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Area of Specialization: Heat Exchanger

List of Publications:

- 1) M. Shahul Hameed, **S. Suresh** (Accepted for publish) Convective Heat Transfer and Pressure drop characteristics of Al₂O₃-CNT/Water Hybrid Nanofluid in Straight Circular Tube Under Turbulent Flow. *Journal of Nano fluids*
- 2) D.K. Singh, **S. Suresh** and H. Singh (In Press) Graphene nanoplatelets enhanced myo-inositol for solar thermal energy storage. *Thermal Science and Engineering Progress*
- 3) B.A.J. Rose, H. Singh, N. Verma, S. Tassou, **S. Suresh**, N. Anantharaman, D. Mariotti; P. Maguire (2017) Investigations into nanofluids as direct solar radiation collectors. *Solar Energy*, volume 147, page 426-431
- 4) Durgesh Singh, H. Singh, **S. Suresh**, B.A.J Rose, S. Tassou, N. Anantharaman (2017) Myoinositol based nano PCM for solar thermal energy storage. *Applied Thermal Engineering*, volume 110, page 564-572
- 5) R. Ajith Krishnan, K.R. Balasubramanian, **S. Suresh** (2017) The effect of heating area orientation on flow boiling performance in microchannels heat sink under subcooled condition. *International Journal of Heat and Mass Transfer*, volume 110, page 276-293
- 6) Manoop Muraleedharan, H. Singh, **S. Suresh**, M. Udayakumar (2016) Directly absorbing Terminol-Al₂O₃ Nano heat transfer fluid for linear solar concentrating collectors. *Solar Energy*, volume 137, page 134-142
- 7) A Dominic, J Sarangan, **S Suresh**, VS Devahdhanush (2016) An experimental study of heat transfer and pressure drop characteristics of divergent wavy minichannels using nanofluids. *Heat and Mass Transfer Springer*, volume 53, page 959-971
- 8) M Arulprakasajothi, K Elangovan, KHC Reddy, **S Suresh** (Proceedings) Heat Transfer Study of Water-based Nanofluids Containing Titanium Oxide Nanoparticles. *Materials Today*, volume 2(4), page 3648-3655
- 9) M Arulprakasajothi, K Elangovan, KHC Reddy, **S Suresh** (2016) Experimental investigation on heat transfer effect of conical strip inserts in a circular tube under laminar flow. *Frontiers in Energy*, page 1-7
- 10) Dharmendra M, Sivan Suresh, Sujith Kumar C.S., Qiaoqin Yang, Pool boiling heat transfer enhancement using vertically aligned CNT coating on a copper substrate. *Applied Thermal Engineering*, volume 99, page 61-71
- 11) AS Praveen, J Sarangan, **S Suresh**, BH Channabasappa (2016) Optimization and erosion wear response of NiCrSiB/WC-Co HVOF coating using Taguchi method. *Ceramics International*, volume 42(1), page 1094-1104
- 12) CSS Kumar, **S Suresh**, AS Praveen, MCS Kumar, V Gopi (2016) Effect of surfactant addition on hydrophilicity of ZnO-Al₂O₃ composite and enhancement of flow boiling heat transfer. *Experimental Thermal and Fluid Science*, volume 70, page 325-334
- 13) Ayyappan Susila Praveen, J Sarangan, **S Suresh**, J Siva Subramanian (2015) Erosion wear behaviour of plasma sprayed NiCrSiB/Al₂O₃ composite coating. *International Journal of Refractory Metals and Hard Materials*, volume 52, page 209-218
- 14) A Dominic, J Sarangan, **S Suresh**, VS Devahdhanush (2015) An Experimental Investigation of Wavy and Straight Minichannel Heat Sinks Using Water and Nanofluids. *Journal of Thermal Science and Engineering Applications*, volume 7(3), page 031012
- 15) M Satheeshkumar, MR Thansekhar, C Anbumeenakshi, **S Suresh** (2015) Effect of Geometrical Parameters on Flow Mal-Distribution in a Wavy Microchannel. *Applied Mechanics and Materials*, volume 813, page 674-678
- 16) S Venkatachalapathy, G Kumaresan, **S Suresh** (2015) Performance analysis of cylindrical heat pipe using nanofluids—An experimental study. *International Journal of Multiphase Flow*, volume 72, page 188-197
- 17) Sujith Kumar, **S Suresh**, CR Aneesh, Santhosh Kumar, AS Praveen, K Raji (2015) Flow boiling heat transfer enhancement on copper surface using Fe doped Al₂O₃–TiO₂ composite coatings, *Applied Surface Science*, volume 334, page 102-109
- 18) M Arulprakasajothi, **S Suresh**, K Elangovan, K Hemachandra (2015) Experimental Study of Preparation, Characterization and Thermal Behavior of Water-based Nanofluids. *Applied Mechanics & Materials*, volume 766-767, page 348-354

- 19) S Kumar, **S Suresh**, Q Yang, CR Aneesh (2014) An experimental investigation on flow boiling heat transfer enhancement using spray pyrolysed alumina porous coatings. Applied Thermal Engineering, volume 71, page 508-518