

Dr. N.Kishan, M.Sc;Ph.D.

Senior Professor of Mathematics

Osmania University, Hyd-7, TS

✉ kishan-n@osmania.ac.in

🌐 <http://osmania.ac.in/>

🌐 <http://www.linkedin.com/in/kishan-naikoti-235a6432/>

<https://sciprofiles.com/profile/kishannaikoti/>

🆔 <https://orcid.org/0000-0002-8548-6534>

<https://publons.com/researcher/2165575/kishan-naikoti/>



Employment History

- 2023 – till date **Senior Professor**, Department of Mathematics, University College of Science, Osmania University, Hyderabad, Telangana State, India.
- July, 2021 – July, 2023 **Head & Professor of Mathematics**, Osmania University, Hyderabad, Telangana State, India.
- 2013 – 2023 **Professor**, Department of Mathematics, University College of Science, Osmania University, Hyderabad, Telangana State, India.
- 2007 – 2013 **Associate Professor**, Department of Mathematics, University College of Science, Osmania University, Hyderabad, A.P, India.
- 2006 – 2007 **Assistant Professor**, P.G.College of Science, Osmania University, Saifabad, Hyderabad, A.P, India.
- 1991 – 2006 **Assistant Professor (Adhoc)**, P.G.College of Science, Saifabaad, Osmania University, Hyderabad, A.P, India.

Awards and Achievements

- 2020 **Merit Award:** Best Teacher Award for the year 2020 awarded by Govt. of Telangana, T.S, India

Education

- 1991 – 1996 **Ph.D., Osmania University**, Applied Mathematics.
Thesis title: *COMPUTATIONAL TECHNIQUES IN MHD HEAT TRANSFER & TURBULENT FLOWS*
- 1988 – 1990 **M.Sc. Applied Mathematics, Osmania University**
: *University College of Science, Osmania University, Hyderabad-7, A.P*
- 1984 – 1987 **B.Sc. (Maths, Physics, Chemistry), Osmania University**
P.G. College of Science, Safabad, OU, Hyderabad-4, A.P
- 1981 – 1983 **Intermediate (Maths, Physics, Chemistry),**
Govt. Junior College, Medak (Town & Dist.), A.P
- 1977 – 1981 **VII – X Class,**
Govt. Junior College, Medak (Town & Dist.), A.P
- 1975 – 1977 **VI – VII Class,**
Govt. New High School, Medak (Town & Dist.), A.P
- 1971 – 1975 **I – V Class,**
Upper Primary School, Kodpak (Vill.), Papannapet (Mandal); Medak (Dist.), A.P

Details of Institutional Services

2021 – 2023	Head, Department of Mathematics, Osmania University from 1st July, 2021 to July, 2023.
2020 – till date	Dean, Faculty of Science, Mahathma Gandhi University, Nalgonda, Telangana State.
2019 – 2022	I/c Member Secretary for TSSET, Osmania University, Telangana State from 31st December, 2019 to March, 2022.
2017 – 2021	Director, Directorate of Admissions, Osmania University, from 21st September, 2017 to 5th July, 2021.
2016 – 2019	Co-Ordinator, UGC-DSA Phase-I, Department of Mathematics, Osmania University, Hyderabad.
2020 – 2021	Convenor, CPGET-2020 (Common Post Graduate Entrance Tests) for Telangana State.
2019 – 2020	Convenor, CPGET-2019 (Common Post Graduate Entrance Tests) for Telangana State.
2009 – 2017	Joint Director, Directorate of Admissions, Osmania University, from 31st October, 2009 to September, 2017(8 years)
2005 – 2007	Served as Warden, Hostel, at P.G. College of Science, Osmania University, Saifabad, Hyderabad.
2007 – 2009	Student Advisor, Department of Mathematics, University College of Science, Osmania University.
2017 – 2019	Chairperson, Board of Studies in Mathematics, Osmania University from August, 2017 to September, 2019.
2017 – 2021	Chairperson, Board of Studies in Mathematics, Mahathma Gandhi University.
2019 – 2021	Chairperson, Board of Studies in Mathematics, Palamuru University from August, 2019.
2001 – 2003	Member Board of Studies for P.G., Autonomous Course at P.G. College of Science, Osmania University, Saifabad, Hyderabad-4, A.P, India.
2009 – 2012	Member, Departmental Committee, Mathematics, July, 2009 to Jan-2012.
2008 – 2010	Member, Board of Studies in Mathematics for UG courses, Osmania University, from 19th Aug, 2021 to till the date.
2021 – 2022	Chairperson, Board of Studies in Mathematics for UG courses, Satyavana University, Karimnagar, TS, from Aug, 2021 to till the date.

MEMBER IN THE COMMITTEES:

- Member, Committee to conduct enquiry in maintaining the Roster Points (Rule of Reservation) meant for SC/ST categories and to prepare new Roster Register (Master Copy) Osmania University, during 2020-2022.
- Member, Committee to identify the irregularities and to look over the grievances, in Ph.D admissions as per AP High Court directions, during 2013-14.
- Member, Project Implementation Group (PIG) under DST-PURSE-I Programme, Osmania University, during 2018-2022.
- Member, Project Implementation Group (PIG) under RUSA-2.0, Osmania University, during 2019-2022.
- Co-ordinator, Research sub Centre under RUSA-2.0, Osmania University, during 2019-2022.

(continued)

- Member, in framing and designing B.Sc, Data Science Course, Telangana State Council of Higher Education (TSCHE), Telangana, 2018-19.
- Member, TS-SET (State Eligibility Test, Telangana State) implementation committee, TS, 2018-19.
- Member, Advisory committee for CPGET-2021 (Common Post Graduate Entrance Test), Telangana State.
- Member, Advisory committee for CPGET-2022 (Common Post Graduate Entrance Test), Telangana State.

Academic & Research

Research Area:

- Boundary Layer Theory; CFD; MHD; Non-Newtonian Fluids; Heat and Mass Transfer; Nanofluids

Projects:

- Co-Ordinator:** Co-Ordinator UGC-DSA Phase-I, Department of Mathematics, Osmania University, Hyderabad, 2016-2019.
- Major Research Project:** DST-PURSE-Programme, 2016-18 Research Project on **Steady flow of Incompressible non-Newtonian power-law fluids: A Numerical study**
- Major Research Project:** DST-PURSE-II Programme, 2019-2021 Research Project on **Boundary Layer flow of incompressible Non-newtonian power-law fluids: A Numerical study**

Ph.D & M.Phil

- Number of Ph.D Degrees Awarded: 22
- M.Phil Degrees Awarded: 6
- Presently Supervising: 8

Research Publications

- Total No. of Papers Published: 181**
- International Journals(Scopus, Sci, E.Sci): 140
- National/International (UGC Listed Journal): 41
- Google Scholar citation: 2400 , h-index-24 , iio-index- 69**

MEMBERSHIP IN TO PROFESSIONAL BODIES/ORGANIZATIONS:

- | | |
|------|--|
| 2022 | Member, APTSMS (Andhra Pradesh and Telangana Society for Mathematical Sciences): 2021-2023 |
| 1998 | Life Member, Indian Science Congress. |
| 2016 | Life Member, ISTAM. |
| 2005 | Member, Indian Academy of Mathematics. |
| 2006 | Life Member, ALUMNI, Association Osmania University. |

RESOURCE PERSON / ACADEMIC ACTIVITIES:

- 2023
- Invited talk on **Computational Methods With Applications to Fluid Dynamics**, at International Conference on Computational Modeling in Science and Engineering (ICCMSE - 2023) from 28-30 October, 2023, held at NIT, Warangal, TS.
 - Invited talk on "**Finite Element Analysis of MHD Bioconvection in a Porous Square Cavity**" in International Conference on Recent Advances in Sciences and Engineering (ICRASE-2023) held from 22-24th June, 2023, at WOXSSEN University, Sangareddy, Telangana.
- 2022
- Presidential talk on **Boundary Layer Theory and Its Applications** at XXXI ANNUAL CONGRESS OF APTSMS Int. Conference on Relevancy of Ancient Mathematics to the current Digital Trends (ICRAMCDT-2022), NATIONAL SANSKRIT UNIVERSITY::TIRUPATHI, 9 - 11 December, 2022, Tirupathi, A.P
 - Invited talk on "**Computational Methods for fluid flow and heat transfer problems**" in International Conference on Mathematical Sciences and Emerging Applications in Technology (ICMSEAT-2022) held from 9-11th September, 2022, at GITAM University, Rudraram, Hyderabad, T.S
 - Invited talk on **LATEX** at Faculty Development Programme for Polytechnic Lecturers held at UGC-HRDC- Osmania University, T.S during 2-21 July, 2022.
 - Invited talk on **Finite Element Analysis of Flow and Heat Transfer Problems**, from 28-29 January, 2022, held at Yogi Vemana University, Kadapa, A.P
- 2020
- Invited talk at **Andhra Pradesh and Telangana States Mathematical Society (APTSMS)** conference held at Mahathma Gandhi University, Nalgonda, December, 2020.
 - Invited talk at **National Conference on Recent Advances in Mathematics and its Industrial Applications**, 6-7 February, 2020, ANU, Ongole, A.P
 - Invited talk at National Conference on "**Industrial Applications of Mathematics and its developments**" during 13-14 March 2020, Kuvempu University, Shnakraghatta, Shivamogga, Karnataka.
- 2019
- Invited Talk at **NATIONAL CONFERENCE ON ADVANCES IN COMPUTATIONAL FLUID DYNAMICS (NACFD – 2019)** Sponsored by DST-SERB during 12-13, April 2019. Andhra Kesari Tanguturi Prakasam University (Acharya Nagarjuna University Ongole Campus), Ongole, A.P
- 2009
- Invited talk on **Radiation Effect on MHD Steady free Convection flow of a gas at a stretching surface with a uniform free steam with viscous dissipation at International conference on Frontiers in Fluid Mechanics (ICFFM-09)** during 31st Aug to 2nd Sept-2009 held at UGC-CAS in Fluid Mechanics Bangalore University, Bangalore.
- 2011-2019
- Resource person for the **BARC training school (during 2011-2019)**, for junior scientists at AMD (Atomic Mineral Directorate), Begumpet, Hyderabad.
- 2011
- Invited talk on Computational Fluid Dynamics for Training programme for M.Phil & Ph.d students at Dr.Br.Ambedkar Open University, during 12-18th Feb-2011, Hyderabad.
- 2010
- Resource person for 2nd Refresher Course in mathematics & Statistics on 27th Dec-2010, at UGC-Academic Staff College, Osmania University, Hyderabad.
 - Resource person for Training programme for M.Phil & Ph.d students at Dr.Br.Ambedkar Open University, during 11-17th Dec-2010, Hyderabad.
- 2008
- Resource person for Short Course "Fourier Series & Laplace Transforms" for Polytechnic Teachers, at National Institute of Technical Teacher,s Training and Research, Sanketika Vidya Bhavan, Hyderabad, A.P, India.
 - Invited talk on Finite Difference and Finite Element for Training programme for M.Phil and Ph.d students at Dr.Br.Ambedkar Open University, during 19-25th Nov-2008, Hyderabad.

RESOURCE PERSON / ACADEMIC ACTIVITIES: (continued)

- 2005  Act as a Judge for Selection of 1st Prize Winners in the theme Mathematical Modelling in ANDHRA PRADESH STATE LEVEL SCIENCE EXHIBITION 2004-05, At Delhi Public School Vanasthalipuram, Hyderabad.

List of Ph.D Awardees:

- Oct, 2009  **K. Govardhan**, Study of Heat Mass Transfer with Viscous Dissipation and Micropolar Fluids (Oct, 2009).
- Dec, 2010  **P.Amrutha**, Numerical Study of MHD Heat Transfer over Wedge with Viscous Dissipation and Variable Viscosity (Dec, 2010).
- Jan, 2011  **B.Sashidar Reddy Reddy**, Study of Non-Newtonian Power-law Fluid flows with MHD and Viscous Dissipation (Jan, 2011).
- Mar, 2012  **Bala Siddulu Malga**, Finite Element Analysis of unsteady MHD Convective Heat and Mass Transfer of Micropolar Fluid past a plate (Mar, 2012).
- May, 2013  **G. Deepa**, Numerical Study of MHD Effects on Convective Heat and Mass Transfer with Viscous Dissipation (May, 2013).
- May, 2015  **Hunengnaw Dessie**, Numerical Study of MHD Boundary Layer Flow and Heat Transfer over A Stretching Sheet (May, 2015).
- Sept, 2015  **P.Kavitha**, Numerical Study of Magneto hydrodynamic flow heat transfer of a Non-Newtonian power law fluid with thermal radiation and viscous dissipation (Sept, 2015).
- Dec, 2015  **S. Jagadha**, Numerical Study of MHD Heat and Mass Transfer In Darcy-Forchheimer mixed convection from a vertical flat plate in a porous medium under the effects of radiation, thermophoretic and chemical reaction (Dec, 2015).
- Feb, 2016  **B. Balaswamy**, Numerical Study Of MHD Boundary Layer Flow In A Porous Medium (Jan, 2016).
- Feb, 2017  **Balla Chandra Shekar**, Finite Element Analysis of MHD Boundary Layer Flow and Heat Transfer Characteristics of Nanofluids (Feb, 2017).
-  **Macha Madhu**, Finite Element Analysis of MHD Boundary Layer Flow of a Non-Newtonian Nanofluid (Feb, 2017).
- Jan, 2017  **Srinivas Maripala**, Numerical study of MHD Boundary layer flow and heat transfer of a Nanofluid over a stretching/shrinking sheet (Jan, 2017).
- Dec, 2017  **D. Hyma**, MHD Boundary layer flow, Heat and Mass transfer Analysis of Nanofluids (Dec, 2017).
- July, 2018  **C. Srinivas Reddy**, Numerical Study of Heat and Mass Transfer characteristics of Non-Newtonian Nanofluids (July, 2018).
- Nov, 2018  **Vijaya Basker Reddy**, Numerical Study of Melting Heat Transfer on MHD Flow of a Non-Newtonian Nanofluid past a Stretching sheet (Nov, 2018).
- June, 2019  **C. Haritha**, Convective Heat Transfer Analysis in a Porous Square Cavity filled with Nanofluids (June, 2019).
- Nov, 2019  **Gossaye Aliy Adem**, Optimal Homotopy Asymptotic Method for Electrical MHD non-Newtonian Fluid Flow over a Stretching Sheet (Oct, 2019).
- Oct, 2020  **Degavath Gopal**, Flow and Heat Transfer Analysis of MHD non-Newtonian nonfluids over a stretching surface: A Numerical Study (Mar, 2020).
- Apr, 2021  **V. Meenakshi**, Dufour and sores effect On unsteady MHD free Convection and mass Transfer flow past an Impulsively started Vertical porous plate Considering with heat Generation (Apr, 2021).

List of Ph.D Awardees: (continued)

- Sept, 2022  **Alluguvelli Ramesh**, Finite Element Analysis of Bioconvection in a Porous Cavity filled by Oxytactic Microorganisms (2022).
- Dec, 2022  **Neella Amar**, Heat Transfer Analysis on MHD Boundary Layer over a static/moving Wedge (Dec, 2022).
- Dec, 2023  **Nagaraju L**, Heat Transfer Analysis of unsteady MHD convective flows through porous medium (Jan, 2024).

List of M.Phil Degree Awarded Candidates:

- 2010  **V. Meenakshi**, MHD Heat and Mass Transfer through porous medium (2010).
- 2011  **Maripala Srinivas**, Heat Transfer analysis : A Numerical Study (2011).
-  **D. Latha Madhuri**, Numerical solutions of Heat Transfer Problems (2011).
- 2015  **L. Nagaraju**, MHD Effects on Convective Heat Transfer: A Finite Element Analysis Dec, (2015).

ATTENDED TRAINING PROGRAMMES/COURSES:

-  SERC-School on Mathematical Modelling of Atmospheric Pollution, held at Bangalore University, from 15th May to 16th June, 2001.
-  Workshop on Hydrodynamics, held at Indian Institute of Science (IISc), Bangalore, from 6th -9th, Dec, 2004.
-  Course on Programming and Mathematical Packages, held at University Computer Center, Osmania University, Hyderabad, from 28th April to 15th June, 1999.
-  National Level Workshop on Object Oriented Computing in Applicable Mathematics, held at Department of Mathematics, Osmania University, Hyderabad, from 22nd to 29th, Mar, 1997.
-  Orientation Course, at Academic Staff College, Osmania University, from 8-06-1998 to 4-07-1998.
-  Refresher course, at Academic Staff College, Osmania University, from 20-07-2006 to 10-08-2006.
-  International Conference for Mathematicians (ICM) from 19th to 27th Aug-2010, held at Hyderabad, AP, India.
-  Professional Development Programme(PDP) for senior teachers, from 15-11-2010 to 20-11-2010, at Academic Staff College, University of Hyderabad, Hyderabad.

SEMINARS/CONFERENCES ATTENDED AND CONDUCTED:

-  Convener, National Seminar on Synergizing Higher Education in the Context of NEP-2020 on 22-23, December, 2021, held at Osmania University, HYDERABAD, T.S, India.
-  Convener, XXX-APTSMS (Andhra Pradesh & Telangana Society for Mathematical Sciences) and International Conference on Mathematics and its relevance to science and engineering, 12-14, 2022, held at Osmania University, HYDERABAD, T.S, India.
-  Convener, National Mathematics Day, on 19-20, December, 2021, held at Osmania University, HYDERABAD, T.S, India.
-  Attended a two-day seminar on the "National Educational Policy 2020– A road map to revamp the Indian higher education system" from 22-23 March 2022, held at Sri Venkateswara University, TIRUPATHI, A.P.
-  Convener, International conference on Computational Fluid Flow and Heat Transfer, from 28-29, March, 2018, held at Osmania University, HYDERABAD, T.S, India.

SEMINARS/CONFERENCES ATTENDED AND CONDUCTED: (continued)

- Convener, National conference on MATHEMATICAL SCIENCES AND APPLICATIONS(NCMSA); 30-31 July, 2018, held at Osmania University, HYDERABAD, T.S, India.
- Organizing Secretary for National workshop on “Advanced Techniques in Computational Fluid Dynamics” from 24-25th Feb – 2012, *HYDERABAD, T.S, India*.
- Organizing Secretary for one day Seminar on “Mathematics Modelling in Fluid Mechanics” 30 Nov-2011, HYDERABAD, T.S, India.
- International Conference on “Recent Advances in Fluid Mechanics” from 23-24 Dec-2010 (Organizing Committee), Osmania University, HYDERABAD, T.S, India.
- National conference on “Recent trends in Mathematical Science” Dept. of Mathematics, from 30-31 Mar-2010, Osmania University, HYDERABAD, T.S, India.
- National work shop on “Advanced Techniques in Computational Fluid Dynamics” from 24-25 Feb-2012, Osmania University, HYDERABAD, T.S, India.
- International conferences on “Recent Advance in Fluid Mechanics” from 23-24 Dec-2010, Dept. of Mathematics (Organising Committee), Osmania University, HYDERABAD, T.S, India. .
- Workshop attended on “Hydrodynamics” held at Indian Institute of Science (IISc), Bangalore, from 6-9 December, 2004.
- National Seminar on “Fluid Mechanics – Its Applications to science & Technology”, February 9-10, 2005, held at Osmania University, HYDERABAD, T.S, India.
- National Seminar on “New Trends in Functional Analysis & Operator Theory”, March 11-12, 2005 held at Osmania University, HYDERABAD, T.S, India.
- National Conference on “New Trends in Number Theory”, held from March 18-19, 2006 held at Osmania University, HYDERABAD, T.S, India.
- National Seminar on “Recent Advances in Continuum Mechanics” from March 11-12, 2004, held at Osmania University, HYDERABAD, T.S, India.
- National Seminar on “Recent Advance in Heat & Mass Transfer” February 28, 2004 held at Osmania University, HYDERABAD, T.S, India..
- Presented Paper at XII-Congress Andhra Pradesh Society for Mathematical Science, from December 12-14, 2003 held at Osmania University, HYDERABAD, T.S, India.
- National Seminar on “Recent Advance in Fluid Mechanics” March 26, 2003 held at Osmania University, HYDERABAD, T.S, India.
- National Seminar on “Algebra – Its Applications” March 29-30, 2003 held at Osmania University, HYDERABAD, T.S., India.
- Presented Paper at X-Congress Andhra Pradesh Society for Mathematical Science, from 18-20 January, 2002, held at Osmania University, HYDERABAD, T.S, India.
- National Seminar on “Current Trends in Fluid Mechanics” March 30-31, 2001 held at Osmania University, HYDERABAD, T.S, India.
- National level Seminar cum Workshop on “Object Oriented Computing in Applicable Mathematics”, during March 22-29, 1997 held at Osmania University, HYDERABAD, T.S, India.
- X-ISME Conference on Mechanical Engineering, held at Delhi, Dec 9-11, 1996.

Research Publications

Journal Articles

- 1 Amar, N., Kishan, N., & Shankar Goud, B. (2023). Viscous dissipation and radiation effects on mhd heat transfer flow of casson fluid through a moving wedge with convective boundary condition in the existence of internal heat generation/absorption. *Journal of Nanofluids*, 12(3), 643–651.
- 2 Dyapa, H., & Kishan, N. (2023). Numerical simulation of dufour and sores impacts on mhd williamson nanofluid flow through an inclined surface. *Heat Transfer*, 52(1), 448–466.
- 3 Hymavathi, D., Ramachandru, M., Reddy, M., & Kishan, N. (2023). Heat generation and thermal radiation effects on magneto hydrodynamics non newtonian casson nanofluid with gyro tactic microorganisms over a plate, stagnation and wedge through porous media. *Journal of Nanofluids*, 12(6), 1463–1474.
- 4 Kune, R., Jagadha, S., Naik, S. H. S., Kishan, N., & Gopal, D. (2023). Parametric study of mhd, heat absorption/generation and diffusion of mass on one dimensional unsteady, chemically reacting flow employing finite element method. *Materials Today: Proceedings*, 80, 1086–1095.
- 5 Nagaraju, L., & Naikoti, K. (2023a). Laminar unsteady magnetohydrodynamic flow of newtonian nongray optically thin fluid through porous medium between two concentric vertical cylinders. *Heat Transfer*, 52(5), 3774–3798.
- 6 Nagaraju, L., & Naikoti, K. (2023b). The effects of thermal radiation on unsteady mhd free convective flow through the porous medium between two vertical plates with hall effects. *Heat Transfer*, 52(4), 3074–3093.
- 7 Nagaraju, L., Naikoti, K., & Krishna, M. V. (2023). Chemical reaction and sores effects on mhd convective flow of second grade fluid through an absorbent medium with ramped wall temperature as well as ramped surface concentration. *Journal of the Indian Chemical Society*, 100(1), 100818.
- 8 Ramachandru, M., Hymavathi, D., Chenna Krishna Reddy, M., Fareeduddin, M., Kishan, N., Umeshaiyah, M., & Gill, H. S. (2023). Role of bioconvection and activation energy on mhd flow of maxwell's nanofluid with gyrotactic microorganisms in porous media: The cattaneo–christov model. *International Journal of Modern Physics B*, 37(25), 2350300.
- 9 Ramesh, A., Kishan, N., & Balla, C. S. (2023). Bioconvection in inclined square cavity comprising oxytactic microorganisms in the presence of sores and dufour. *International Journal of Modelling and Simulation*, 43(6), 967–979.
- 10 Alluguvelli, R., Balla, C. S., & Naikoti, K. (2022). Bioconvection in porous square cavity containing oxytactic microorganisms in the presence of viscous dissipation. *Discontinuity, Nonlinearity, and Complexity*, 11(02), 301–313.
- 11 Alluguvelli, R., Balla, C. S., Naikoti, K., Makinde, O. D. et al. (2022). Nanofluid bioconvection in porous enclosure with viscous dissipation. *Indian Journal of Pure & Applied Physics (IJPAP)*, 60(1), 78–89.
- 12 Amar, N., Kishan, N., & Shankar Goud, B. (2022). Mhd heat transfer flow over a moving wedge with convective boundary conditions with the influence of viscous dissipation and internal heat generation/absorption. *Heat Transfer*, (<https://doi.org/10.1002/htj.22534>).
- 13 Dyapa, H., Mattipelli, R., & Naikoti, K. (2022). Gyrotactic microorganisms bioconvection in combined convective magnetohydrodynamic casson nanofluid flow over a vertically surfaced saturated porous media with variable viscosity. *Heat Transfer*.
- 14 Gopal, D., Jagadha, S., Sreehari, P., Kishan, N., & Mahendar, D. (2022). A numerical study of viscous dissipation with first order chemical reaction and ohmic effects on mhd nanofluid flow through an exponential stretching sheet. *Materials Today: Proceedings*, 59, 1028–1033.

- 15 Gopal, D., Munjam, S. R., & Kishan, N. (2022). Analytical impact of carreau nanofluid model under the influence of chemical reaction, sores and dufour over inclined stretching cylinder. *International Communications in Heat and Mass Transfer*, 135, 106148.
- 16 Gopal, D., Firdous, H., Saleem, S., & Kishan, N. (2022). Impact of convective heat transfer and buoyancy on micropolar fluid flow through a porous shrinking sheet: An fem approach. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 236(8), 3974–3985.
- 17 Jagadha, S., Gopal, D., Kumar, P. V., Kishan, N., & Durgaprasad, P. (2022). Three dimensional mhd nanofluid stagnation point flow with higher order chemical reaction. *Journal of Thermal Engineering*, 8(2), 286–298.
- 18 Jagadha, S., Hari Shing Naik, S., Durgaprasad, P., Naresh Kumar, A., & Naikoti, K. (2022). Radiative newtonian carreau nanofluid through stretching cylinder considering the first-order chemical reaction. *International Journal of Ambient Energy*, 43(1), 4959–4967.
- 19 Madhu, M., Shashikumar, N., Gireesha, B., & Kishan, N. (2022a). Entropy generation analysis of mhd micropolar nanofluid flow through a micro channel. *Discontinuity, Nonlinearity, and Complexity*, 11(04), 569–582.
- 20 Madhu, M., Shashikumar, N., Gireesha, B., & Kishan, N. (2022b). Thermal analysis of mhd powell–eyring fluid flow through a vertical microchannel. *International Journal of Ambient Energy*, 43(1), 4454–4462.
- 21 Meenakshi, V., Reddy, C. S., Madhu, M., & Naikoti, K. (2022). The impact of thermal transmission on darcy-forchheimer flow of prandtl nanofluid over a convective stretching surface. *JP Journal of Heat and Mass Transfer*, 29, 47–66.
- 22 Ramchandraiah, C., Kishan, N., Reddy, G. S. K., Paidipati, K. K., & Chesneau, C. (2022). Double-diffusive convection in bidisperse porous medium with coriolis effect. *Mathematical and Computational Applications*, 27(4), 56.
- 23 Reddy, S., Srihari, P., Ali, F., & Naikoti, K. (2022). Numerical analysis of carreau fluid flow over a vertical porous microchannel with entropy generation. *Partial Differential Equations in Applied Mathematics*, 5, 100304.
- 24 Saleem, S., Gopal, D., Shah, N. A., Feroz, N., Kishan, N., Chung, J. D., & Safdar, S. (2022). Modelling entropy in magnetized flow of eyring–powell nanofluid through nonlinear stretching surface with chemical reaction: A finite element method approach. *Nanomaterials*, 12(11), 1811.
- 25 Sreehari, P., Reddy, S., Naikoti, K. et al. (2022). Magneto-hydrodynamic darcy-forchheimer jeffrey nanofluid flow over a nonlinear radially stretching sheet with radiation and heat generation/absorption. *Discontinuity, Nonlinearity, and Complexity*, 11(02), 285–300.
- 26 Srinivas Reddy, C., Ali, F., Mahanthesh, B., & Naikoti, K. (2022). Irreversibility analysis of radiative heat transport of williamson material over a lubricated surface with viscous heating and internal heat source. *Heat Transfer*, 51(1), 395–412.
- 27 Vadithya, M., Naikoti, K., & Macha, M. (2022). Impact of thermal radiation on mhd squeezing flow of a casson fluid between collateral plates. *Discontinuity, Nonlinearity, and Complexity*, 11(02), 363–372.
- 28 Amar, N., & Kishan, N. (2021a). Heat and mass transfer analysis of casson fluid flow over a moving wedge filled with nanofluid. *Adv. Math. Sci. J*, 10(3), 1357–1370.
- 29 Amar, N., & Kishan, N. (2021b). The influence of radiation on mhd boundary layer flow past a nano fluid wedge embedded in porous media. *Partial Differential Equations in Applied Mathematics*, 4, 100082.
- 30 Balla, C. S., Ramesh, A., Kishan, N., & Rashad, A. M. (2021). Impact of sores and dufour on bioconvective flow of nanofluid in porous square cavity. *Heat Transfer*, 50(5), 5123–5147.

- 31 Gopal, D., Saleem, S., Jagadha, S., Ahmad, F., Almatroud, A. O., & Kishan, N. (2021). Numerical analysis of higher order chemical reaction on electrically mhd nanofluid under influence of viscous dissipation. *Alexandria Engineering Journal*, 60(1), 1861–1871.
- 32 Hymavathi, D., & Naikoti, K. (2021). Study on radiative mhd nanofluid flow over a vertically stretching sheet in the presence of buoyancy forces with viscous dissipation. *Newest Updates in Physical Science Research Vol. 10*, 44–58.
- 33 Madhu, M., Shashikumar, N., Gireesha, B., & Kishan, N. (2021). Second law analysis of mhd third-grade fluid flow through the microchannel. *Pramana*, 95, 1–10.
- 34 Shashikumar, N., Madhu, M., Sindhu, S., Gireesha, B., & Kishan, N. (2021). Thermal analysis of mhd williamson fluid flow through a microchannel. *International Communications in Heat and Mass Transfer*, 127, 105582.
- 35 Shashikumar, N., Thriveni, K., Madhu, M., Mahanthesh, B., Gireesha, B., & Kishan, N. (2021). Entropy generation analysis of radiative williamson fluid flow in an inclined microchannel with multiple slip and convective heating boundary effects. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 09544089211049863.
- 36 Vadithya, M., Naikoti, K., & Macha, M. (2021). Mhd and thermal radiation effects on channel flow of nanofluid with nanoparticles in different shapes. *Journal of Applied Nonlinear Dynamics*, 10(02), 329–338.
- 37 Balla, C. S., Alluguvelli, R., Naikoti, K., & Makinde, O. D. (2020). Effect of chemical reaction on bioconvective flow in oxytactic microorganisms suspended porous cavity. *Journal of Applied and Computational Mechanics*, 6(3), 653–664.
- 38 Balla, C. S., Ramesh, A., Kishan, N., Rashad, A., & Abdelrahman, Z. (2020). Bioconvection in oxytactic microorganism-saturated porous square enclosure with thermal radiation impact. *Journal of Thermal Analysis and Calorimetry*, 140, 2387–2395.
- 39 Gopal, D., Naik, S. H. S., Kishan, N., & Raju, C. (2020). The impact of thermal stratification and heat generation/absorption on mhd carreau nano fluid flow over a permeable cylinder. *SN Applied Sciences*, 2(4), 639.
- 40 Jagadha, S., Gopal, D., & Kishan, N. (2020b). Soret and dufour effects of electrical mhd nanofluid with higher order chemical reaction. *Test Eng. Manag*, 82, 2250–2259.
- 41 Molli, S., & Naikoti, K. (2020). Mhd natural convective flow of cu-water nanofluid over a past infinite vertical plate with the presence of time dependent boundary condition. *Int. J. Thermofluid Sci. Technol*, 7(4), 070404.
- 42 Rao, B. M., Gopal, D., Kishan, N., Ahmed, S., & Prasad, P. D. (2020). Heat and mass transfer mechanism on three-dimensional flow of inclined magneto carreau nanofluid with chemical reaction. *Archives of Thermodynamics*, 41(2), 223–238.
- 43 Shashikumar, N., Macha, M., Gireesha, B., & Kishan, N. (2020). Finite element analysis of micropolar nanofluid flow through an inclined microchannel with thermal radiation. *Multidiscipline Modeling in Materials and Structures*, 16(6), 1521–1538.
- 44 Aliy, G., & Kishan, N. (2019a). Electrical mhd viscoelastic nanofluid flow and heat transfer over a stretching sheet with convective boundary condition. optimal homotopy asymptotic method analysis. *Journal of Nanofluids*, 8(2), 317–326.
- 45 Aliy, G., & Kishan, N. (2019b). Optimal homotopy asymptotic solution for thermal radiation and chemical reaction effects on electrical mhd jeffrey fluid flow over a stretching sheet through porous media with heat source. *Applications and Applied Mathematics: An International Journal (AAM)*, 14(4), 12.

- 46 Balla, C. S., & Naikoti, K. (2019). Numerical solution of mhd bioconvection in a porous square cavity due to oxytactic microorganisms. *Applications and Applied Mathematics: An International Journal (AAM)*, 14(4), 6.
- 47 Balla, C. S., Haritha, C., Naikoti, K., & Rashad, A. (2019). Bioconvection in nanofluid-saturated porous square cavity containing oxytactic microorganisms. *International Journal of Numerical Methods for Heat & Fluid Flow*, 29(4), 1448–1465.
- 48 Balla, C., Haritha, C., Kishan, N., & Rashad, A. (2019). Magnetohydrodynamic nanofluid flow and heat transfer in a porous cavity containing heated surface. *Journal of Nanofluids*, 8(3), 577–588.
- 49 Chandra Shekar, B., Haritha, C., & Kishan, N. (2019). Magnetohydrodynamic convection in a porous square cavity filled by a nanofluid with viscous dissipation effects. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 233(3), 474–488.
- 50 Gopal, D., & Kishan, N. (2019a). Brownian motion and thermophoresis effects on casson nanofluid over a chemically reacting stretching sheet with inclined magnetic field. *Applications and Applied Mathematics: An International Journal (AAM)*, 14(4), 9.
- 51 Gopal, D., & Kishan, N. (2019c). Velocity and curvature slip impacts on casson nanofluid flow over an inclined magnetic permeable stretching cylinder. *Journal of Nanofluids*, 8(4), 830–837.
- 52 HYMAVATHI, D., JAGADHA, S., & KISHAN, N. (2019). Hall current effects on mhd free convection nanofluid over an inclined hot plate with viscous dissipation. *Journal of Ultra Scientist of Physical Sciences-Section A (Mathematics)*, 31(4).
- 53 Kalyani, K., Jagadha, S., & Kishan, N. (2019). Non-darcy natural convection mhd flow for nanofluid over a stretching sheet with thermal radiation. *Journal of nanofluids*, 8(6), 1295–1304.
- 54 Kavitha, P., & Naikoti, K. (2019). Mhd boundary layer flow of non-newtonian power-law nanofluid with thermal radiation. *Journal of Nanofluids*, 8(1), 84–93.
- 55 Madhu, M., Shashikumar, N., Mahanthesh, B., Gireesha, B., & Kishan, N. (2019). Heat transfer and entropy generation analysis of non-newtonian flu flow through vertical microchannel with convective boundary condition. *Applied Mathematics and Mechanics*, 40, 1285–1300.
- 56 Madhu, M., Gireesha, B., & Kishan, N. (2019). Mhd boundary layer flow and heat transfer to sisko nanofluid past a nonlinearly stretching sheet with radiation. *Applications and Applied Mathematics: An International Journal (AAM)*, 14(4), 1.
- 57 Madhu, M., Shashikumar, N., Gireesha, B., & Kishan, N. (2019). Second law analysis of powell–eyring fluid flow through an inclined microchannel with thermal radiation. *Physica Scripta*, 94(12), 125205.
- 58 Maripala, S., & Naikoti, K. (2019). Joule heat parameter effects on unsteady mhd flow over a stretching sheet with viscous dissipation and heat source. *Applications and Applied Mathematics: An International Journal (AAM)*, 14(4), 4.
- 59 Reddy, N. V. B., Kishan, N., & Reddy, C. S. (2019). Melting heat transfer and mhd boundary layer flow of eyring-powell nanofluid over a nonlinear stretching sheet with slip. *International Journal of Applied Mechanics and Engineering*, 24(1), 161–178.
- 60 Adem, G. A., & Kishan, N. (2018a). Optimal homotopy asymptotic solution for stagnation-point flow and heat transfer towards a stretching/shrinking sheet with slip effects. *International Journal of Computational and Applied Mathematics*, 13(1), 19–32.
- 61 Adem, G. A., & Kishan, N. (2018b). Slip effects in a flow and heat transfer of a nanofluid over a nonlinearly stretching sheet using optimal homotopy asymptotic method. *Int. J. Eng. Manuf. Sci*, 8(1), 25–46.

- 62 Aliy, G., & Kishan, N. (2018). Effect of electric field on mhd flow and heat transfer characteristics of williamson nanofluid over a heated surface with variable thickness. oham solution. *Journal of Advances in Mathematics and Computer Science*, 30(1), 1–23.
- 63 Gopal, D., & Kishan, N. (2018). Heat transfer analysis of blasius and sakiadis flow of mhd radiated carreau fluid with cattaneo-christov heat flux. *Research Journal of Engineering and Technology*, 9(1), 14–20.
- 64 Haritha, C., Shekar, B. C., & Kishan, N. (2018). Mhd natural convection heat transfer in a porous square cavity filled by nanofluids with viscous dissipation. *J. Nanofluids*, 7, 928–938.
- 65 HYMAVATHI, D., & NAIKOTI, K. (2018). Radiative mhd nanofluid flow over a vertically stretching sheet in the presence of buoyancy forces with viscous dissipation. *Journal of Applied Physical Science International*, 1–13.
- 66 Reddy, C. S., Kishan, N., & Madhu, M. (2018). Finite element analysis of eyring–powell nano fluid over an exponential stretching sheet. *International Journal of Applied and Computational Mathematics*, 4, 1–13.
- 67 Reddy, N., & Naikoti, K. (2018). Effects of nonlinear thermal radiation on unsteady mhd flow of carreau nanofluid induced by a permeable stretching sheet with chemical reaction. *Journal of Nanofluids*, 7(2), 358–370.
- 68 Shekar, B. C., Haritha, C., & Kishan, N. (2018). Magnetohydrodynamic double-diffusive convection in fluid saturated inclined porous cavity with thermal radiation and chemical reaction. *Journal of Chemical Technology & Metallurgy*, 53(3).
- 69 Balla, C. S., Kishan, N., Gorla, R. S., & Gireesha, B. (2017). Mhd boundary layer flow and heat transfer in an inclined porous square cavity filled with nanofluids. *Ain Shams Engineering Journal*, 8(2), 237–254.
- 70 Chandra Sekhar, B., Kishan, N., & Haritha, C. (2017). Convection in nanofluid-filled porous cavity with heat absorption/generation and radiation. *Journal of Thermophysics and Heat Transfer*, 31(3), 549–562.
- 71 Gopal, D., Kishan, N., & Raju, C. (2017). Viscous and joule’s dissipation on casson fluid over a chemically reacting stretching sheet with inclined magnetic field and multiple slips. *Informatics in medicine Unlocked*, 9, 154–160.
- 72 Jagadha, S., Hymavathi, D., & Kishan, N. (2017). Soret and dufour effects on the boundary layer radiative mhd nanofluid flow over a vertical plate with chemical reaction. *Journal of Nanofluids*, 6(1), 97–104.
- 73 JAGADHA, S., & KISHAN, N. (2017). Mhd boundary layer stagnation point flow of non-newtonian micropolar nanofluid flow over a permeable vertical plate with chemical reaction effects. *Journal of Ultra Scientist of Physical Sciences-Section A (Mathematics)*, 29(12).
- 74 Kalyani, C., Kishan, N., & Reddy, M. (2017). Mhd stagnation point flow of a nanofluid towards a radially stretching convectively heated disk with viscous dissipation. *Journal of Nanofluids*, 6(1), 182–188.
- 75 KALYANI, K., KISHAN, N., & REDDY, M. C. K. (2017). International journal of mathematical archive-8 (10), 2017, 84–93 available online through www. ijma. info issn 2229–5046.
- 76 Kavitha, P., & Kishan, N. (2017). Suction/injection effects on mhd flow of a non-newtonian power-law fluid past a continuously moving porous flat plate with heat flux and viscous dissipation. *International Journal of Applied and Computational Mathematics*, 3(3), 2389–2408.
- 77 Macha, M., & Kishan, N. (2017). Boundary layer flow of viscoelastic nanofluid over a wedge in the presence of buoyancy force effects. *Computational Thermal Sciences: An International Journal*, 9(3).
- 78 Macha, M., Reddy, C. S., & Kishan, N. (2017). Magnetohydrodynamic flow and heat transfer to sisko nanofluid over a wedge. *International Journal of Fluid Mechanics Research*, 44(1).
- 79 Madhu, M., & Kishan, N. (2017). Mhd flow and heat transfer of casson nanofluid over a wedge. *Mechanics & Industry*, 18(2), 210.

- 80 Madhu, M., Kishan, N., & Chamkha, A. J. (2017). Unsteady flow of a maxwell nanofluid over a stretching surface in the presence of magnetohydrodynamic and thermal radiation effects. *Propulsion and Power research*, 6(1), 31–40.
- 81 Maripala, S., & Kishan, N. (2017a). Chemical reaction effects on mhd nanofluid flow of a convection slip in a saturated porous media over a radiating stretching sheet with heat source/sink. *Asian Research Journal of Mathematics*, 2(1), 1–15.
- 82 Maripala, S., & Kishan, N. (2017b). Micropolar nanofluid over a mhd heat transfer porous shrinking sheet. *Int J Math Appl*, 9(4-B), 211–217.
- 83 Maripala, S., & Kishan, N. (2017c). Nanofluid and micropolar fluid flow over a shrinking sheet with heat transfer. *International Journal of Mathematics Trends and Technology*, 48, 305–320.
- 84 Maripala, S., & Kishan, N. (2017d). Unsteady mhd boundary layer flow of nanofluid over a stretching sheet with variable viscosity and viscous dissipation. *Int J Adv Res Dev*, 5(2), 74–85.
- 85 Maripala, S., & Naikoti, K. (2017). Mhd radiative stretching surface of micropolar nanofluid flow with chemical reaction and heat source/sink. *Global Journal of Pure and Applied Mathematics*, 13(9), 6019–6028.
- 86 Nimma, V. B. R., & Naikoti, K. (2017). Non-linear thermal radiation effects on mhd heat and mass transfer in carreau nanofluid over a permeable stretching sheet with suction injection. *Eur. J. Adv. Eng. Technol.*, 4, 866–877.
- 87 Rashidi, M., Reddy, S., & Naikoti, K. (2017). Mhd flow and heat transfer characteristics of williamson nanofluid over a stretchable sheet with variable thickness and variable thermal conductivity. *AR Mathematical Inst*, 171, 195–211.
- 88 Reddy, S., Naikoti, K., & Rashidi, M. M. (2017). Mhd flow and heat transfer characteristics of williamson nanofluid over a stretching sheet with variable thickness and variable thermal conductivity. *Transactions of A. Razmadze Mathematical Institute*, 171(2), 195–211.
- 89 Shekar, B. C., Ramesh, A., & Kishan, N. (2017). Effects of variable viscosity and thermal conductivity on mhd boundary layer flow of nanofluid with thermal radiation. *Journal of Nanofluids*, 6(1), 59–70.
- 90 Borra, S. R., & Naikoti, K. (2016). Heat transfer of slip boundary layer flow of non-newtonian fluid over a flat plate with viscous dissipation. *International Journal of Advances in Engineering Sciences*, 6(4), 5–13.
- 91 Jagadha, S., Hymavathi, D., & Kishan, N. (2016). Mhd mixed convection non-darcy porous medium saturated with a nanofluid under the influence radiation. *Journal of nanofluids*, 5(2), 302–309.
- 92 Kishan, N., & Jagadha, S. (2016). Influence of thermophoresis on heat and mass transfer under non-darcy mhd mixed convection along a vertical flat plate embedded in a porous medium in the presence of radiation. *Thermophysics and Aeromechanics*, 23, 97–108.
- 93 Kishan, N., Kalyani, C., & Chenna Krishna Reddy, M. (2016). Mhd boundary layer flow of a nanofluid over an exponentially permeable stretching sheet with radiation and heat source/sink. *Challenges in Nano and Micro Scale Science and Technology*, 4(1), 44–51.
- 94 Macha, M., & Naikoti, K. (2016). Finite element analysis of heat and mass transfer by mhd mixed convection stagnation-point flow of a non-newtonian power-law nanouid towards a stretching surface with radiation. *J of Egy Math Soc*, 24, 458–470.
- 95 Macha, M., Naikoti, K., & Chamkha, A. J. (2016). Mhd flow of a non-newtonian nanofluid over a non-linearly stretching sheet in the presence of thermal radiation with heat source/sink. *Engineering Computations*, 33(5), 1610–1626.
- 96 Madhu, M., Balaswamy, B., & Kishan, N. (2016). Three-dimensional mhd boundary layer flow due to an axisymmetric shrinking sheet with radiation, viscous dissipation and heat source/sink. *International Journal of Applied Mechanics and Engineering*, 21(2), 393–406.

- 97 Madhu, M., & Kishan, N. (2016a). Finite element analysis of heat and mass transfer by mhd mixed convection stagnation-point flow of a non-newtonian power-law nanofluid towards a stretching surface with radiation. *Journal of the Egyptian Mathematical Society*, 24(3), 458–470.
- 98 Madhu, M., & Kishan, N. (2016b). Magneto-hydrodynamic mixed convection of a non-newtonian power-law nanofluid past a moving vertical plate with variable density. *Journal of the Nigerian Mathematical Society*, 35(1), 199–207.
- 99 Madhu, M., & Kishan, N. (2016c). Mhd boundary-layer flow of a non-newtonian nanofluid past a stretching sheet with a heat source/sink. *Journal of Applied Mechanics and Technical Physics*, 57, 908–915.
- 100 Madhu, M., Kishan, N., & Chamkha, A. (2016). Boundary layer flow and heat transfer of a non-newtonian nanofluid over a non-linearly stretching sheet. *International Journal of Numerical Methods for Heat & Fluid Flow*, 26(7), 2198–2217.
- 101 Madhu, M., Sandya, S., & Kishan, N. (2016). Effects of mhd and thermal radiation of nanofluid over a non-linear stretching isothermal permeable sheet with transpiration. *Journal of Nanofluids*, 5(1), 74–81.
- 102 Maripala, S., & Naikoti, K. (2016). Heat source/sink and thermal conductivity effects on micropolar nanofluid flow over a mhd radiative stretching surface. *International Research Journal of Engineering and Technology*, 3(12), 1438–1444.
- 103 Maripala, S., Naikoti, K. et al. (2016). Mhd mixed convective heat and mass transfer through a stratified nanofluid flow over a thermal radiative stretching cylinder. *International Journal of Mathematical Research*, 5(1), 40–57.
- 104 Reddy, C. S., & Naikoti, K. (2016). Mhd boundary layer flow of casson nanofluid over a non linear stretching sheet with viscous dissipation and convective condition. *Journal of Nanofluids*, 5(6), 870–879.
- 105 Shekar, B. C., Kishan, N., & Chamkha, A. J. (2016). Soret and dufour effects on mhd natural convective heat and solute transfer in a fluid-saturated porous cavity. *Journal of Porous Media*, 19(8).
- 106 Balla, C. S., & Naikoti, K. (2015a). Radiation effects on unsteady mhd convective heat and mass transfer past a vertical plate with chemical reaction and viscous dissipation. *Alexandria Engineering Journal*, 54(3), 661–671.
- 107 Balla, C. S., & Naikoti, K. (2015b). Soret and dufour effects on free convective heat and solute transfer in fluid saturated inclined porous cavity. *Engineering Science and Technology, an International Journal*, 18(4), 543–554.
- 108 Dessie, H., & Kishan, N. (2015). Unsteady mhd flow of heat and mass transfer of nanofluids over stretching sheet with a non-uniform heat/source/sink considering viscous dissipation and chemical reaction. *International Journal of Engineering Research in Africa*, 14, 1–12.
- 109 Dessie, H., & Naikoti, K. (2015). Scaling group analysis on mhd effects on heat transfer near a stagnation point on a linearly stretching sheet with variable viscosity and thermal conductivity, viscous dissipation and heat source/sink. *Theoretical and Applied Mechanics*, 42(2), 111–133.
- 110 Jagadha, S., & Kishan, N. (2015). Soret and dufour effects on mhd mixed convective heat and mass transfer flow with thermophoresis past a vertical flat plate embedded in a saturated porous medium in the presence of radiation and viscous dissipation. *Adv. App. Sci. Res*, 6(8), 67–81.
- 111 Kalyani, C., Reddy, M. C. K., & Kishan, N. (2015). Mhd mixed convection flow past a vertical porous plate in a porous medium with heat source/sink and soret effects. *American Chemical Science Journal*, 7(3), 150–159.
- 112 Kishan, N., & Amrutha, P. (2015). Variable viscosity effects on mixed convection heat and mass transfer along a semi-infinite vertical plate in the presence of chemical reaction and viscous dissipation. *International Journal of Engineering, Science and Technology*, 7(2), 27–42.

- 113 Kishan, N., Shekar, B. C. et al. (2015). Finite element analysis of fully developed unsteady mhd convection flow in a vertical rectangular duct with viscous dissipation and heat source/sink. *Journal of Applied Science and Engineering*, 18(2), 143–152.
- 114 Madhu, M., & Kishan, N. (2015a). Finite element analysis of mhd viscoelastic nanofluid flow over a stretching sheet with radiation. *Procedia Engineering*, 127, 432–439.
- 115 Madhu, M., & Kishan, N. (2015b). Magnetohydrodynamic mixed convection stagnation-point flow of a power-law non-newtonian nanofluid towards a stretching surface with radiation and heat source/sink. *Journal of Fluids*, 2015(<https://doi.org/10.1155/2015/634186>), 1–14.
- 116 Maripala, S., & Kishan, N. (2015a). Soret and dufour effects on darcy-forchheimer mhd mixed convection in a fluid saturated porous media with viscous dissipation and thermophoresis, elixir appl. *Math*, 81, 31863–31868.
- 117 Maripala, S., & Kishan, N. (2015b). Unsteady mhd flow and heat transfer of nanofluid over a permeable shrinking sheet with thermal radiation and chemical reaction. *American journal of engineering Research*, 4(6), 68–79.
- 118 Maripala, S., & Kishan, N. (2015c). Mhd convection slip flow of a thermosolutal nanofluid in a saturated porous media over a radiating stretching sheet with heat source/sink. *Advances and Applications in Fluid Mechanics*, 18(2), 177.
- 119 Maripala, S., & Naikoti, K. (2015). Hall effects on unsteady mhd free convection flow over a stretching sheet with variable viscosity and viscous dissipation. *World Applied Sciences Journal*, 33(6), 1032–1041.
- 120 Reddy, C. S., Kishan, N., & Shekar, B. C. (2015). Mhd boundary layer flow and heat transfer of a nanofluid over a shrinking sheet with mass suction and chemical reaction. *Journal of Nanofluids*, 4(4), 518–527.
- 121 Balla, C. S., & Naikoti, K. (2014). Finite element analysis of magnetohydrodynamic transient free convection flow of nanofluid over a vertical cone with thermal radiation. *Proc. Institute of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems*, 230(3), 161–173.
- 122 Chandra Shekar, B., & Kishan, N. (2014). Mhd free convective heat transfer in a porous square cavity filled with nanofluids in the presence of thermal radiation. *Journal of Energy, Heat and Mass Transfer*, 36(4), 311–330.
- 123 Dessie, H., & Kishan, N. (2014a). Heat transfer of a nanofluid over a stretching sheet with velocity slip and temperature jump in porous medium in the presence of chemical reaction and radiation. *Journal: JOURNAL OF ADVANCES IN MATHEMATICS*, 9(6), 2710–2722.
- 124 Dessie, H., & Kishan, N. (2014b). Mhd effects on heat transfer over stretching sheet embedded in porous medium with variable viscosity, viscous dissipation and heat source/sink. *Ain shams engineering journal*, 5(3), 967–977.
- 125 Dessie, H., & Kishan, N. (2014c). Scaling group analysis on mhd free convective heat and mass transfer over a stretching surface with suction/injection, heat source/sink considering viscous dissipation and chemical reaction effects. *Applications and Applied Mathematics: An International Journal (AAM)*, 9(2), 8.
- 126 Hunegnaw, D., & Kishan, N. (2014a). Mhd boundary layer flow and heat transfer over a non-linearly permeable stretching/shrinking sheet in a nanofluid with suction effect, thermal radiation and chemical reaction. *Journal of Nanofluids*, 3(4), 399–407.
- 127 Hunegnaw, D., & Kishan, N. (2014b). Unsteady mhd heat and mass transfer flow over stretching sheet in porous medium with variable properties considering viscous dissipation and chemical reaction. *American chemical science journal*, 4(6), 901–917.
- 128 Kavitha, P., & Kishan, N. (2014). Mhd flow of a non-newtonian power-law fluid over a stretching sheet with thermal radiation, viscous dissipation and slip boundary conditions. *Acta Tech*, 59(4), 355–376.

- 129 Kishan, N., Jagadha, S. et al. (2014). Thermophoresis and chemical reaction effects on mhd darcy-forchheimer mixed convection in a fluid saturated porous media. *International Journal of Engineering Trends and Technology*, 10(5), 235–243.
- 130 Kishan, N., & Kavitha, P. (2014). Magneto-hydro dynamic flow and heat transfer of nonnewtonian power-law fluid over a non-linear stretching surface with viscous dissipation. *International Journal of Applied Mechanics and Engineering*, 19(2), 259–273.
- 131 Kishan, N., Kavitha, P. et al. (2014). Mhd non-newtonian power law fluid flow and heat transfer past a non-linear stretching surface with thermal radiation and viscous dissipation. *Journal of Applied Science and Engineering*, 17(3), 267–274.
- 132 Malga, B. S., & Kishan, N. (2014). Finite element analysis for unsteady mhd heat and mass transfer free convection flow of polar fluids past a vertical moving porous plate in a porous medium with heat generation and thermal diffusion. *Journal of Naval Architecture and Marine Engineering*, 11(1), 69–82.
- 133 Maripala, S., & Kishan, N. (2014). Dufour and sores effects on convective heat and mass transfer in non-darcy doubly stratified porous media. *Srinivas Maripala Int. Journal of Engineering Research and Applications*, 4(9), 17–26.
- 134 NAIKOTI, K., & PAGDIPELLI, K. (2014). Effects of heat source/sink on mhd flow and heat transfer of a non-newtonian power-law fluid on a stretching surface with thermal radiation and slip-conditions. *Therm Sci*, 35–49.
- 135 Naikoti, K., & Vadithya, M. (2014). Thermal radiation effects on magneto hydro dynamic flow and heat transfer in a channel with porous walls of different permeability. *Thermal science*, 18(suppl. 2), 563–572.
- 136 Govardhan, K., Renuka, S., & Kishan, N. (2013). Radiation effect on mhd steady free convection flow of a gas at a stretching porous surface with a uniform free stream. *Chemical Engineering Research Bulletin*, 16(1), 16–24.
- 137 Kavitha, P., & Kishan, N. (2013). Quasilinearization approach to mhd heat transfer to non-newtonian power-law fluids flowing over a wedge with heat source/sink in the presence of viscous dissipation. *Int. J. Math. Comput. Appl. Res* 3 (2013): 15, 28.
- 138 Kishan, N., & Jagadha, S. (2013). Mhd effects on non-newtonian micro polar fluid with uniform suction/blowing and heat generation in the presence of chemical reaction and thermophoresis. *International Journal of Research in Engineering and Technology*, 2(9), 350–358.
- 139 Malga, B. S., & Kishan, N. (2013a). Mhd effects on fully developed natural convection heat and mass transfer of a micropolar fluid in a vertical channel.
- 140 Malga, B. S., & Kishan, N. (2013b). Viscous dissipation effects on unsteady free convection and mass transfer flow of micropolar fluid embedded in a porous media with chemical reaction. *Elixir Appl. Math*, 63, 18569–18578.
- 141 Malga, B. S., Nagaraju, & Kishan, N. (2013). Finite element analysis of mhd effects on micropolar fluid flow in a vertical channel. *British Journal of Engineering and Technology*, 1(5), 13–19.
- 142 Deepa, G., & Kishan, N. (2012). Hall and ion-slip effects on magneto-micropolar fluid with combined forced and free convection in boundary layer flow over a horizontal plate with viscous dissipation.
- 143 Govardhan, K., Kishan, N., & Balaswamy, B. (2012). Effect of viscous dissipation and radiation on mhd gas flow and heat and mass transfer over a stretching surface with a uniform free stream. *Journal of Engineering Physics and Thermophysics*, 85, 909–916.
- 144 Govardhan, K., Renuka, S., Kishan, N. et al. (2012). Unsteady boundary layer flow of an incompressible micropolar fluid over a porous stretching shear. *Acta Mechanica Slovaca*, 16(2), 84–90.
- 145 Kishan, N., & Deepa, G. (2012). Viscous dissipation effects on stagnation point flow and heat transfer of a micropolar fluid with uniform suction or blowing. *Advances in Applied Science Research*, 3, 430–439.

- 146 Kishan, N., & Maripala, S. (2012). Thermophoresis and viscous dissipation effects on darcy–forchheimer mhd mixed convection in a fluid saturated porous media. *Advances in applied science Research*, 3(1), 60–74.
- 147 Kishan, N., & Reddy, B. S. (2012). Mhd flow and heat transfer of a non-newtonian power-law fluid past a stretching sheet with suction/injection and viscous dissipation. *Int J Appl Math Res*, 1, 681–705.
- 148 Latha, M. D., Haritha, C., & Kishan, N. (2012). Finite difference analysis on an unsteady mixed convection flow past a semi-infinite vertical permeable moving plate with heat and mass transfer with radiation and viscous dissipation. *Advances in Applied Science Research*, 3(4), 2266–2279.
- 149 Malga, B. S., Kamatam, G., & Kishan, N. (2012). Finite element analysis of hall effects on mhd flow past an accelerated plate. *International Journal of Mathematics Research*, 4(3), 259–268.
- 150 Reddy, B. S., Kishan, N., & Rajasekhar, M. (2012). Mhd boundary layer flow of a non-newtonian power-law fluid on a moving flat plate. *Adv. Appl. Sci. Res*, 3, 1472–1481.
- 151 RENUKA, S., GOVARDHAN, K., & KISHAN, N. (2012). Effect of mhd on unsteady boundary layer flow due to a stretching surface in a rotating fluid. *Atti della Fondazione Giorgio Ronchi*, 67(5), 631.
- 152 Kishan, N., Maripala, S., & Reddy, C. S. (2011). Mhd effects on free convective heat and mass transfer in a doubly stratified non-darcy porous medium. *International Journal of Engineering Science and Technology*, 3, 5450–5462.
- 153 Malga, B. S., & Kishan, N. (2011). Viscous dissipation effects on unsteady free convection and mass transfer flow past an accelerated vertical porous plate with suction. *Advances in Applied Science Research*, 2(6), 460–469.
- 154 Naikoti, K., & Borra, S. R. (2011). Quasi-linearization approach to mhd effects on boundary layer flow of power-law fluids past a semi infinite flat plate with thermal dispersion. *Int. J. of Non-Linear Science*, 11(3), 301–311.
- 155 Kishan, N., & Amrutha, P. (2010). Effects of viscous dissipation on mhd flow with heat and mass transfer over a stretching surface with heat source, thermal stratification and chemical reaction. *Journal of Naval Architecture and Marine Engineering*, 7(1), 11–18.
- 156 Kishan, N., Reddy, M., & Govardhan, K. (2009). Mhd free convection heat and mass transfer in a doubly stratified darcy porous medium considering soret and dufour effects with viscous dissipation. *International Journal of Applied Mechanics and Engineering*, 14(3), 733–745.
- 157 Renuka, S., Kishan, N., & Rao, J. A. (2009). Finite difference solution of unsteady mhd free convective mass transfer flow past an infinite, vertical porous plate with variable suction and soret effect. *International Journal of Petroleum Science and Technology*, 3(1), 43–51.
- 158 Srihari, K., Kishan, N., & Anand Rao, J. (2008). Hall effect on mhd flow and heat transfer along a porous flat plate with mass transfer and source/sink. *Journal of energy, heat and mass transfer*, 30(4), 361–376.
- 159 Srihari, K., Anand Rao, J., & Kishan, N. (2006). Mhd free convection flow of an incompressible viscous dissipative fluid in an infinite vertical oscillating plate with constant heat flux. *Journal of Energy, Heat and Mass Transfer*, 28.
- 160 Kishan, N. (2003). Magneto hydrodynamic effects of non-newtonian power-law fluid flow along the wall of convergent channel. *The Journal of the Indian Academy of Mathematics*, 25(2), 363–370.
- 161 RAMULU, A., KISHAN, N., & RAO, J. A. (2003). Bulletin of the allahabad mathematical society volume 18, 2003, 51-61. *Bulletin of the Allahabad Mathematical Society*, 18.
- 162 Ramulu, A. S., Kishan, N., & Rao, J. A. (2002). Applied magnetic field on transient free convective flow of an incompressible viscous dissipative fluid in a vertical channel. *JOURNAL OF ENERGY HEAT AND MASS TRANSFER*, 24(1), 65–74.

- 163 Ramulu, A. S., Kishan, N., & Rao, J. A. (2001). Steady flow and heat transfer of a viscous incompressible fluid through porous medium over a stretching porous sheet. *JOURNAL OF ENERGY HEAT AND MASS TRANSFER*, 23(4), 483–495.
- 164 Sriramalu, A., Kishan, N., & Anand, R. (2001). Steady flow and heat transfer of a viscous incompressible fluid flow through porous medium over a stretching sheet. *J. Energy Heat Mass Transfer*, 23, 483–495.
- 165 Shanker, B., & Kishan, N. (1997). The effects of mass transfer on the mhd flow past an impulsively started infinite vertical plate with variable temperature or constant heat flux. *Journal of Energy Heat and Mass Transfer*, 19.

Conference Proceedings

- 1 Alluguvelli, R., Balla, C. S., Bandari, L., & Naikoti, K. (2020). Investigation on natural convective flow of ethylene glycol nanofluid containing nanoparticles Fe_3O_4 in a porous cavity with radiation. In *Aip conference proceedings* (Vol. 2269). AIP Publishing.
- 2 Jagadha, S., Gopal, D., & Kishan, N. (2020a). Nanofluid flow of higher order radiative chemical reaction with effects of melting and viscous dissipation. In *Journal of physics: Conference series* (Vol. 1451, p. 012003). IOP Publishing.
- 3 Gopal, D., & Kishan, N. (2019b). Unsteady flow of a carreau fluid over a shrinking cylinder in the occurrence of various parameter effects. In *Aip conference proceedings* (Vol. 2104). AIP Publishing.
- 4 Jagadha, S., Kalyani, K., & Kishan, N. (2019). Viscous and ohmic dissipation on non-darcy mhd nanofluid mixed convection flow in porous medium with suction/injection effects. In *Journal of physics: Conference series* (Vol. 1172, p. 012014). IOP Publishing.
- 5 Shekar, B. C., & Kishan, N. (2015). Finite element analysis of natural convective heat transfer in a porous square cavity filled with nanofluids in the presence of thermal radiation. In *Journal of physics: Conference series* (Vol. 662, p. 012017). IOP Publishing.