

## Faculty Profile:

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Experience: 26 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. Padmakumar, Muthuswamy, D. Dinakaran, **Solomon G. Ravikumar**, and Sekar KS Vijay. "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 Md. Afsar Alam, "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 S.Thirumalai, "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., M. Chandrasekaran, 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.**