

## List of Publications out of this Thesis

### Published/Accepted for publication

- [1] **K.Sumathi, T.Arunachalam and R.Kavitha**, “Effect of Hall current on heat and mass transfer of free convective flow over a flat porous plate embedded in porous medium – A numerical investigation”, *Nonlinear Analysis and Differential Equation*, Vol. 4, No. 14, 645 - 658 (2016) - **HIKARI–International Publishers of Science**.
- [2] **K.Sumathi, T.Arunachalam and R.Kavitha**, “Effect of magnetic field on steady boundary layer slip flow along with heat and mass transfer over a flat porous plate embedded in a porous medium”, *Global Journal of Pure and Applied Mathematics*, Vol. 13, No. 2, 647 – 661(2017) (**UGC Approved**).
- [3] **K.Sumathi, T.Arunachalam and R.Kavitha**, “Thermal diffusion and magneto hydrodynamic effects on heat and mass transfer of steady, viscous incompressible, electrically conducting fluid in a rotating disk embedded in a porous medium”, *International Journal of Control Theory and Applications*, Vol. 10, 2017 (*In print*) (**Scopus Indexed - UGC Approved**).
- [4] **K.Sumathi, T.Arunachalam and R.Kavitha**, “Effect of thermal radiation and chemical reaction on three dimensional MHD fluid flow in porous medium – A Numerical Study”, *International Journal of Control Theory and Applications*, Vol. 10, 2017 (*In print*) (**Scopus Indexed - UGC Approved**).
- [5] **K.Sumathi, T.Arunachalam, and R.Kavitha**, “A Numerical investigation of heat and mass transfer of three dimensional MHD free convective flow over a flat porous plate embedded in a porous medium”, *International Journal of Fluid Mechanics*, 2017(*In print*).

### Communicated

- [6] **K.Sumathi, T.Arunachalam and R.Kavitha**, “Combined effects of Hall and Ion-slip currents on steady free-convective MHD flow of an incompressible viscous and electrically conducting fluid with heat and mass transfer over a porous flat plate embedded in porous medium”, *Indian Journal of Science and Technology* (**Scopus Indexed – UGC Approved**).

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