

Basic Details:

- **Name:** Ms. M. Saraswathy
- **Designation:** Assistant Professor (OG)
- **Phone Number:** 6381554802
- **Email ID:** sraswan4@srmist.edu.in
- **Area or Subject:** Computational Fluid Dynamics
- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

Educational Details:

1. Ph. D. Mathematics –SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, (Viva voce on 01/09/2023).
2. M.Sc. Mathematics –PSG College of Arts and Science, Bharathiar University, Coimbatore, Tamil Nadu, 2019.
3. B.Sc. Mathematics –Bishop Heber College, Bharathidasan University, Trichy, Tamil Nadu, 2017.

Research Interests: Computational Fluid Dynamics

Publications:

1. Saraswathy, M., et al. "Arrhenius energy on asymmetric flow and heat transfer of micropolar fluids with variable properties: A sensitivity approach." *Alexandria Engineering Journal*. 2022 Dec 1;61(12):12329-12352. (SCI Indexed, IF: **6.234**) Citations: 3 (As of now)
2. Saraswathy, M., et al. "MHD Micropolar Fluid in a Porous Channel Provoked by Viscous Dissipation and Non-Linear Thermal Radiation: An Analytical Approach." *Mathematics*. 2022 Dec 29;11(1):183. (SCI Indexed, IF: **2.592**)
3. Saraswathy, M., et al. "Theoretical Study on Bio Convection of Micropolar Fluid with an

Exploration of Cattaneo-Christov Heat Flux Theory.” International Journal of Modern Physics-B, (SCI Indexed, IF: 1.404) DOI: 10.1142/S0217979224500164

4. Prakash, D., Saraswathy, M., Kumar. S., "Transient Convective Heating Transport of the Micropolar Fluid Flow Between Asymmetric Channel with Activation Energy." *IOP Conference Series: Materials Science and Engineering*. 2021 Apr 1 (Vol. 1130, No. 1, p. 012049). IOP Publishing.

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5. Submitted a paper entitled “A Novel Investigation on Non-Uniform Heat Source/Sink for Enhancing the Thermal Efficiency of Micropolar Fluids Subjected to PST and PHF Conditions - Modeled by Response Surface Methodology” (Under Review)

6. Submitted a paper entitled “Optimization of Darcy Forchheimer flow homogeneous and heterogeneous of micropolar fluid in a channel by Taguchi. (Under Review)

Academic Experience: Nil

Other Professional Experience: Nil

Other Details:

Achievements and Awards: Nil

Membership: Nil

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