December 2016.
4. Presented a paper entitled “Dual solutions for heat and mass transfer in MHD Jeffrey fluid in the presence of homogeneous-heterogeneous reactions” at International Conference on Mathematical Sciences & Its Applications, held at Jaypee Institute of Information Technology, India. during 8-10, December 2016.
5. Presented a paper entitled “Effect of nonlinear thermal radiation on dusty nanofluid flow” on International conference on Computational, Mathematical and Biological

Modelling (ICCMBM) held at Sri Padmavathi Mahila University, Tirupati during 25-26 March 2016.

6. Presented a paper entitled "Effect of nonlinear thermal radiation on nanofluid flow due to cone" on International conference on Mathematical Sciences (ICMS) held at Sri Venkateswara University, Tirupati during 13-15 July 2015.
7. Presented a paper entitled "MHD flow of a nano fluid over a permeable stretching/shrinking sheet in a porous medium with suction/injection" on International Conference on Research in Education and Science (ICRES) held on April 23-26, 2015.
8. Presented a paper entitled "Radiation effect on unsteady natural convective flow of a nanofluid past an infinite vertical plate" on II International Conference on Applications of Fluid Dynamics (AFD-2014) held at Sri Venkateswara University, Tirupati during 21-23 July 2014.
9. Presented a paper entitled "Radiation and aligned magnetic field effects on unsteady MHD convective flow past an impulsively moving vertical plate" on International Conference on Materials and Characterization Techniques held at VIT University, Vellore during 10-12 March 2014.

PAPER PRESENTATIONS IN NATIONAL CONFERENCES

1. Presented a paper entitled "Heat and Mass transfer investigation of radiative MHD flow over an elongated surface" at National conference on Recent Advances in Mathematics and its applications, S.V.University, Tirupati, during 29th, August 2017.
2. Presented a paper entitled "3D slip flow of magnetohydrodynamic nano fluids over a variable thickness stretched surface" at two day National seminar for research scholars, held at Gulbarga University, Gulbarga, during 9-10, February 2017.
3. Presented a paper entitled "Magnetohydrodynamic flow, heat and mass transfer of Eyring Powell fluid with external Magnetic fields" National conference on Recent Trends in Applied Sciences and Humanities held at S.V. Engineering College, Chittoor, A.P., during 18-19, November 2016.
4. Presented a paper entitled "Heat transfer in unsteady squeezing flow between parallel plates" at National conference on Emerging Trends in Engineering Sciences and Management held at Shridevi institute of Engineering and Technology, Tumakuru, Karnataka during 23rd and 24th March 2016.

5. Presented a paper entitled "Unsteady dissipative squeezing flow between parallel plates in the presence of nonlinear thermal radiation" at National conference on Pure and Applied Mathematics held at VIT University, Vellore, on 12th March 2016.
6. Presented a paper entitled "Dual solutions for unsteady flow of Powell-Eyring fluid past an inclined stretching sheet" at National conference on Mathematics and its Applications held at Sri Venkateswara University, Tirupati, during 22-23 December 2015.
7. Presented a paper entitled "Unsteady MHD flow of AG-water nanofluid embedded with conducting dust particles over a stretching surface" at National Seminar on Frontiers in Mathematics (FM-2015) held at Yogi Vemana University, Kadapa during 18-19 March 2015.
8. Presented a paper entitled "Stagnation point flow and heat transfer behavior of MHD nanofluid over a stretching/shrinking cylinders" at National Conference on Recent Trends and Advances in Mathematics and its Applications (NCRTAMA-2015) held at Sri Padmavati Mahila Visvavidyalayam, Tirupati during 12-13 March 2015.
9. Presented a paper entitled "Double diffusive mixed convection in a couple stress fluids" at National Conference on Women in Mathematics with special reference to Leelavathi (NCWMSL-2015) held at SPW Degree and PG College, Tirupati during 7-8 March 2015.
10. Presented a paper entitled "Effects of Radiation and Magnetic Field on Unsteady Natural Convection Flow of a Nanofluid Past an Infinite Vertical Plate" at National Seminar on Emerging Trends in Mathematics and its Applications (NSETMA-2014) held at Acharya Nagarjuna University, Ongole during 6 - 7 March 2014.
11. Presented a paper entitled "Effects of chemical reaction and radiation on MHD free convection flow of Kuvshinshiki fluid through a vertical porous plate with heat source" at National Conference on Recent Developments in Mathematics and its Applications held at Sri Venkateswara University, Tirupati on 29th January 2014.
12. Presented a Paper entitled "Effects of Radiation on an Unsteady Natural Convective Flow of a EG-Nimonic 80a Nanofluid Past an Infinite Vertical Plate" at Recent Developments in Algebra and its Applications to Science and Technology (NSRDAAST-2013) held at Sri Krishnadevaraya University, Anantapur during 29-30 November 2013.

13. Presented a Paper entitled “MHD effects on convective flow of dusty viscous fluid through porous medium with heat source” at National seminar on Advances in Fluid Dynamics (NSAFD-2013) held at S.V.University, Tirupati on 30th May-2013.
14. Presented a Paper entitled “Radiation and Chemical reaction effects on Transient MHD free convective flow” at National Conference on Applications of Mathematics in Engineering, Physical and Life Sciences held at S.V.University, Tirupati during 7-9 December 2012.
15. Presented a paper entitled “Chemical Reaction effect on double diffusive convective flow of a viscous fluid in a vertical cylindrical annulus” at National Seminar on Recent Trends in Fluid Mechanics (NSRTFM-2012) held at S.V.University, Tirupati during 14-15 March 2012.
16. Presented a paper entitled “Effect of Chemical Reaction on Transient MHD Free Convective Flow over a Vertical Plate” at National Seminar on Recent advances in Mathematics and Applications held at Sri Padmavati Mahila Viswa Vidyalayam, Tirupati on 2-3 March 2012.
17. Presented a paper entitled “ Radiative effects due to natural convection between heated inclined plates with magnetic field effect through Porous Media” at National seminar on Recent developments in Mathematics held at S.V.University, Tirupati during 22-23 December 2011.
18. Presented a paper entitled “Effect Of Radiation And Chemical Reaction On Transient MHD Free Convective Flow Over A Vertical Plate Through Porous Media” at National seminar on Recent trends in Mathematical Sciences held at S.K.University Anantapur during 17-18 December 2011.
19. Presented a paper entitled “ Radiation and Magnetic Field Effects on Unsteady Free Convective Flow Of Dissipative Fluid Past A Vertical Plate Through Porous Medium With Heat Source” at National Conference on Mathematical Modeling & Simulation (APSMS-2011) held at SBIT , Khammam during 9 - 11 December 2011.
20. Presented a paper entitled “Unsteady MHD free convection flow and Mass transfer near vertical plate in the presence of thermal radiation” at National Conference on Advances in Mathematical Sciences held at Sri Venkateswara University, Tirupati during 28-29 March 2011.
21. Presented a paper entitled “Unsteady Hydromagnetic free convection flow of a radiating fluid past a porous vertical plate” at the National Conference on Frontiers

in Fluid Mechanics held at Gulbarga University, Gulbarga during 22-23 February 2011.

WORKSHOPS/SEMINARS/FDPS PARTICIPATED

1. Participated in the “104th Indian Science Congress Science and Technology for National Development” held at Sri Venkateswara University, Tirupati, During 3-7th January 2017.
2. Participated in the 30th National Science Day Celebrations, held at VIT University, Vellore, India, on 29th February 2016.
3. Participated in the State Level Workshop on “Discrete Mathematics and its Applications”, held at Sacred Heart College, Tirupattur, Vellore, India, during 29-30th January 2016.
4. Participated in the National Level Symposium on “Life and Works of Srinivasa Ramanujan” organized by Annamacharya Institute of Technology & Sciences, Tirupati on 1st May 2015.
5. Participated in the Faculty Development Program on “Research Trends in Nonlinear Science and Engineering” organized by VIT University, Vellore on 25th August 2014.
6. Participated in the Faculty Development Program on “Collaborative research between Bio-sciences and Mechanical” organized by VIT University, Vellore on 21st August 2014.
7. Participated in the one day workshop on “Hands on training in Latex” organized by VIT University, Vellore on 9th August 2014.
8. Participated in the Faculty Development Program on “Project Based Learning” organized by VIT University, Vellore on 6th August 2014.
9. Participated in the Faculty Development Program on “The making of video lecture” organized by VIT University, Vellore on 30-31 July 2014.
10. Participated in the Faculty Development Program on “Podcasting via FM radio” organized by VIT University, Vellore on 7th July 2014.
11. Participated in the Faculty Development Program on “MATLAB” organized by VIT University, Vellore on 14-20th May & 1st July 2014.
12. Participated in the Faculty Development Program on “Blooms Taxonomy” organized by VIT University, Vellore on 30th June 2014.

13. Participated in the Faculty Development Program on “Optimizing internet for creating instructional resources” organized by VIT University, Vellore on 27th June 2014.
14. Participated in the Faculty Development Program on “Writing error free technical content” organized by VIT University, Vellore on 11th June 2014.
15. Participated in the workshop on “Use of punctuation for academic writing” organized by VIT University, Vellore on 6th June 2014.
16. Participated in the Faculty Development Program on “Effective paper writing for Journal publications” organized by VIT University, Vellore on 3rd April 2014.
17. Participated in the Faculty Development Program on “Making an effective project proposal” organized by VIT University, Vellore on 27th March 2014.
18. Participated in the Faculty Development Program on “Integrated Learning” organized by VIT University, Vellore on 26th March 2014.
19. Participated in the Faculty Development Program on “Classroom Management” organized by VIT University, Vellore on 20th March 2014.
20. Participated in the Faculty Development Program on “Role of Multiple Intelligences” organized by VIT University, Vellore on 27th February 2014.
21. Participated in the Faculty Development Program on “Stress Management” organized by VIT University, Vellore on 23rd December 2013.
22. Participated in the Faculty Development Program on “The 101 Percent Principle for Greater Performance” organized by VIT University, Vellore on 11th December 2013.
23. Participated in a workshop on “MATLAB” organized by VIT University, Vellore on 27-29 August 2013.
24. Participated in the Faculty Development Program on “Making an Effective Paper writing and Project Proposal” organized by VIT University, Vellore on 1st August 2013.
25. Participated in the Faculty Development Program on “Be a People Person” organized by VIT University, Vellore on 24th July 2013.
26. Participated in the National workshop on “Advanced Material Characterization Techniques” organized by Sri Venkateswara University, Tirupati on 23rd March 2013.

27. Participated in Science workshop on “Mathematical Modelling in Science and Engineering” held at Sri Venkateswara University, Tirupati during 24-25 January 2012.

28. Participated in the Faculty Development Program on “Aptitude” Conducted by IEG-JKC and Globarena Technologies held in Chittoor during 19-24 November 2007.

SOFTWARE EXPOSURE

- Computing platforms: Linux, Windows
- Mathematical Softwares: MATLAB, MATHEMATICA
- Text formatting and office: LaTeX, Microsoft Word and Power Point
