KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(AUTONOMOUS)

NAMAKKAL - TRICHY MAIN ROAD, THOTTIAM, TRICHY

DEPARTMENT OF AGRICULTURAL ENGINEERING

FACULTY PUBLICATIONS

INTERNATIONAL / NATIONAL JOURNELS

Academic Year 2024 - 2025

S.NO	DETAILS
1	Dhairiyasamy R, **Kavinila R**, Varshney D, Singh S, Gabiriel D, Murugesan E. Experimental Analysis of Silver Nanoparticles In Heat Pipes: A Comparative Study of Nanosphere And Nanocube Morphologies. Mattech 59(3):373–382.
2	D. Vasudevan, D. Senthil Kumar, M. Venkatesan, A. Kumaravel, **P. Dineshkumar**, A. Sankar. Study of reduced graphene oxide-based nanofluids properties for heat transfer applications. *Dig. J. Nanomater. Bios.* 2025, 20(2), 633-641. https://doi.org/10.15251/DJNB.2025.202.633
3	**Dineshkumar Periannan**, Ratchagaraja Dhairiyasamy, Deekshant Varshney, Subhav Singh, Bahaa Saleh, Ahmed Hassan, "Enhancing heat pipe efficiency using silver nanomaterial nanofluids: a hybrid approach with carbon nanotubes, graphene and quantum Dot-MOS compositions" RevistaMateria, Vol.3.
4	R. Dhairiyasamy, M. Venkatasudhahar, **S. Mahendren**, B. Saleh, D. Varshney, S. Singh. Enhanced heat transfer in copper heat pipes using hybrid nanofluids: experimental and RSM analysis. *Dig. J. Nanomater. Bios.* 2025, 20(1), 287-300. https://doi.org/10.15251/DJNB.2025.201.287
5	Sivakumar Jaganathan, Venkatasudhahar Murugesan, **Dineshkumar Periannan**, Jegan Manickam Manivannan, Subhav Singh, Deekshant Varshney and Ratchagaraja Dhairiyasamy, "Oxidative degradation and performance of jatropha biodiesel blends: implications for clean energy and sustainability", Global Nest,V.27,No.3,06833.
6	Prabhakaran Sivaraman, Visagavel Kolandaivel, **Mukilan Natesan**, Ratchagaraja Dhairiyasamy "Emission Reduction and Efficiency gains in LHR engines using natural antioxidants in biodiesel blends" International Journal of Automotive Technology,on February 2025.
7	K. Gunasekaran, P. Suresh, **V. Gopinath**, D. Ratchagaraja, "Optimization of silver nanoparticle-enhanced nanofluids for improvedthermal management in solar thermal collectors", RevistaMatéria, Vol.29, Issue No. 3, DOI : https://doi.org/10.1590/1517-7076-RMAT-2024-0363.
8	Prabhu Alphonse, **Veera Karunya Gunasekaran**, Ratchagaraja Dhairiyasamy, Deekshant Varshney, Subhav Singh, Deepika Gabiriel "Comparative analysis of nanomaterials in heat pipe performace under variable operational conditions", Revista Materia, ISSN No:1517-7076 Volume 29, No.4, February 2025.

9	Rajukkannu, S., Bunpheng, W., Dhairiyasamy, R., **Gopinath, V**. "Efficiency improvement in silicon and perovskite solar cells through nanofluid cooling using citrate and PVP stabilized silver nanoparticles". *Sci Rep* **15**, 833 (2025). https://doi.org/10.1038/s41598-025-85374-8
10	M. Uma Maguesvari, D. Jegatheeswaran, M. Muthu Kumar, **S. Satheeshkumar**, "Nano-boosted concrete: Revolutionizing Strength and Durability for Modern Construction", RevistaMatéria, Vol.29, Issue No.4, DOI: https://doi.org/10.1590/1517-7076-RMAT-2024-0521.
11	S. Sivakumar, G. Narendra Laxman, M. Venkatasudhahar, **M. Prabhu**, D. Ratchagaraja "Experimental investigations on spray characteristics of nonedible oils using phase doppler particle analyser", RevistaMatéria, Vol.29, Issue No. 3, DOI : https://doi.org/10.1590/1517-7076-RMAT-2024-0415.
12	K. Gunasekaran, P. Suresh, **V. Gopinath**, D. Ratchagaraja, "Optimization of silver nanoparticle-enhanced nanofluids for improvedthermal management in solar thermal collectors", RevistaMatéria, Vol.29, Issue No. 3, DOI : https://doi.org/10.1590/1517-7076-RMAT-2024-0363.