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| SERIAL NUMBER | JOURNAL PAPER PUBLISHED | YEAR |
|------------------|--|------|
| 1 | Performance augmentation of solar photovoltaic panel through PCM integrated natural water circulation cooling technique | 2020 |
| 2 | Numerical studies on the thermal regimes of the horizontal tube falling film evaporation under varying feeder height | 2020 |
| 3 | The contribution of dry indoor built environment on the spread of Coronavirus: Data from various Indian states | 2020 |
| 4 | Enthalpy based mathematical modelling for thermal energy storage filled with paraffin encapsulated balls as storage material | 2020 |
| 5 | CFD studies on different configurations of drying chamber for thin-layer drying of leaves | 2020 |
| 6 | Review on the electrical conductivity of nanofluids: Recent developments | 2020 |
| 7 | Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater | 2020 |
| 8 | Experimental analysis and comparison of flat plate solar air heater with and without integrated sensible heat storage | 2020 |
| 9 | Experimental Investigations of Thin-layer Drying of Leaves in a Heat-Pump Assisted Tray-type Batch Drying Chamber. | 2020 |
| 10 | Effect of aspect ratio and dispersed PCM balls on the charging performance of a latent heat thermal storage unit for solar thermal applications | 2020 |
| 11 | Experimental Evaluation of PVA as Novel Humidifier Material for Humidification-Dehumidification Applications | 2020 |
| 12 | Feasibility study on the year-round operation of PCM based free cooling systems in tropical climatic conditions | 2020 |
| 13 | Unlocking the Potential of Traditional Native Medicines-A Perspective to Manage the COVID-19 Pandemic | 2020 |
| 14 | Effect of phase change material integration in clay hollow brick composite in building envelope for thermal management of energy efficient buildings | 2020 |

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| 15 | Thermophysical characterization and comparison of PCMs using DSC and T-History experimental setup | 2019 |
| 16 | Augmenting the productivity of solar still using multiple PCMs as heat energy storage | 2019 |
| 17 | Effect of using low-cost thermal insulation material in a solar air heating system with a shot blasted V-corrugated absorber plate | 2019 |
| 18 | Numerical Investigation on the Effect of Tube Geometry and Feeder Height on the Heat Transfer Performance of Horizontal Tube FallingFilm Evaporation | 2019 |
| 19 | Sustainable cooling technologies for building sector | 2019 |
| 20 | Comparison of a real-time building with brick and exfoliated vermiculite using OpenStudio modeling for Indian climatic zones | 2019 |
| 21 | Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit | 2019 |
| 22 | Comparison of different mixing phenomena in anaerobic digestion using food waste and sewage treatment plant for green biofuel through simulations of velocity contours | 2019 |
| 23 | Heat transfer and pressure drop performance of solar glycol/activated carbon based nanofluids in shot peened double pipe heat exchanger | 2019 |
| 24 | Experimental study on thermal properties and electrical conductivity of stabilized H ₂ O-solar glycol mixture based multi-walled carbon nanotube nanofluids: developing a new ... | 2019 |
| 25 | Thermodynamic analysis on compressed air energy storage augmenting power/polygeneration for roundtrip efficiency enhancement | 2019 |
| 26 | A 50 year review of basic and applied research in compound parabolic concentrating solar thermal collector for domestic and industrial applications | 2019 |
| 27 | Effect of shot peening on enhancing the heat transfer performance of a tubular heat exchanger | 2019 |
| 28 | Experimental studies on solidification and subcooling characteristics of water-based phase change material (PCM) in a spherical encapsulation for cool thermal energy storage ... | 2019 |
| 29 | Experimental investigation on heat transfer and pressure drop of MWCNT-Solar glycol based nanofluids in shot peened double pipe heat exchanger | 2019 |
| 30 | A review of efficient high productivity solar stills | 2019 |
| 31 | Mixing strategies of high solids anaerobic co-digestion using food waste with sewage sludge for enhanced biogas production | 2019 |
| 32 | Effect of nano-coated CuO absorbers with PVA sponges in solar water desalting system | 2019 |

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| 33 | Heat transfer studies on solar still assisted with and without latent heat storage material | 2019 |
| 34 | Influence of PCM thermal conductivity and HTF velocity during solidification of PCM through the free cooling concept–A parametric study | 2019 |
| 35 | Characteristics investigation on thermophysical properties of synthesized activated carbon nanoparticles dispersed in solar glycol | 2019 |
| 36 | Technological advancements in solar energy driven humidification-dehumidification desalination systems-A review | 2019 |
| 37 | Natural-convection heat transfer enhancement of aluminum heat sink using nanocoating by electron beam method | 2019 |
| 38 | Experimental investigation on packed bed cool storage system for supply-demand management in building air conditioning system suitable for micro thermal grid | 2019 |
| 39 | Estimation and validation of interfacial heat transfer coefficient during solidification of spherical shaped aluminum alloy (AL 6061) casting using inverse control volume technique | 2018 |
| 40 | Thermal and electrical conductivity enhancement of solar glycol-water mixture containing MWCNTs | 2018 |
| 41 | Experimental investigation on small capacity compressed air energy storage towards efficient utilization of renewable sources | 2018 |
| 42 | Experimental investigation on heat transfer augmentation of solar air heater using shot blasted V-corrugated absorber plate | 2018 |
| 43 | Heat carrier nanofluids in solar still–A review | 2018 |
| 44 | Evaluation of thermal properties of cement-exfoliated vermiculite blocks as energy efficient building envelope material | 2018 |
| 45 | Productivity enhancement of solar still by using porous absorber with bubble-wrap insulation | 2018 |
| 46 | Experimental and numerical investigation of solar flat plate cooking unit for domestic applications | 2018 |
| 47 | Combustion, performance and emission characteristics of an unmodified diesel engine fueled with Manilkara Zapota Methyl Ester and its diesel blends | 2018 |
| 48 | Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings | 2018 |
| 49 | Harnessing free energy from nature for efficient operation of compressed air energy storage system and unlocking the potential of renewable power generation | 2018 |
| 50 | Review of leaf drying: Mechanism and influencing parameters, drying methods, nutrient preservation, and mathematical models | 2018 |
| 51 | Transient analysis of steam accumulator integrated with solar based MED-TVC system | 2018 |

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| 52 | Investigation on phase change behavior of paraffin phase change material in a spherical capsule for solar thermal storage units | 2018 |
| 53 | Interfacial Heat Transfer Coefficient Estimation During Solidification of Rectangular Aluminum Alloy Casting Using Two Different Inverse Methods | 2018 |
| 54 | Effect of swirl flow injection on latent heat dispersion of spherical PCM capsules with MWCNT fillers. | 2018 |
| 55 | Thermal energy storage behaviour of nanoparticle enhanced PCM during freezing and melting | 2018 |
| 56 | Enhancement in free cooling potential through PCM based storage system integrated with direct evaporative cooling (DEC) unit | 2018 |
| 57 | A review of the role of passive techniques on heat transfer enhancement of horizontal tube falling film and flooded evaporators | 2018 |
| 58 | Investigation of Latent Heat Thermal Energy Storage system using PCMs with swirl flow injection by Response Surface Methodology | 2018 |
| 59 | Effect of fin orientations in a spherically encapsulated phase change materials for effective heat transfer enhancement | 2017 |
| 60 | Experimental analysis of solar photovoltaic unit integrated with free cool thermal energy storage system | 2017 |
| 61 | Effect of direct evaporative cooling during the charging process of phase change material based storage system for building free cooling application—A real time experimental ... | 2017 |
| 62 | Passive cooling potential in buildings under various climatic conditions in India | 2017 |
| 63 | Renewable energy based smart microgrids—A pathway to green port development | 2017 |
| 64 | Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors | 2017 |
| 65 | Performance analysis of a small capacity compressed air energy storage system for renewable energy generation using TRNSYS | 2017 |
| 66 | Effects of concentrator type and encapsulated phase change material on the performance of different solar stills: an experimental approach | 2017 |
| 67 | Investigation on phase change material-based flat plate heat exchanger modules for free cooling applications in energy-efficient buildings | 2017 |
| 68 | Sustainability and environmental management: Emissions accounting for ports | 2017 |
| 69 | Stability, viscosity, thermal conductivity, and electrical conductivity enhancement of multi-walled carbon nanotube nanofluid using gum arabic | 2017 |
| 70 | GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities—a case of the Port of Chennai | 2017 |

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| 71 | Sustainable Energy Resources based Smart Microgrid towards Green Port Development-A Pathway for Ecofriendly Society | 2017 |
| 72 | Zigbee Based Energy Efficient LED Lighting System | 2017 |
| 73 | Experimental investigation of the thermal performance of a heat pipe under various modes of condenser cooling | 2017 |
| 74 | Role of biodiesel with nanoadditives in port owned trucks and other vehicles for emission reduction | 2017 |
| 75 | Melting/solidification characteristics of paraffin based nanocomposite for thermal energy storage applications | 2017 |
| 76 | Fanning friction (f) and colburn (j) factors of a louvered fin and flat tube compact heat exchanger | 2017 |
| 77 | Experimental study on density, thermal conductivity, specific heat, and viscosity of water-ethylene glycol mixture dispersed with carbon nanotubes | 2017 |
| 78 | Role of PCM addition on stratification behaviour in a thermal storage tank–An experimental study | 2016 |
| 79 | Influence of crescent shaped absorber in water desalting system | 2016 |
| 80 | Experimental investigation on thermophysical properties of solar glycol dispersed with multi-walled carbon nanotubes | 2016 |
| 81 | Effect of parabolic solar energy collectors for water distillation | 2016 |
| 82 | Experimental energy and exergy analysis of a flat plate solar air heater with a new design of integrated sensible heat storage | 2016 |
| 83 | Experimental investigation on the phase change material-based modular heat exchanger for thermal management of a building | 2016 |
| 84 | Development of superhydrophobic surface through facile dip coating method | 2016 |
| 85 | Solidification characteristics of water based graphene nanofluid PCM in a spherical capsule for cool thermal energy storage applications | 2016 |
| 86 | Fuzzy logic controller based bridgeless isolated interleaved zeta converter for LED lamp driver application | 2016 |
| 87 | Theoretical analysis of inclined solar still with baffle plates for improving the fresh water yield | 2016 |
| 88 | Performance assessment of a solar domestic cooking unit integrated with thermal energy storage system | 2016 |
| 89 | Productivity enhancements of compound parabolic concentrator tubular solar stills | 2016 |
| 90 | Effect of heat removal on tubular solar desalting system | 2016 |
| 91 | Sensible heat storage for solar heating and cooling systems | 2016 |
| 92 | A review on compressed air energy storage – A pathway for smart grid and polygeneration | 2016 |

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| 93 | Effects of raw material composition of tung (<i>Vernicia Montana</i>) and jatropha (<i>Jatropha Curcas L</i>) oil methyl esters on their fuel properties: a comparative study in fuel quality ... | 2016 |
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