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Area of specialization:	Boiling Heat Transfer with Nanofluids

List of Publications:

1. **Kamatchi, R.**, & Venkatachalapathy, S. (2015). Parametric study of pool boiling heat transfer with nanofluids for the enhancement of critical heat flux: a review. *International Journal of Thermal Sciences*, 87, 228-240.
2. **Kamatchi, R.**, Venkatachalapathy, S., & Srinivas, B. A. (2015). Synthesis, stability, transport properties, and surface wettability of reduced graphene oxide/water nanofluids. *International Journal of Thermal Sciences*, 97, 17-25.
3. **Kamatchi, R.**, Venkatachalapathy, S., & Nithya, C. (2016). Experimental investigation and mechanism of critical heat flux enhancement in pool boiling heat transfer with nanofluids. *Heat and Mass Transfer*, 52(11), 2357-2366.
4. Vijayakumar, M., Navaneethakrishnan, P., Kumaresan, G., & **Kamatchi, R.** (2017). 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*, 81, 190-198.
5. **Kamatchi, R.**, & Kumaresan, G. (2018). 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*, 26(3), 445-454.
6. Kumaresan, G., Vijayakumar, P., Ravikumar, M., **Kamatchi, R.**, & Selvakumar, P. (2019). Experimental study on effect of wick structures on thermal performance enhancement of cylindrical heat pipes. *Journal of Thermal Analysis and Calorimetry*, 136(1), 389-400.

7. **Kamatchi, R.** (2018). Experimental investigations on nucleate boiling heat transfer of aqua based reduced graphene oxide nanofluids. *Heat and Mass Transfer*, 54(2), 437-451.
8. Kannan, K. G., **Kamatchi, R.**, Venkatajalapathi, T., & Krishnan, A. S. (2018). Enhanced heat transfer by thermosyphon method in electronic devices. *Journal homepage: <http://iieta.org/Journals/IJHT>*, 36(1), 339-343.
9. **Kamatchi, R.**, & Kannan, K. G. (2018). An aqua based reduced graphene oxide nanofluids for heat transfer applications: synthesis, characterization, stability analysis, and thermophysical properties. *INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH*, 8(1), 313-319.
10. Kannan, K. G., & **Kamatchi, R.** (2020). Augmented heat transfer by hybrid thermosyphon assisted thermal energy storage system for electronic cooling. *Journal of Energy Storage*, 27, 101146.
11. Dhanapal, K., Raman, M., **Kamatchi, R.**, & Kumaresan, G. (2020). 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*, 1-11.