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- ❖ CFD analysis of effects of baffle cut on shell side heat exchanger performance with inclined baffle IX International Conference on Computational Heat and Mass Transfer
- ❖ Using Computational Fluid Dynamics for optimizing various configuration of tray driers THERMACOMP2018, IISc, Bangalore
- ❖ CFD and experimental analysis of phase change material behaviour encapsulated in internally finned spherical capsule EDP Sciences
- ❖ Modified “K”-type multilevel inverter topology with reduced switches, DC sources, and power loss International Transactions on Electrical Energy Systems, 1-19
- ❖ Experimental Investigations of Thin-layer Drying of Leaves in a Heat-Pump Assisted Tray-type Batch Drying Chamber Journal of Mechanical Engineering 66 (4), 254-265
- ❖ Experimental Evaluation of PVA as Novel Humidifier Material for Humidification-Dehumidification Applications Journal of Testing and Evaluation 49 (4)
- ❖ Heat transfer studies on solar still assisted with and without latent heat storage material Desalination and water treatment 140,
- ❖ Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater Desalination 484, 1-13
- ❖ CFD studies on different configurations of drying chamber for thin-layer drying of leaves Energy Sources, Part A: Recovery, Utilization, and Environmental Effects
- ❖ Performance evaluation of solar box cooker assisted with latent heat energy storage system for cooking application IOP Conference Series: Earth and Environmental Science 67 (doi:10.1088/175)
- ❖ Study of effect of Al and Cu microparticles dispersed in D-Mannitol PCM for effective solar thermal energy storage Journal of Thermal Analysis and Calorimetry, 1-10

- ❖ Misfire detection in a multi-cylinder Diesel engine: A Machine Learning Approach Journal of Engineering Science and Technology 11 (2), 278 – 295
- ❖ Effect of Fin Orientations in a Spherically Encapsulated Phase Change Materials for Effective Heat Transfer Enhancement CHEMICAL ENGINEERING TRANSACTIONS 62, 277-282
- ❖ Numerical Analysis of Baffle Cut on Shell Side Heat Exchanger Performance with Inclined Baffles Heat Transfer Engineering 39 (13-14), 1156-1165
- ❖ Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system Solar Energy 158, 837-844
- ❖ CFD analysis of flow and geometric parameter for a double walled solar cooking unit Applied Mathematical Modelling 39 (1), 137-146
- ❖ Experimental and numerical investigation of solar flat plate cooking unit for domestic applications Energy 157, 436-447
- ❖ Investigation on phase change behavior of paraffin phase change material in a spherical capsule for solar thermal storage units Heat Transfer Engineering 39 (9), 775-783
- ❖ Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit Desalination 467, 1-11
- ❖ Augmenting the productivity of solar still using multiple PCMs as heat energy storage Journal of Energy Storage 26, 1-11
- ❖ Effects of the properties and the structural configurations of fatty acid methyl esters on the properties of biodiesel fuel: a review Proceedings of the Institution of Mechanical Engineers, Part D: Journal of
- ❖ Technological advancements in solar energy driven humidification-dehumidification desalination systems - A review Journal of Cleaner Production 207, 826-845
- ❖ Performance assessment of a solar domestic cooking unit integrated with thermal energy storage system Journal of Energy Storage 6, 70-79

- ❖ Review of leaf drying: Mechanism and influencing parameters, drying methods, nutrient preservation, and mathematical models Renewable and Sustainable Energy Reviews 90, 536-556
- ❖ Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors
- ❖ Renewable and Sustainable Energy Reviews 77, 1363-1374
- ❖ Effect of dispersion of various nanoadditives on the performance and emission characteristics of a CI engine fuelled with diesel, biodiesel and blends A review Renewable and Sustainable Energy Reviews 49, 563-573