RESUME

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Educational Qualification: M.Sc., M.Phil., Ph.d

Title of the Ph.D Thesis:

Fluid flow and heat transfer studies of MHD peristaltic motion in an asymmetric channel: physiological and industrial applications.

Teaching experience:

1. Worked as Assistant Professor, Department of Mathematics in JEI Mathaajee College of engineering, from 01-09-2016 to 05-02-2021.
2. Worked as Assistant Professor, Department of Mathematics in Sri Akilandeswari Womens College, from 01-09-2012 to 31-08-2016.

International Publications:

1. P.Tamizharasi, R.Vijayaragavan, A.Magesh, 2021, 'Heat and Mass transfer analysis of the peristaltic driven flow of nanofluid in an asymmetric channel', Partial Differential Equations in Applied Mathematics 4, 100087.

2. P.Tamizharasi, et al, 2021, 'Effect of magnetic field on the peristaltic transport of Oldroyd-B fluid in an asymmetric inclined channel', Journal of Physics: Conference Series.1850, 012111.

3. R.Vijayaragavan, P.Tamizharasi, A.Magesh, 2022, 'Brownian motion and thermoporesis effects of nanofluid flow through the peristaltic mechanism in a vertical channel', Journal of Porous Media, 25(6), 65-81 **(Annexure 1)**

4. A.Magesh, P.Tamizharasi, R.Vijayaragavan, 2022, 'MHD flow of (Al_2O_3/H_2O) nanofluid under the peristaltic mechanism in an asymmetric channel', Heat transfer, 51(7), 6563-6577.

5. P.Tamizharasi, R Vijayaragavan, A Magesh, 2023, 'Electro-osmotic driven flow of Eyring Powell nanofluid in an asymmetric channel', Mathematical Methods In The Applied Sciences, 46,13540-13557. **(Annexure 1)**

6. A.Magesh, P.Tamizharasi, R. Vijayaragavan, 2023, 'Non-Newtonian fluid flow with the influence of induced magnetic field through a curved channel under peristalsis', Heat Transfer, Wiley, DOI:10.1002/htj.22912.

7. Sara I. Abdelsalam, A. Magesh, P. Tamizharasi, A.Z. Zaher, 2023, 'Versatile response of a Sutterby nanofluid under activation energy: hyperthermia therapy', International Journal of Numerical Methods for Heat & Fluid Flow, Doi: https://doi.org/10.1108/HFF-04-2023-0173. **(Annexure 1)**

8. A Magesh, P.Tamizharasi, 2023, 'Analysis of Bejan number and Entropy generation of Non-Newtonian nanofluid through an asymmetric microchannel', Numerical Heat Transfer, Part A: Applications, 10.1080/10407782.2023.2240507 **.(Annexure 1).**

9. P.Tamizharasi, R Vijayaragavan, A Magesh, 2023, 'Peristaltic motion of Non-Newtonian fluid under the influence of inclined magnetic field, porous medium and chemical reaction', Scientia Iranica, **(Annexure 1)**

Paper presented in the conferences

1   Presented paper entitled 'Effect of magnetic field on the peristaltic movement of Oldroyd-B fluid in a curved channel' in International Conference on Mathematical Modelling Analysis and Computing -2022 (MMAC 2022) organized by Department of Mathematics, Thiruvalluvar University, Serkadu, Vellore from September 14-16, 2022.

2   Presented paper entitled 'Peristaltic motion of non-Newtonian fluid in a curved channel under the impact of induced magnetic field' in International Conference on Mathematics and Computing-2022 (ICMC 2022) organized by the Department of Mathematics, VIT, Vellore from January 6-8, 2022.