

Name: Dr. R. Kamatchi

Designation: Associate Professor

Organization: Vellore Institute of Technology, Vellore

Publications:

1. K Gopi Kannan, R Kamatchi, "Assessment of power harvesting in electronic modules using phase change material with null electricity: An experimental study", International Journal of Renewable Energy Research, Vol 10, pp 1755-1763, 2020.
2. G. Kumaresan Kalaimagam Dhanapal, Mohan Raman, R. Kamatchi, " Role of method of synthesis on the size of flakes, dispersion stability and thermophysical properties of aqua based reduced graphene oxide nanofluids", Journal of Thermal Analysis and Calorimetry, pp 1-13, 2020.
3. K Gopi Kannan, R Kamatchi, " Augmented heat transfer by hybrid thermosyphon assisted thermal energy storage system for electronic cooling", Journal of Energy Storage, Vol 27, pp101146, 2020.
4. G. Kumaresan P. Vijayakumar M. Ravikumar R. Kamatchi P. Selvakumar, "Experimental study on effect of wick structures on thermal performance enhancement of cylindrical heat pipes", Journal of Thermal Analysis and Calorimetry, Vol 136, pp 389-400, 2019.
5. A.S. Krishnan K Gopi kannan, R. Kamatchi, T. Venkatajalapathi, "Enhanced Heat Transfer by Thermosyphon Method in Electronic Devices", International Journal of Heat And Technology, Vol 36, pp 339-343, 2018.
6. R Kamatchi, K Gopi Kannan, "An Aqua Based Reduced Graphene OxideNanofluids for Heat Transfer Applications: Synthesis, Characterization, Stability Analysis, and Thermophysical Properties", International Journal of Renewable Energy Research, Vol 8, pp 313-319, 2018.
7. R Kamatchi, G Kumaresan, "Investigations on pool boiling critical heat flux, transient characteristics and bonding strength of heater wire with aqua based reduced graphene oxide nanofluids", Chinese Journal of Chemical Engineering, Vol 26, pp 445-454, 2018.
8. R. Kamatchi M. Vijayakumar, P. Navaneethakrishnan, G. Kumaresan, "A study on heat transfer characteristics of inclined copper sintered wick heat pipe using surfactant free CuO and Al₂O₃ nanofluids", Journal of the Taiwan Institute of Chemical Engineers, 2017.
9. R Kamatchi, "Experimental investigations on nucleate boiling heat transfer of aqua based reduced graphene oxide nanofluids", Heat and Mass Transfer, 2017.
10. R Kamatchi, S Venkatachalapathy, C Nithya," Experimental investigation and mechanism of critical heat flux enhancement in pool boiling heat transfer with nanofluids", Heat and Mass Transfer, Vol 52, pp 2357-2366, 2016.

11. R Kamatchi, S Venkatachalapathy, B Abhinaya Srinivas, "Synthesis, stability, transport properties, and surface wettability of reduced graphene oxide/water nanofluids", International Journal of Thermal Sciences, Vol 97, pp 17-25, 2015.
12. R Kamatchi, S Venkatachalapathy,"Parametric study of pool boiling heat transfer with nanofluids for the enhancement of critical heat flux: a review", International Journal of Thermal Sciences, Vol 87, pp 228-240, 2015.