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Publications:

1. M Mohanraj, JDAP Abraham, "Environment friendly refrigerant options for automobile air conditioners: a review", *Journal of Thermal Analysis and Calorimetry*, 1-26, 2020.
2. D Ramasamy, M Mohanraj, "Optimization of Performance of Coarse Aggregate-Assisted Single-Slope Solar Still via Taguchi Approach", *Journal of Renewable Energy and Environment*, 2020.
3. T Ramkumar, M Selvakumar, M Mohanraj, P Chandramohan, P Narayanasamy, "Microstructure and Corrosion Behavior of ZnO-Mg Coating on AISI 4140 Steel Fabricated by Spray Coating", *Journal of Materials Engineering and Performance* 29 (9), 5796-5806, 2020.
4. S Suresh, M Mohanraj, "Thermal analysis and energy systems", *Journal of Thermal Analysis and Calorimetry* 141 (6), 2165-2167, 2020.
5. AA Ammar, K Sopian, M Mohanraj, "Photovoltaic thermal collector assisted heat pumps using environment-friendly working fluids", *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 2020.
6. C Kannan, M Mohanraj, P Sathyabalan, "Experimental investigations on jet impingement solar air collectors using pin-fin absorber", *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 2020.
7. K Loganathan, K Mohana, M Mohanraj, P Sakthivel, S Rajan, "Impact of third-grade nanofluid flow across a convective surface in the presence of inclined Lorentz force: an approach to entropy optimization", *JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY*, 2020.
8. Mani Selvakumar, Thulasiram Ramkumar, Murugesan Mohanraj, Palanisamy Chandramohan, Pandiyarajan Narayanasamy, "Experimental investigations of reciprocating wear behavior of metal matrix (Ti/TiB) composites", *Archives of Civil and Mechanical Engineering* 20 (1), 1-9, 2020.
9. KR Arun, G Kunal, M Srinivas, CSS Kumar, M Mohanraj, S Jayaraj, "Drying of untreated Musa nendra and Momordica charantia in a forced convection solar cabinet dryer with thermal storage", *Energy* 192, 116697, 2020.
10. R Dhivagar, M Mohanraj, K Hidouri, M Midun, "CFD modeling of a gravel coarse aggregate sensible heat storage assisted single slope solar still", *Desalination and Water Treatment*, 2020.
11. P Narayanasamy, M Selvakumar, T Ramkumar, M Mohanraj, GP Pillai, "Characterization of mechanical, electrical and thermal properties of Ag nanoparticle-reinforced Al6061 alloy", *Journal of Thermal Analysis and Calorimetry*, 2020.
12. A James, M Mohanraj, M Srinivas, S Jayaraj, "Thermal analysis of heat pump systems using photovoltaic-thermal collectors: a review", *Journal of Thermal Analysis and Calorimetry*, 2020.
13. YeYerdes, Z Abdulin, A Aliulyac, Y Belyayeva, M Mohanraj, A Kaltayev, "Numerical simulation on solar collector and cascade heat pump combi water heating systems in Kazakhstan climates", *Renewable Energy* 145 (1), 1222-1234, 2020.
14. GSK Ramkumar Thulasiram, Selvakumar Mani, Mohanraj Murugesan Chandrasekar Palanisamy "Effect of TiB Addition on Corrosion Behavior of Titanium Composites under Neutral Chloride Solution", *Journal Transactions of the Indian Ceramic Society*, 2019.

15. S Sivakumar, K Siva, M Mohanraj, "Experimental thermodynamic analysis of a forced convection solar air heater using absorber plate with pin-fins", *Journal of Thermal Analysis and Calorimetry* 136 (1), 39–47, 2019.
16. L Paradeshi, M Mohanraj, M Srinivas, S Jayaraj, "Correction to: Exergy analysis of direct-expansion solar-assisted heat pumps working with R22 and R433A", *Journal of Thermal Analysis and Calorimetry* 134 (3), 2239-2239, 2018.
17. C Gopal, M Mohanraj, P Chandramohan, M Sakthivel, B Shepherd, "Modeling of a solar photovoltaic water pumping system under the influence of panel cooling", *Therm Sci* 21 (2), S399-410, 2017.
18. G Padmanaban, PK Palani, M Mohanraj, "PERFORMANCE OF A DESICCANT ASSISTED PACKED BED PASSIVE SOLAR DRYER FOR COPRA PROCESSING", *THERMAL SCIENCE YEAR 21* (Supplement 2), S419 - S426, 2017.
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20. M Mohanraj, N Gunasekar, V Velmurugan," Comparison of energy performance of heat pumps using a photovoltaic–thermal evaporator with circular and triangular tube configurations", *Building Simulation* 9 (1), 27-41, 2016.