

Dr. G. RAVIKUMAR SOLOMON, M.E., Ph.D.,
Professor,
Department of Mechanical Engineering,
Hindustan Institute of Technology and Science, Padur.
rksolemon@hindustanuniv.ac.in,



Experience : 31 Years

Research area : Thermodynamics, Gas dynamics,
Thermal storage, Energy applications,
Heat Exchangers and Heat Transfer.

Recent Publications:

1. Gnanadurai Ravikumar Solomon, Karthikeyan, S. and Ramalingam Velraj. "Sub cooling of PCM due to various effects during solidification in a vertical concentric tube thermal storage unit" *Applied Thermal Engineering* Vol. 52 (2), pp. 505-511, 2013.
2. Ravikumar Solomon, G., Ravikumar, T.S., Antony Aroul Raj, V. and Velraj, R. "Performance analysis of thermal storage unit with possible nano enhanced Phase Change Material in building cooling applications" *Energy Storage Science and Technology*, Vol. 2(2), pp. 91-102, 2013.
3. Gnanadurai Ravikumar Solomon, and R. Velraj. "Analysis of the heat transfer mechanisms during energy storage in a Phase Change Material filled vertical finned cylindrical unit for free cooling application" **Energy Conversion and Management**, Vol. 75, pp. 466-473, 2013.
4. Karthikeyan, S., Gnanadurai Ravikumar Solomon, Kumaresan, V. and Ramalingam Velraj. "Parametric studies on packed bed storage unit filled with PCM encapsulated spherical containers for low temperature solar air heating application" **Energy Conversion and Management**, Vol. 78, pp. 74-80, 2014
5. Rajagopal, M., Ravikumar Solomon, G., Chetty K. Jayasudha. and Velraj, R. "Free cooling potential and technology options for thermal energy management of a commercial building in Bangalore city, India" *Energy Engineering*, Vol.. 3(2), pp. 11-24, 2014
6. Aneesh, V., and Ravikumar Solomon, G., "Review on heat transfer enhancement during solidification of PCM." *IOSR journal e-ISSN*, pp. 2278-1684, 2014.
7. Muthuswamy Padmakumar, Dinakaran, D., Ravikumar Solomon, G., and Vijay Sekar, KS. "Performance Evaluation of Cryogenically Treated Tungsten Carbide Insert on Face Milling of Grey Cast Iron." In *Applied Mechanics and Materials*, vol. 813, pp. 569-574, 2015.
8. Gnanadurai Ravikumar Solomon, and Afsar Alam, Md. "Performance

Analysis and Experimental Investigation of Heat Exchanger Material by CFD". International Journal of Applied Engineering Research Vol. 10(57), pp. 488-494, 2015.

9. Gnanadurai Ravikumar Solomon, and Thirumalai, S. "Experimental Study on the Solidification Behavior of Nano Enhanced PCM used for free cooling Applications", International Journal of Applied Engineering Research, Vol. 10(57), pp. 571-574, 2015.
10. Sathish, S., Chandrasekaran, M., and Gnanadurai Ravikumar Solomon. "Effect of total solids and agitation time on biogas yield, using rice husk." International Journal of Ambient Energy, Vol. 40(1), pp. 101-104, 2019.
11. Ashish Selokar, John Presin Kumar A, Gnanadurai Ravikumar Solomon, Sivakumar S, Balaji R, Mukesh Nadarajan. "Air Quality Effects of Pollutant Gases from Brick Kilns near Chennai", International Journal of Recent Technology and Engineering, Vol. 8(3), pp. 2284-2291, 2019.
12. R.Sathish Babu, A.John Presin Kumar, Gnanadurai Ravikumar Solomon, S. Sivakumar, S. Sathish, S. A. Harikrishnan. "Pollution hazard caused by Anti-Disease Drugs in hospital environments near Chennai", International Journal of Recent Technology and Engineering, Vol. 8(3), pp. 6401-6405, 2019.
13. Gnanadurai Ravikumar Solomon, Hariram, V., Raj, D.S., Gokulakesavan, N.K.,Seralathan. "Evaluation of the transesterification process and physio-chemical properties of jojoba biodiesel", International Journal of Innovative Technology and Exploring Engineering, Vol. 9(1), pp. 2553-2557, 2019.
14. SM Shafee, K Gnanasekaran, Gnanadurai Ravikumar Solomon, PSA Banu. "Analysis of heat transfer mechanisms during Energy Storage in a vertical cylindrical unit filled with Nano Enhanced Phase Change Material for free cooling applications", Materials Today: Proceedings, Vol. 22, pp. 743-750, 2020.