

Name :Dr. S. Eswaramoorthi
Designation :Professor
Department :Mathematics
Qualification :M.Sc., M.Phil., Ph.D.,
Experience :Teaching: 14 Years Industry: Nil Research: - 11
Area of Specialization(s) :Fluid Dynamics
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Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Mathematics	Erode Arts and Science College, Erode	2016
M.Phil.	Mathematics	Bharathiar University, Coimbatore	2007
M.Sc.	Mathematics	Erode Arts College, Erode	2006
B.Sc.	Mathematics	Gobi Arts and Science College, Gobi	2003

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
SET	Nil	Nil	Nil
Online Certificate	Nil	Nil	Nil

Grants Received

Event Title	Agency	Amount	Date
National Level Workshop on Computational methods in Fluid Dynamics	CSIR, New Delhi	Rs. 15,000	31-July-17

Projects

Completed

Project Title	Agency	Amount	Duration
Nil	Nil	Nil	Nil

On-going

Project Title	Agency	Amount	Duration
Nil	Nil	Nil	Nil

Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph. D.	-	4
M. Phil.	-	1

Research Publications (Indexed)

International

1. S. Eswaramoorthi, M. Bhuvaneshwari, S. Sivasankaran and S. Rajan, **Effect of radiation on MHD convective flow and heat transfer of a viscoelastic fluid over a stretching surface**, Procedia Engineering, 127, pp. 916-923, 2015 (Scopus).
2. S. Eswaramoorthi, M. Bhuvaneshwari, S. Sivasankaran and S. Rajan, **Soret and Dufour effects on viscoelastic boundary layer flow, heat and mass transfer in a stretching surface with convective boundary condition in the presence of radiation and chemical reaction**, Scientia Iranica Transaction B, Mechanical Engineering, 23(6), pp. 2575-2586, 2016(SCIE).
3. S. Eswaramoorthi, M. Bhuvaneshwari, S. Sivasankaran and S. Rajan, **Hydrodynamic slip effect on MHD combined convection of a Williamson nanofluid**, International Journal of Pure and Applied Mathematics, 117(11), pp. 327-333, 2017.
4. S. Eswaramoorthi, M. Bhuvaneshwari, S. Sivasankaran, H. Niranjana and S. Rajan, **Effect of partial slip and chemical reaction on convection of a viscoelastic fluid over a stretching surface with Cattaneo-Christov heat flux model**, IOP Conf. Series: Materials Science and Engineering, 263, pp. 1-8, 2017 (Scopus).
5. S. Eswaramoorthi, S. Sivasankaran, M. Bhuvaneshwari and S. Rajan, **Effects of multiple slip on MHD combined convective flow of viscoelastic nanofluid over a stretchy sheet with heat absorption**, IOP Conf. Series: Materials Science and Engineering, 390, 2018, 012096 (Scopus).
6. S. Eswaramoorthi, K. Loganathan, S. Sivasankaran, M. Bhuvaneshwari and S. Rajan, **MHD flow of Carreau liquid with partial slip and Newtonian heating**, International Journal of Engineering & Technology, 7 (4.10), 2018, 637-640.
7. S. Eswaramoorthi, M. Bhuvaneshwari, S. Sivasankaran, O.D. Makinde, **Heterogeneous and homogeneous reaction analysis on MHD Oldroyd-B fluid with Cattaneo-Christov heat flux model and convective heating**, Defect and Diffusion Forum, 387, pp 194-206 (Scopus).
8. S. Eswaramoorthi, S. Sivasankaran and Ali Saleh Alshomrani, **Effect of chemical reaction and heat generation on 3D double diffusive convection over a stretching plate: Numerical and analytical study**, IOP Conf. Series: Journal of Physics: Conf. Series, 1139 (2018) (Scopus).
9. S. Eswaramoorthi, S. Sivasankaran and Ali Saleh Alshomrani, **Effect of thermal radiation and heat absorption of MHD Casson nanofluid over a stretching surface in a porous medium with convective heat and mass conditions**, IOP Conf. Series: Journal of Physics: Conf. Series, 1139 (2018) 012017 (Scopus).
10. M. Sankar, S. Kemparaju, B.M.R. Prasanna and S. Eswaramoorthi, **Buoyant convection in porous annulus with discrete sources-sink pairs and internal heat generation**, IOP Conf. Series: Journal of Physics: Conf. Series, 1139 (2018) 012026 (Scopus).

11. M Bhuvaneshwari, S Eswaramoorthi and S Sivasankaran, **Thermal radiation and cross diffusion effects on 3D convective flow of a viscoelastic fluid over a stretchy paper with chemical reaction**, IOP Conf. Series: Journal of Physics: Conf. Series, 1139 (2018) 012029 (Scopus).
12. M. Bhuvaneshwari, S. Sivasankaran, H. Niranjana and S. Eswaramoorthi, **Cross diffusion effects on MHD convection of Casson-Williamson fluid over a stretching surface with radiation and chemical reaction**, Trends in Mathematics, 139-146 (Scopus).
13. Marimuthu BHUVANESWARI, Sheniyappa ESWARAMOORTHIL, Sivanandam SIVASANKARAN and Ahmed Kadhim HUSSEIN, **Cross-diffusion effects on MHD mixed convection over a stretching surface in a porous medium with chemical reaction and convective condition**, Engineering Transactions, 67(1): 3–19, (2019) (Scopus).
14. S. Eswaramoorthi, M. Bhuvaneshwari, **Passive and active control on 3D viscoelastic nanofluid flow including heat generation and convective heating**, Frontiers in Mechanical Engineering, 5(36), pp. 1-7, 2019.
15. M. Bhuvaneshwari, S. Eswaramoorthi, S. Sivasankaran, S. Rajan and Ali Saleh Alshomrani, **Effect of viscous dissipation and convective heating on convection flow of a second grade fluid over a stretching surface: Analytical and numerical study**, Scientia Iranica Transaction B, Mechanical Engineering, 26(3), pp. 1350-1357, (2019) (SCIE).
16. Sheniyappa Eswaramoorthi, Marimuthu Bhuvaneshwari, S Sivasankaran, Oluwale Daniel Makinde, **Analytical and Numerical Study on Cross Diffusion Effects on Magneto-Convection of a Chemically Reacting Fluid with Suction/Injection and Convective Boundary Condition**, Defect and Diffusion Forum, 401, 63-78, 2020(Scopus).
17. S. Eswaramoorthi, K. Jagan, S. Sivasankaran, **MHD bioconvective flow of a thermally radiative nanofluid in a stratified medium considering gyrotactic microorganisms**, Journal of Physics: Conference Series, 1597, 1-10, 2020(Scopus).
18. F.O.M. Mallawi, M. Bhuvaneshwari, S. Sivasankaran, S. Eswaramoorthi, **Impact of double stratification on convective flow of a non-Newtonian liquid in a Riga plate with Cattaneo-Christov double-flux and thermal radiation**, Ain Shams Engineering Journal, 12(1), 969–981, 2021(SCIE).
19. S. Eswaramoorthi, M. Bhuvaneshwari, S. Sivasankaran, H. Niranjana, **Thermally radiative flow of a viscoelastic nanofluid with Newtonian heating**, International Journal of Nanotechnology, 18(5- 8), 705-718, 2021(SCIE).
20. F.O.M. Mallawi, S. Eswaramoorthi, S. Sivasankaran, M. Bhuvaneshwari, **Impact of stratifications and chemical reaction on convection of a non-Newtonian fluid in a Riga plate with thermal radiation and Cattaneo-Christov flux**, Journal of Thermal Analysis and Calorimetry, 1- 17, 2021(SCIE).
21. S. Eswaramoorthi, Nazek Alessa, M. Sangeethavaanee, Ngawang Namgyel, **Numerical and Analytical Investigation for Darcy-Forchheimer Flow of a Williamson Fluid over a Riga Plate with Double Stratification and Cattaneo-Christov Dual Flux**, Advances in Mathematical Physics, 2021(SCIE).
22. S Eswaramoorthi, Nazek Alessa, M. Sangeethavaanee, Safak Kayikci, Ngawang Namgyel, **Mixed Convection and Thermally Radiative Flow of MHD Williamson Nanofluid with Arrhenius Activation Energy and Cattaneo–Christov Heat-Mass Flux**, Journal of Mathematics, 2021(SCIE).
23. FOM Mallawi, S Eswaramoorthi, M Bhuvaneshwari, S Sivasankaran, **Impact of double-diffusion and slip of order 2 on convection of chemically reacting Oldroyd-B liquid with Cattaneo-Christov dual flux**, Thermal Science 25 (5B), 3729-3740 (SCIE).
24. S Eswaramoorthi, S Divya, M Faisal, N Namgyel, **Entropy and heat transfer analysis for mhd flow of water-based nanofluid on a heated 3D plate with nonlinear radiation**, Mathematical Problems in Engineering, 2022 (SCIE).

Conference / Seminar / Workshop Organized

1. Organizing Secretary, International Conference on “Applied and Computational Mathematics” on 10/08/2018.
2. Convener, Three day National Level Workshop on “Computational methods in Fluid Dynamics” on 23/01/2017 to 25/11/2018 sponsored by CSIR, India.
3. Organizing Secretary, two day National Level Conference on Recent Advances in Theoretical and Computational Method for Partial Differential Equations on 06/01/2017 to 07/01/2017 sponsored by SERB, India.
4. Organizing Secretary, Two day National Level Conference on Emerging Trends in Pure and Applied Mathematics on 14/09/2015 to 15/09/2015.
5. Organizing Secretary, Two day International Level Conference on Mathematical Science and its Computational Applications on 11/08/2014 to 12/08/2014.
6. Convener, National Level Conference on Optimization Techniques and Decision Making Analysis on 25/09/13.
7. Convener, National Level Conference on Mathematical Sciences and its Computational Aspects on 07/02/13.
8. Convener, International Level Conference on Mathematical Modelling, Analysis and Computational Applications on 23/02/2011.

Member in BoS

- Board of Mathematics, Erode Arts and Science College, Erode, since 2018.
- Board of Mathematics, Sri Ramakrishna College of Arts and Science, Coimbatore, since 2019.

Editorial / Review Board Member

- Guest Editor, IOP:Journal of Physics: Conference Series, Volume No. 1139, 2018 (Scopus).
- Guest Editor, IOP:Journal of Physics: Conference Series, Volume No. 1597, 2020 (Scopus).

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Nil	Nil	Nil

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Nil	Nil	Nil