# Suresh Sivan

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 162 papers | 6,072 citations | 41 h-index | 74 g-index |
| 170 ext. papers | 7,205 ext. citations | 4 avg, IF | 6.56 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 162 | Amorphous carbon based nanofluids for direct radiative absorption in solar thermal concentrators Experimental and computational study. *Renewable Energy*, **2022**, 183, 651-661 | 8.1 | 1 |
| 161 | Identifying Optimal Nanofluid Synthesis Conditions for Applications in Solar Thermal Concentrators. *Innovative Renewable Energy*, **2022**, 123-127 | 0.3 | |
| 160 | First Law Analysis on PCM Based Latent Heat Thermal Energy Storage System **2021**, | | |
| 159 | Effect of vacuum insulation panel on active thermal management for electronics system exposed to thermal radiation. *Thermal Science and Engineering Progress*, **2021**, 26, 101117 | 3.6 | 1 |
| 158 | Life cycle assessment of nanoalloy enhanced layered perovskite solid-solid phase change material till 10000 thermal cycles for energy storage applications. *Journal of Energy Storage*, **2021**, 35, 102220 | 7.8 | 9 |
| 157 | Improvement in thermal hydraulic performance by using continuous V and W-Shaped rib turbulators in gas turbine blade cooling application. *Case Studies in Thermal Engineering*, **2021**, 24, 100857 | 5.6 | 8 |
| 156 | Preparation and thermal properties of encapsulated 1-Decanol for low- temperature heat transfer fluid application. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 614, 126167 | 5.1 | 1 |
| 155 | Influence of Narrow Rectangular Channel ( AR = 1 : 4 ) on Heat Transfer and Friction for V- and W-Shaped Ribs in Turbine Blade Applications. *International Journal of Photoenergy*, **2021**, 2021, 1-13 | 2.1 | 1 |
| 154 | Experimental Investigation on CNT-Enhanced Neopentyl glycol Solid Solid PCM for Applications of Thermal Control in Spatial Remote Sensing Instruments **2021**, 49, 2215-2226 | | 0 |
| 153 | Facile approach to fend off the supercooling phenomenon of water in a spherical enclosure for energy-efficient and sustainable cold thermal energy storage system. *Sustainable Energy Technologies and Assessments*, **2021**, 45, 101076 | 4.7 | 2 |
| 152 | Thermal property, charging and discharging characteristics study on tetra-n-butyl ammonium bromide semi-clathrate hydrates for air-conditioning cold storage and secondary refrigerant applications. *Journal of Chemical Thermodynamics*, **2021**, 153, 106275 | 2.9 | 3 |
| 151 | Preparation, characterisation and energy storage performance study on 1-Decanol-Expanded graphite composite PCM for air-conditioning cold storage system. *International Journal of Refrigeration*, **2021**, 123, 91-101 | 3.8 | 14 |
| 150 | Effect of adding alumina nanoparticle in D-Mannitol for reversible solar thermoelectric power generation: An experimental study. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110781 | 6.4 | 6 |
| 149 | Experimental investigation on the energy storage/discharge performance of xylitol in a compact spiral coil heat exchanger. *International Journal of Thermal Sciences*, **2021**, 159, 106633 | 4.1 | 8 |
| 148 | Thermal management of polymer electrolyte membrane fuel cell with stearyl alcohol and fans combined. *Journal of Energy Storage*, **2021**, 41, 102847 | 7.8 | 3 |
| 147 | Experimental investigation on nanoalloy enhanced layered perovskite PCM tamped in a tapered triangular heat sink for satellite avionics thermal management. *International Journal of Thermal Sciences*, **2021**, 167, 107007 | 4.1 | 10 |
| 146 | Experimental Investigation on Enhanced Energy Storage Characteristics of Spherically Encapsulated 1-Decanol/Expanded Graphite Composite for Cold Storage System. *Journal of Energy Storage*, **2021**, 41, 102941 | 7.8 | 3 |

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| 145 | Wettability Control of Copper Surface Using Picosecond Laser for Enhancing Condensation Heat Transfer. *Materials Science Forum*, **2020**, 978, 505-513 | 0.4 | 1 |
| 144 | Experimental investigation on PEM fuel cell using serpentine with tapered flow channels. *International Journal of Hydrogen Energy*, **2020**, 45, 15642-15649 | 6.7 | 17 |
| 143 | Low melt alloy blended polyalcohol as solid-solid phase change material for energy storage: An experimental study. *Applied Thermal Engineering*, **2020**, 175, 115362 | 5.8 | 8 |
| 142 | Influence of fin configurations in the heat transfer effectiveness of Solid solid PCM based thermal control module for satellite avionics: Numerical simulations. *Journal of Energy Storage*, **2020**, 29, 101332 | 7.8 | 18 |
| 141 | Investigation to Improve the Pool Boiling Heat Transfer Characteristics Using Laser-Textured Copper-Grooved Surfaces. *International Journal of Photoenergy*, **2020**, 2020, 1-8 | 2.1 | 9 |
| 140 | Optical and Thermal Properties of Therminol 55-TiO2 Nanofluids for Solar Energy Storage. *International Journal of Photoenergy*, **2020**, 2020, 1-9 | 2.1 | 5 |
| 139 | A review on the role of laser textured surfaces on boiling heat transfer. *Applied Thermal Engineering*, **2020**, 174, 115274 | 5.8 | 10 |
| 138 | Binary Mixture of Solid-Solid Phase Change Material: Synthesis, Characterization and Experimental Study. *Materials Science Forum*, **2020**, 978, 407-420 | 0.4 | 3 |
| 137 | DSC Analysis of Nano-enhanced Monobasic and Binary Solid-Solid Phase Change Materials for Thermal Storage. *Lecture Notes in Mechanical Engineering*, **2020**, 47-57 | 0.4 | |
| 136 | Liquid Metal Gallium in Metal Inserts for Solar Thermal Energy Storage: A Novel Heat Transfer Enhancement Technique. *Solar Energy Materials and Solar Cells*, **2020**, 208, 110365 | 6.4 | 7 |
| 135 | Microencapsulation of nitrate salt for solar thermal energy storage- synthesis, characterisation and heat transfer study. *Solar Energy Materials and Solar Cells*, **2020**, 206, 110308 | 6.4 | 9 |
| 134 | An experimental investigation on the effect of gravitational orientation on flow boiling performance in different channel sizes ranges from minichannels to microchannels. *Heat and Mass Transfer*, **2020**, 56, 1391-1420 | 2.2 | 1 |
| 133 | Enhancing the Performance of the Standalone Rooftop SPV Module during Peak Solar Irradiance and Ambient Temperature by the Active Cooling of the Rear Surface with Spraying Water and the Front Surface with Overflowing Water. *International Journal of Photoenergy*, **2020**, 2020, 1-11 | 2.1 | |
| 132 | Thermal performance of nano-enriched form-stable PCM implanted in a pin finned wall-less heat sink for thermal management application. *Energy Conversion and Management*, **2020**, 226, 113466 | 10.6 | 14 |
| 131 | Numerical analysis on flow and performance characteristics of a small-scale solar updraft tower (SUT) with horizontal absorber plate and collector glass. *Journal of Thermal Analysis and Calorimetry* , **2020**, 141, 2463-2474 | 4.1 | 5 |
| 130 | Thermal analysis and energy systems. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 2165-2167 | 4.1 | |
| 129 | Recent developments in thermo-physical property enhancement and applications of solid solid phase change materials. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 3023-3049 | 4.1 | 28 |
| 128 | Effect of mist concentration on the cooling effectiveness of a diffused hole mist cooling system. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 2231-2238 | 4.1 | 4 |

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| 127 | Experimental thermal degradation analysis of pentaerythritol with alumina nano additives for thermal energy storage application. *Journal of Energy Storage*, **2019**, 22, 8-16 | 7.8 | 6 |
| 126 | Modified active solar distillation system employing directly absorbing Therminol 55/Al2O3 nano heat transfer fluid and Fresnel lens concentrator. *Desalination*, **2019**, 457, 32-38 | 10.3 | 32 |
| 125 | Wetting transition in laser-fabricated hierarchical surface structures and its impact on condensation heat transfer characteristics. *International Journal of Heat and Mass Transfer*, **2019**, 140, 886-896 | 4.9 | 12 |
| 124 | Evaluation of solar thermal system configurations for thermoelectric generator applications: A critical review. *Solar Energy*, **2019**, 188, 111-142 | 6.8 | 50 |
| 123 | Photothermal Energy Conversion Enhancement Studies Using Low Concentration Nanofluids. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2019**, 141, | 2.3 | 7 |
| 122 | Manganese-based layered perovskite solid/solid phase change material: Synthesis, characterization and thermal stability study. *Mechanics of Materials*, **2019**, 135, 88-97 | 3.3 | 11 |
| 121 | Heat transfer performance of graphene nano-platelets laden micro-encapsulated PCM with polymer shell for thermal energy storage based heat sink. *Applied Thermal Engineering*, **2019**, 156, 237-249 | 5.8 | 52 |
| 120 | Thermal performance of micro-encapsulated PCM with LMA thermal percolation in TES based heat sink application. *Energy Conversion and Management*, **2019**, 185, 75-86 | 10.6 | 34 |
| 119 | Evaluation of thermoelectric power generated through waste heat recovery from long ducts and different thermal system configurations. *Energy*, **2019**, 185, 477-491 | 7.9 | 8 |
| 118 | Effect of nano-gallium capsules on thermal energy storage characteristics of manganese organometallic SS-PCM. *Thermochimica Acta*, **2019**, 680, 178341 | 2.9 | 17 |
| 117 | Energy storage performance of pentaerythritol blended with indium in exhaust heat recovery application. *Thermochimica Acta*, **2019**, 680, 178343 | 2.9 | 7 |
| 116 | Experimental charging and discharging performance of alumina enhanced pentaerythritol using a shell and tube TES system. *Sustainable Cities and Society*, **2019**, 51, 101767 | 10.1 | 8 |
| 115 | Experimental analysis of triple fluid vapour absorption refrigeration system driven by electrical energy and engine waste heat. *Thermal Science*, **2019**, 23, 2995-3001 | 1.2 | 8 |
| 114 | Experimental investigations of vanadium and nickel distribution while firing petcoke in a circulating fluidised bed test facility. *International Journal of Oil, Gas and Coal Technology*, **2019**, 20, 81 | 0.6 | 1 |
| 113 | A novel indirect solar dryer with inlet fans powered by solar PV panels: Drying kinetics of Capsicum Annum and Abelmoschus esculentus with dryer performance. *Solar Energy*, **2019**, 194, 871-885 | 6.8 | 45 |
| 112 | Experimental investigation of solar reversible power generation in Thermoelectric Generator (TEG) using thermal energy storage. *Energy for Sustainable Development*, **2019**, 48, 107-114 | 5.4 | 33 |
| 111 | Comparative study of heat transfer and friction characteristics of water-based Alumina/copper and Alumina/CNT hybrid nanofluids in laminar flow through pipes. *Journal of Thermal Analysis and Calorimetry*, **2019**, 136, 243-253 | 4.1 | 12 |
| 110 | Convective heat transfer studies on helically corrugated tubes with spiraled rod inserts using TiO2/DI water nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2019**, 137, 849-864 | 4.1 | 15 |

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| 109 | Investigating the combined effect of square microgrooves and CNT coating on condensation heat transfer. *Applied Surface Science*, **2019**, 469, 50-60 | 6.7 | 9 |
| 108 | Theoretical and experimental evaluation of thermal interface materials and other influencing parameters for thermoelectric generator system. *Renewable Energy*, **2019**, 134, 25-43 | 8.1 | 21 |
| 107 | Effects of Al2O3, CuO and TiO2 nanoparticles son thermal, phase transition and crystallization properties of solid-solid phase change material,. *Mechanics of Materials*, **2019**, 128, 64-88 | 3.3 | 21 |
| 106 | Experimental investigation on melting and solidification behaviour of erythritol in a vertical double spiral coil thermal energy storage system. *Sustainable Cities and Society*, **2019**, 44, 253-264 | 10.1 | 23 |
| 105 | Experimental investigation of the effect of heat sink orientation on subcooled flow boiling performance in a rectangular microgap channel. *International Journal of Heat and Mass Transfer*, **2018**, 120, 1341-1357 | 4.9 | 14 |
| 104 | Experimental study on the thermal storage performance and non-isothermal crystallization kinetics of pentaerythritol blended with low melting metal. *Thermochimica Acta*, **2018**, 662, 75-89 | 2.9 | 13 |
| 103 | Evaluating the scale effects of metal nanowire coatings on the thermal performance of miniature loop heat pipe. *Applied Thermal Engineering*, **2018**, 133, 727-738 | 5.8 | 11 |
| 102 | Experimental heat transfer analysis of macro packed neopentylglycol with CuO nano additives for building cooling applications. *Journal of Energy Storage*, **2018**, 17, 1-10 | 7.8 | 25 |
| 101 | Liquid metal gallium laden organic phase change material for energy storage: An experimental study. *International Journal of Hydrogen Energy*, **2018**, 43, 2469-2483 | 6.7 | 12 |
| 100 | Issues, comparisons, turbine selections and applications An overview in organic Rankine cycle. *Energy Conversion and Management*, **2018**, 166, 474-488 | 10.6 | 71 |
| 99 | Study on performance enhancement factors in turbulent flow of CNT/water nanofluid through a tube fitted with helical screw louvered rod inserts. *Chemical Engineering and Processing: Process Intensification*, **2018**, 127, 103-110 | 3.7 | 15 |
| 98 | Elucidating the mechanisms behind the boiling heat transfer enhancement using nano-structured surface coatings. *Applied Thermal Engineering*, **2018**, 137, 868-891 | 5.8 | 25 |
| 97 | Experimental study on the thermal performance of nano enhanced pentaerythritol in IC engine exhaust heat recovery application. *Applied Thermal Engineering*, **2018**, 137, 461-474 | 5.8 | 22 |
| 96 | An experimental investigation on heat transfer enhancement in the laminar flow of water/TiO2 nanofluid through a tube heat exchanger fitted with modified butterfly inserts. *Heat and Mass Transfer*, **2018**, 54, 813-829 | 2.2 | 11 |
| 95 | Experimental study on heat transfer performance of neopentyl glycol/CuO composite solid-solid PCM in TES based heat sink **2018**, 21, 1086-1094 | | 23 |
| 94 | Role of inter-nanowire distance in metal nanowires on pool boiling heat transfer characteristics. *Journal of Colloid and Interface Science*, **2018**, 532, 218-230 | 9.3 | 16 |
| 93 | Impact of Thermal Interface Materials for Thermoelectric Generator Systems. *Journal of Electronic Materials*, **2018**, 47, 5763-5772 | 1.9 | 14 |
| 92 | Spatial orientation effects on flow boiling performances in open microchannels heat sink configuration under a wide range of mass fluxes. *Experimental Thermal and Fluid Science*, **2018**, 99, 392-406 | 3 | 8 |

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| 91 | Low melt alloy enhanced solid-liquid phase change organic sugar alcohol for solar thermal energy storage. *Journal of Molecular Liquids*, **2018**, 266, 29-42 | 6 | 5 |
| 90 | Transient Flow Boiling Performance and Critical Heat Flux Evaluation of Al2O3-Water Nanofluid in Parallel Microchannels. *Journal of Nanofluids*, **2018**, 7, 1035-1044 | 2.2 | 3 |
| 89 | Heat transfer and pressure drop studies of TiO2/DI water nanofluids in helically corrugated tubes using spiraled rod inserts. *Heat and Mass Transfer*, **2018**, 54, 1301-1311 | 2.2 | 6 |
| 88 | Study of thermo-physical properties and cycling stability of d -Mannitol-copper oxide nanocomposites as phase change materials. *Journal of Energy Storage*, **2018**, 15, 245-255 | 7.8 | 27 |
| 87 | Multi-walled carbon nanotube laden with D-Mannitol as phase change material: Characterization and experimental investigation. *Advanced Powder Technology*, **2018**, 29, 3183-3191 | 4.6 | 12 |
| 86 | Fabrication, characterisation and heat transfer study on microencapsulation of nano-enhanced phase change material. *Chemical Engineering and Processing: Process Intensification*, **2018**, 133, 12-23 | 3.7 | 25 |
| 85 | Synthesis and Characterization of Nanostructured NiCrFeSiB HVOF Coating. *Transactions of the Indian Institute of Metals*, **2017**, 70, 2555-2561 | 1.2 | |
| 84 | Effect of diameter of metal nanowires on pool boiling heat transfer with FC-72. *Applied Surface Science*, **2017**, 423, 509-520 | 6.7 | 43 |
| 83 | Experimental study on thermal and chemical stability of pentaerythritol blended with low melting alloy as possible PCM for latent heat storage. *Experimental Thermal and Fluid Science*, **2017**, 88, 73-87 | 3 | 42 |
| 82 | Graphene nanoplatelets enhanced myo-inositol for solar thermal energy storage. *Thermal Science and Engineering Progress*, **2017**, 2, 1-7 | 3.6 | 11 |
| 81 | Investigations into nanofluids as direct solar radiation collectors. *Solar Energy*, **2017**, 147, 426-431 | 6.8 | 25 |
| 80 | The effect of heating area orientation on flow boiling performance in microchannels heat sink under subcooled condition. *International Journal of Heat and Mass Transfer*, **2017**, 110, 276-293 | 4.9 | 13 |
| 79 | Energy and economic analysis of Vacuum Insulation Panels (VIPs) used in non-domestic buildings. *Applied Energy*, **2017**, 188, 1-8 | 10.7 | 69 |
| 78 | Pentaerythritol with alumina nano additives for thermal energy storage applications. *Journal of Energy Storage*, **2017**, 13, 359-377 | 7.8 | 27 |
| 77 | Myo-inositol based nano-PCM for solar thermal energy storage. *Applied Thermal Engineering*, **2017**, 110, 564-572 | 5.8 | 63 |
| 76 | An experimental study of heat transfer and pressure drop characteristics of divergent wavy minichannels using nanofluids. *Heat and Mass Transfer*, **2017**, 53, 959-971 | 2.2 | 15 |
| 75 | Optimization and erosion wear response of NiCrSiB/WC□o HVOF coating using Taguchi method. *Ceramics International*, **2016**, 42, 1094-1104 | 5.1 | 53 |
| 74 | Effect of surfactant addition on hydrophilicity of ZnO□Al2O3 composite and enhancement of flow boiling heat transfer. *Experimental Thermal and Fluid Science*, **2016**, 70, 325-334 | 3 | 15 |

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| 73 | Pool boiling heat transfer enhancement using vertically aligned carbon nanotube coatings on a copper substrate. *Applied Thermal Engineering*, **2016**, 99, 61-71 | 5.8 | 74 |
| 72 | Experimental investigation on heat transfer effect of conical strip inserts in a circular tube under laminar flow. *Frontiers in Energy*, **2016**, 10, 136-142 | 2.6 | 27 |
| 71 | Directly absorbing Therminol-Al 2 O 3 nano heat transfer fluid for linear solar concentrating collectors. *Solar Energy*, **2016**, 137, 134-142 | 6.8 | 37 |
| 70 | Erosion wear behaviour of plasma sprayed NiCrSiB/Al2O3 composite coating. *International Journal of Refractory Metals and Hard Materials*, **2015**, 52, 209-218 | 4.1 | 49 |
| 69 | Heat Transfer Study of Water-based Nanofluids Containing Titanium Oxide Nanoparticles. *Materials Today: Proceedings*, **2015**, 2, 3648-3655 | 1.4 | 53 |
| 68 | Flow boiling heat transfer enhancement on copper surface using Fe doped Al2O3□TiO2 composite coatings. *Applied Surface Science*, **2015**, 334, 102-109 | 6.7 | 31 |
| 67 | Performance analysis of cylindrical heat pipe using nanofluids □An experimental study. *International Journal of Multiphase Flow*, **2015**, 72, 188-197 | 3.6 | 59 |
| 66 | Experimental Study of Preparation, Characterisation and Thermal Behaviour of Water-Based Nanofluids Containing Titanium Oxide Nanoparticles. *Applied Mechanics and Materials*, **2015**, 766-767, 348-354 | 0.3 | 22 |
| 65 | An Experimental Investigation of Wavy and Straight Minichannel Heat Sinks Using Water and Nanofluids. *Journal of Thermal Science and Engineering Applications*, **2015**, 7, | 1.9 | 20 |
| 64 | INVESTIGATION OF HEAT TRANSFER CHARACTERISTICS OF MGMNNI/DIW-BASED NANOFLUIDS FOR QUENCHING IN INDUSTRIAL APPLICATIONS. *Journal of Enhanced Heat Transfer*, **2015**, 22, 1-28 | 1.7 | 2 |
| 63 | Review on Nanofluids Theoretical Thermal Conductivity Models. *Engineering Journal*, **2015**, 19, 67-83 | 1.8 | 63 |
| 62 | An experimental investigation on flow boiling heat transfer enhancement using spray pyrolysed alumina porous coatings. *Applied Thermal Engineering*, **2014**, 71, 508-518 | 5.8 | 28 |
| 61 | Performance analysis of an in-pond heat exchanger of a salt gradient solar pond. *Applied Solar Energy (English Translation of Geliotekhnika)*, **2014**, 50, 84-89 | 1.3 | 1 |
| 60 | An experimental study on heat transfer characteristics of paraffin wax in horizontal double pipe heat latent heat storage unit. *Journal of the Taiwan Institute of Chemical Engineers*, **2014**, 45, 1298-1306 | 5.3 | 54 |
| 59 | Heat transfer enhancement and pressure drop analysis in a helically coiled tube using Al2O3 / water nanofluid. *Journal of Mechanical Science and Technology*, **2014**, 28, 1841-1847 | 1.6 | 29 |
| 58 | Heat transfer performance of Al2O3/water nanofluids in a mini channel heat sink. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2368-76 | 1.3 | 6 |
| 57 | Laminar heat transfer and friction factor characteristics of carbon nano tube/water nanofluids. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2400-7 | 1.3 | 2 |
| 56 | Turbulent heat transfer and pressure drop characteristics of dilute water based Al2O3-Cu hybrid nanofluids. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2563-72 | 1.3 | 55 |

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| 55 | An Experimental Study of Forced Convective Fluid Flow in Divergent Minichannels Using Nanofluids. *Applied Mechanics and Materials*, **2014**, 592-594, 1418-1422 | 0.3 | 2 |
| 54 | Experimental studies on effect of bonding the twisted tape with pins to the inner surface of the circular tube. *Thermal Science*, **2014**, 18, 1273-1283 | 1.2 | 2 |
| 53 | Heat Transfer Enhancement Characteristics of Al2O3/Water and CuO/Water Nanofluids in a Tube in Tube Condenser Fitted With an Air Conditioning System An Experimental Comparison. *Journal of Thermal Science and Engineering Applications*, **2014**, 6, | 1.9 | 5 |
| 52 | Thermal performance of ethylene glycol based nanofluids in an electronic heat sink. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2325-33 | 1.3 | 3 |
| 51 | Flow boiling heat transfer enhancement using carbon nanotube coatings. *Applied Thermal Engineering*, **2014**, 65, 166-175 | 5.8 | 45 |
| 50 | Experimental Studies on Wire Coiled Coil Matrix Turbulators with and Without Centre Core Rod. *Arabian Journal for Science and Engineering*, **2013**, 38, 2557-2568 | | 5 |
| 49 | Passive cooling of standalone flat PV module with cotton wick structures. *Energy Conversion and Management*, **2013**, 71, 43-50 | 10.6 | 150 |
| 48 | Investigations of effect of radial flow impeller type swirl generator fitted in an electronic heat sink and Al2O3/water nanofluid on heat transfer enhancement. *Chemical Engineering and Processing: Process Intensification*, **2013**, 72, 103-112 | 3.7 | 10 |
| 47 | Experimental investigation on convective heat transfer and friction factor in a helically coiled tube with Al2O3/water nanofluid. *Journal of Mechanical Science and Technology*, **2013**, 27, 239-245 | 1.6 | 36 |
| 46 | Computational fluid dynamics analysis on heat transfer and friction factor characteristics of a turbulent flow for internally grooved tubes. *Thermal Science*, **2013**, 17, 1125-1137 | 1.2 | 7 |
| 45 | Thermal performance of higher aspect ratio microchannels using TiO2-water nanofluids. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 2842-6 | 1.3 | 3 |
| 44 | Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids A review. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 3917-3938 | 16.2 | 123 |
| 43 | Enhancing performance of a radiator of electronic cooling system using Carbon Nanotube based nanofluids **2012**, | | 1 |
| 42 | Heat Transfer in a Tube Fitted with Vertical and Horizontal Wing-Cut Twisted Tapes. *Experimental Heat Transfer*, **2012**, 25, 30-47 | 2.4 | 24 |
| 41 | Comparison of heat transfer and pressure drop in horizontal and vertical helically coiled heat exchanger with CuO/water based nano fluids. *Experimental Thermal and Fluid Science*, **2012**, 42, 64-70 | 3 | 88 |
| 40 | HEAT TRANSFER ENHANCEMENT IN A HELICALLY COILED TUBE WITH Al2O3/WATER NANOFLUID UNDER LAMINAR FLOW CONDITION. *International Journal of Nanoscience*, **2012**, 11, 1250029 | 0.6 | 4 |
| 39 | Use of ${rm Al}_{2}{rm O}_{3}hbox{--}{rm Cu}$/Water Hybrid Nanofluid in an Electronic Heat Sink. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2012**, 2, 1600-1607 | 1.7 | 91 |
| 38 | Heat transfer characteristics in latent heat storage system using paraffin wax. *Journal of Mechanical Science and Technology*, **2012**, 26, 959-965 | 1.6 | 55 |

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| 37 | Experimental studies on heat transfer and friction factor characteristics of CuO/water nanofluid under laminar flow in a helically dimpled tube. *Heat and Mass Transfer*, **2012**, 48, 683-694 | 2.2 | 32 |
| 36 | Experimental study of enhanced heat transfer by addition of CuO nanoparticle. *Heat and Mass Transfer*, **2012**, 48, 965-978 | 2.2 | 95 |
| 35 | Experimental studies on heat transfer and friction factor characteristics of Al2O3/water nanofluid under turbulent flow with spiraled rod inserts. *Chemical Engineering and Processing: Process Intensification*, **2012**, 53, 24-30 | 3.7 | 53 |
| 34 | Effect of Al2O3Cu/water hybrid nanofluid in heat transfer. *Experimental Thermal and Fluid Science*, **2012**, 38, 54-60 | 3 | 500 |
| 33 | A comparison of thermal characteristics of Al2O3/water and CuO/water nanofluids in transition flow through a straight circular duct fitted with helical screw tape inserts. *Experimental Thermal and Fluid Science*, **2012**, 39, 37-44 | 3 | 59 |
| 32 | Convective performance of CuO/water nanofluid in an electronic heat sink. *Experimental Thermal and Fluid Science*, **2012**, 40, 57-63 | 3 | 131 |
| 31 | Experimental studies on effect of wire coiled coil matrix turbulators with and without bonding on the wall of the test section of concentric tube heat exchanger. *Thermal Science*, **2012**, 16, 1151-1164 | 1.2 | 3 |
| 30 | Thermal characteristics in latent heat energy storage system using paraffin wax. *International Journal of Energy Technology and Policy*, **2012**, 8, 50 | 1 | 1 |
| 29 | Experimental Studies on Heat Transfer and Friction Factor Characteristics of Al2O3/Water Nanofluid in a Circular Pipe Under Transition Flow With Wire Coil Inserts. *Heat Transfer Engineering*, **2011**, 32, 485-496 | 1.7 | 35 |
| 28 | Synthesis of Al2O3Cu/water hybrid nanofluids using two step method and its thermo physical properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 388, 41-48 | 5.1 | 506 |
| 27 | Experiments to Explore the Mechanisms of Heat Transfer in Nanocrystalline Alumina/Water Nanofluid under Laminar and Turbulent Flow Conditions. *Experimental Heat Transfer*, **2011**, 24, 234-256 | 2.4 | 20 |
| 26 | Heat transfer and pressure drop characteristics in a circular tube fitted with and without V-cut twisted tape insert. *International Communications in Heat and Mass Transfer*, **2011**, 38, 329-334 | 5.8 | 156 |
| 25 | Comparative study on thermal performance of helical screw tape inserts in laminar flow using Al2O3/water and CuO/water nanofluids. *Superlattices and Microstructures*, **2011**, 49, 608-622 | 2.8 | 63 |
| 24 | Experimental studies on heat transfer and friction factor characteristics of CuO/water nanofluid under turbulent flow in a helically dimpled tube. *Experimental Thermal and Fluid Science*, **2011**, 35, 542-549 | 3 | 135 |
| 23 | HEAT TRANSFER IN TUBES FITTED WITH TRAPEZOIDAL-CUT AND PLAIN TWISTED TAPE INSERTS. *Chemical Engineering Communications*, **2011**, 198, 886-904 | 2.2 | 30 |
| 22 | Synthesis, Characterisation of Al2O3-Cu Nano Composite Powder and Water Based Nanofluids. *Advanced Materials Research*, **2011**, 328-330, 1560-1567 | 0.5 | 35 |
| 21 | Experimental investigations and theoretical determination of thermal conductivity and viscosity of Al2O3/water nanofluid. *Experimental Thermal and Fluid Science*, **2010**, 34, 210-216 | 3 | 515 |
| 20 | Heat Transfer and Friction Factor Studies in a Circular Tube Fitted with Twisted Tape Consisting of Wire-nails. *Chinese Journal of Chemical Engineering*, **2010**, 18, 1038-1042 | 3.2 | 66 |

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| 19 | Turbulent Heat Transfer and Pressure Drop in Tube Fitted with Square-cut Twisted Tape. *Chinese Journal of Chemical Engineering*, **2010**, 18, 609-617 | 3.2 | 110 |
| 18 | Experimental studies on heat transfer and friction factor characteristics of Al2O3/water nanofluid in a circular pipe under laminar flow with wire coil inserts. *Experimental Thermal and Fluid Science*, **2010**, 34, 122-130 | 3 | 169 |
| 17 | Limits for thermal conductivity of nanofluids. *Thermal Science*, **2010**, 14, 65-71 | 1.2 | 23 |
| 16 | Determination of Heat Transport Mechanism in Aqueous Nanofluids Using Regime Diagram. *Chinese Physics Letters*, **2009**, 26, 124401 | 1.8 | 3 |
| 15 | New analytical models to investigate thermal conductivity of nanofluids. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 533-8 | 1.3 | 33 |
| 14 | Experimental investigation of heat transfer and friction factor characteristics of thermosyphon solar water heater system fitted with spacer at the trailing edge of Left-Right twisted tapes. *Energy Conversion and Management*, **2009**, 50, 2638-2649 | 10.6 | 72 |
| 13 | A Review on the Mechanisms of Heat Transport in Nanofluids. *Heat Transfer Engineering*, **2009**, 30, 1136-1150 | 1.7 | 149 |
| 12 | Experimental studies on the erosion rate of different heat treated carbon steel economiser tubes of power boilers by fly ash particles. *International Journal of Minerals, Metallurgy and Materials*, **2009**, 16, 534-539 | 3.1 | 7 |
| 11 | EXPERIMENTAL STUDIES ON HEAT TRANSFER AND FRICTION FACTOR CHARACTERISTICS OF TURBULENT FLOW THROUGH A CIRCULAR TUBE FITTED WITH RIGHT AND LEFT HELICAL SCREW-TAPE INSERTS. *Chemical Engineering Communications*, **2008**, 195, 977-987 | 2.2 | 38 |
| 10 | Experimental studies on heat transfer and friction factor characteristics of laminar flow through a circular tube fitted with regularly spaced helical screw-tape inserts. *Experimental Thermal and Fluid Science*, **2007**, 31, 301-308 | 3 | 70 |
| 9 | Experimental studies on heat transfer and friction factor characteristics of turbulent flow through a circular tube fitted with helical screw-tape inserts. *Chemical Engineering and Processing: Process Intensification*, **2007**, 46, 1292-1298 | 3.7 | 84 |
| 8 | Experimental studies on heat transfer and friction factor characteristics of turbulent flow through a circular tube fitted with regularly spaced helical screw-tape inserts. *Applied Thermal Engineering*, **2007**, 27, 1311-1319 | 5.8 | 93 |
| 7 | Experimental studies on heat transfer and friction factor characteristics of laminar flow through a circular tube fitted with helical screw-tape inserts. *Applied Thermal Engineering*, **2006**, 26, 1990-1997 | 5.8 | 135 |
| 6 | This study aims to optimize the engine parameters using response surface methodology to achieve fewer pollutants in the exhaust of a spark-ignition engine mounted with a commercial catalytic converter and a sucrolite-catalyst coated converter. *International Journal of Environmental Science and Technology*,1 | 3.3 | 0 |
| 5 | Effect of sucrose catalyst in the catalytic converter on performance and emission of spark ignition engine. *Journal of Thermal Science and Engineering Applications*,1-25 | 1.9 | 3 |
| 4 | Thermal protection by integration of vacuum insulation panel in liquid-cooled active thermal management for electronics package exposed to thermal radiation. *Journal of Thermal Science and Engineering Applications*,1-34 | 1.9 | |
| 3 | Experimental study of heat transfer coefficients on red clay brick wall. *Journal of Thermal Analysis and Calorimetry*,1 | 4.1 | 0 |
| 2 | Experimental investigation of drying kinetics of green chilli and okra using indirect solar dryer with evaluation of dryer performance. *International Journal of Ambient Energy*,1-38 | 2 | 3 |

# List of Publications

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| 1 | An experimental investigation on the effect of relative waviness on performance of minichannel heat sinks using water and nanofluids. *Heat and Mass Transfer*,1 | 2.2 | 2 |