

Name : **Dr. V. MARIAPPAN**
Designation : Associate Professor
Department : Mechanical Engineering
Address : National Institute of Technology, Trichy
Trichy, Tamilnadu -620 015, India.

Mobile: +91 9894471094

Email: vmari1975@gmail.com

List of Publications in Last Five years

1. V. Mariappan, R. Anish, S. Suresh (2019), Experimental investigation on melting and solidification behaviour of erythritol in a vertical double spiral coil thermal energy storage system, Sustainable Cities and Society.
2. Arun, B., & Mariappan, V. (2018). Experimental study of an ultrasonic regenerative evaporative cooler for a desiccant cooling system. Building Services Engineering Research and Technology,
3. Vairavan Mariappan, Andi Balasubramanian, Jayaraman Venkatesan, Sivan Suresh,(2018) Experimental analysis of triple fluid vapour absorption refrigeration system driven by electrical energy and engine waste heat,Serbia.
4. Mariappan, V., M. Udayakumar and S. M. F. Anwar (2014) Thermoeconomic analysis of R134a-DMAC vapour absorption refrigeration system. Int. J. Appl. Mech. and Mater. 592-594, 1837-1841.
5. Kathiravan, A., E. Karthikeyan, V.Mariappan and C.T. Muthiah (2014) Thermodynamic analysis of heat and mass transfer system enhancement for R134a-DMAC/CNT vapour absorption refrigeration Int. J. Appl. Mech. and Mater. 592-594.

6. Mariappan, V., R. L. Shrestha M., Udayakumar and S. Suresh (2012) Thermodynamic analysis of R134a – DMAC Vapor Absorption Refrigeration (VAR) system. Int. J. Comput. Eng. Res., 2, 086-096.
7. Mariappan, V., R. B. Anand and M. Udayakumar (2010) A simplified design procedure of R134a-DMAC plate type bubble absorber for vapour absorption refrigeration system. IEEE Eplere, 1, 81-87.
8. Mariappan, V (2005) 'Improvement of refrigeration/ air-conditioning performance with mechanical sub cooling', BIHER Journal of Mechanical Engineering, 112-119.
9. Improvement of Refrigeration/ Air-Conditioning Performance with Mechanical Sub Cooling - Biher Journal of Mechanical Engineering - 2005.
10. Parthiban. S, V. Mariappan. Arun and B. Saravankumar, Thermodynamic performance comparison of R134a based vapour absorption refrigeration systems, EMN meeting on Microfluidics and Nanofluidics, April 05-08, 2016, Dubai, UAE.
11. Mariappan, V., M. Udayakumar, Shaligram Tiwari and M. P. Maiya (2013) Heat and mass transfer characteristics of bubble absorption in generator-absorber heat exchange (GAX) system for ammonia-water pair. 22nd national and 11th international ISHMT-ASME Conference, IIT Kharagpur, India, December 28-31, 2013.
12. V. Mariappan, M. Udayakumar, S. Suresh, R. B. Anand and Kulkarni shrikant chandrakant, Thermodynamic analysis of R134a – DMAC/ Al₂O₃ Vapor Absorption Refrigeration (VAR) system, International Conference on Mechanics and Fluid Engineering (ICMFE-2013), Bangkok, Thailand, June 29-30, 2013.

13. Mariappan, V., M. Udayakumar, S. Suresh, R. B. Anand and K.P. Shafeeq, Experimental investigations on thermo physical properties of Al_2O_3 /DMAC nanofluid, abstract accepted to the Tech Connect World, June 18-21, 2012, Santa Clara, California, U.S.A.
14. Mariappan, V., M. Udayakumar, S. Suresh and P. Selvakumar, Synthesis and characterization of CuO and CuO/water nanofluid for heat transfer applications, International Conference on Mechatronics and Materials Processing (ICMMP2011), Guangzhou University, China 18-20 November 2011.
15. Mariappan, V., M. Udayakumar, Shaligram Tiwari and M. P. Maiya (2009) Analysis on water ammonia GAX vapour absorption Refrigeration system. National Conference on Refrigeration and Air Conditioning, Indian Institute of Technology Madras, Chennai, 08-10 January 2009.
16. Mariappan, V (2005) Performance and emission characteristics of pongamia oil as an alternative fuel for diesel engine, INCMER, Bharath Institute of Higher Education and Research, Chennai-73, February 2005.
17. Residual Life Assessment and Strategies to Improve the Efficiency of the Power Plant - AICAME - August 2004 - Srivenkateswara University, Tirupathi.
18. Performance and Emission characteristics of Pongamia Oil as an Alternative Fuel for Diesel Engine - NCMER '05 - February 2005 - Bharath Institute of Higher Education and Research, Chennai-73.