

PUBLISHED/ACCEPTED RESEARCH ARTICLES

- 1 R. P. Mehta, H. R. Kataria, magnetic field and heat generation effects on second grade fluid flow past an oscillating vertical plate in porous medium, *International Journal of Scientific Research in Mathematical and Statistical Sciences*, 7 (1) (2020) 01-05, E-ISSN: 2348-4519, Impact factor: 1.021, UGC Journal List Number: 63061.
- 2 R. P. Mehta, H. R. Kataria, Study of Soret effect of MHD flow of Non-Newtonian fluid with radiation and chemical reaction, *International Journal of Advanced Science and Technology*, 29 (04) (2020) 7588 – 7602, (Scopus Index), ISSN:2005-4238.
- 3 R. P. Mehta, H. R. Kataria, Radiative Effect on Parabolic Motion of Casson Fluid Flow Past Over Vertical Plate Embedded in a Porous Medium, *Mathematics Today*, 34(A) (2018) 100-114, ISSN 0976-3228, e-ISSN 2455-9601, UGC Journal List Number: 47789.
- 4 R. P. Mehta, H. R. Kataria, Mathematical analysis of Soret effect on non-Newtonian fluid flow through porous medium in presence of magnetic field, *Journal of Emerging Technologies Engineering and Innovative Research*, 5 (7) (2018) 279 – 286, ISSN: 2349-5162, Impact factor:5.87, UGC Journal List Number: 63975.
- 5 R. P. Mehta, H. R. Kataria, Influence of Magnetic Field, Thermal Radiation and Brownian Motion on Water-Based Composite Nanofluid Flow Passing Through a Porous Medium, *International Journal of Applied and Computational Mathematics*, 7 (1) (2020) 1-24, (Springer), (Scopus Index), ISSN:2349-5103, Impact factor:1.24.
- 6 R. P. Mehta, H. R. Kataria, Cross diffusion effects on motion of three dimensional cassion fluid flow past between two horizontal plates in a porous medium. *Journal of Applied Science and Engineering*, 23 (2) (2020) 319-331, (Scopus Index), ISSN:1560-6686, Impact factor: 0.6.

- 7 R. P. Mehta, H. R. Kataria, R. R. Darji, 2D Model of Casson Fluid Flow considering Soret and Dufour effects in presence of radiation, *Materials Today: Proceedings* <https://doi.org/10.1016/j.matpr.2020.11.061>, (2020). (Elsevier)(Scopus Index), ISSN: 2214-7853, Impact factor: 1.3.

COMMUNICATED RESEARCH WORK

1. R. P. Mehta, H. R. Kataria, Brownian motion and thermophoresis effects on MHD flow of viscoelastic fluid over stretching/shrinking sheet in the presence of thermal radiation and chemical reaction

PRESENTED RESEARCH WORK IN CONFERENCE

1. R. P. Mehta, H. R. Kataria, Heat generation / absorption effects on fluid past an oscillating vertical plate through porous medium, *International conference on recent advances in theoretical and computational partial differential equations with applications*, Punjab University, Chandigarh, December 05 – 09, 2016.
2. R. P. Mehta, H. R. Kataria, H. R. Patel, Effect of radiation on casson fluid flow past over an oscillating vertical plate embedded in porous medium, *International Conference on Futuristic Trends in Engineering, Science, Pharmacy and Management.*, A. D. Publication, Vadodara, December 23, 2016.
3. Mathematical Analysis of three dimensional nanofluid flow in a rotating system considering thermal interfacial resistance and micro mixing in suspensions through porous medium, *International Conference on Advances in Pure and Applied Mathematics*, Ganpat University, Mehsana, December 22 – 24, 2017.
4. R. P. Mehta, H. R. Kataria, Mathematical analysis of Soret effect on non-Newtonian fluid flow through porous medium in presence of magnetic field, *International Conference on Advances in Engineering and Technology (AIET – 2018)*, Silver Oak Group of Institutes, July 9 – 10, 2018.
5. R. P. Mehta, H. R. Kataria, R. R. Darji, 2D Model of Casson Fluid Flow considering Soret and Dufour effects in presence of radiation, *21st International Conference on Science, Engineering and Technology (ICSET-2020)*, Vellore Institute of Technology, Vellore from 30th November 2020 to 1st December 2020.