

# Godson L Asirvatham

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74  
papers

2,394  
citations

23  
h-index

48  
g-index

78  
ext. papers

2,804  
ext. citations

3.3  
avg, IF

5.46  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 74 | Effect of confluence length on the heat transport capability of ultra-thin multiport minichannel thermosyphon. <i>Applied Thermal Engineering</i> , <b>2022</b> , 201, 117763   | 5.8 | 0         |
| 73 | An experimental study of the air-side performance of a novel louver spiral fin-and-tube heat exchanger. <i>AEJ - Alexandria Engineering Journal</i> , <b>2022</b> , 61, 9811-9818   | 6.1 | 2         |
| 72 | Prediction of Brake Pad Wear Using Various Machine Learning Algorithms. <i>Lecture Notes in Mechanical Engineering</i> , <b>2022</b> , 529-543  | 0.4 |           |
| 71 | Feasibility of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid in a Compact Loop Heat Pipe. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 467-483  | 0.4 |           |
| 70 | Conjugate heat transfer performance of stepped lid-driven cavity with Al <sub>2</sub> O <sub>3</sub> /water nanofluid under forced and mixed convection. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1  | 1.8 | 6         |
| 69 | Effect of coated mesh wick on the performance of cylindrical heat pipe using graphite nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2021</b> , 146, 297-309   | 4.1 | 2         |
| 68 | Effect of geometrical parameters on the evaporative heat transfer and pressure drop of R-134a flowing in dimpled tubes. <i>Heat and Mass Transfer</i> , <b>2021</b> , 57, 465-479   | 2.2 | 1         |
| 67 | Combined effects of filling ratio and wick surface coating on thermal performance of cylindrical heat pipes. <i>Heat and Mass Transfer</i> , <b>2021</b> , 57, 1171   | 2.2 | 0         |
| 66 | Effect of pin fin configuration on thermal performance of plate pin fin heat sinks. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101269   | 5.6 | 2         |
| 65 | Comprehensive case study on heat transfer enhancement using micro pore metal foams: From solar collectors to thermo electric generator applications. <i>Case Studies in Thermal Engineering</i> , <b>2021</b> , 27, 101333  | 5.6 | 1         |
| 64 | An experimental investigation of the air-side performance of crimped spiral fin-and-tube heat exchangers with a small tube diameter. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 178, 121571   | 4.9 | 6         |
| 63 | Dynamics of rising bubbles in gradually mixing fluids due to the effect of Rayleigh-Taylor instability. <i>International Journal of Multiphase Flow</i> , <b>2020</b> , 129, 103288   | 3.6 | 2         |
| 62 | Heating and cooling capacity of phase change material coupled with screen mesh wick heat pipe for thermal energy storage applications. <i>Thermal Science</i> , <b>2020</b> , 24, 723-734   | 1.2 | 1         |
| 61 | Experimental Investigations of Glycerin/Al <sub>2</sub> O <sub>3</sub> Nanofluid in the Hydrodynamically Developing Region for Automotive Cooling Applications. <i>Lecture Notes in Mechanical Engineering</i> , <b>2020</b> , 541-547                            | 0.4 | 1         |
| 60 | Cooling of high heat flux electronic devices using ultra-thin multiport minichannel thermosyphon. <i>Applied Thermal Engineering</i> , <b>2020</b> , 169, 114669  | 5.8 | 14        |
| 59 | Experimental investigation of the heat transfer and pressure drop characteristics of SiO <sub>2</sub> /water nanofluids flowing through a circular tube equipped with free rotating swirl generators. <i>Heat and Mass Transfer</i> , <b>2020</b> , 56, 1613-1626 | 2.2 | 5         |
| 58 | Experimental Studies on Thermophysical and Electrical Properties of Graphene-Transformer Oil Nanofluid. <i>Fluids</i> , <b>2020</b> , 5, 172  | 1.6 | 9         |

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| 57 | Experimental and numerical studies on heat transfer enhancement for air conditioner condensers using a wavy fin with a rectangular winglet. <i>Journal of Mechanical Science and Technology</i> , <b>2020</b> , 34, 4307-4322  | 1.6 | 0  |
| 56 | Feasibility of using multiport minichannel as thermosyphon for cooling of miniaturized electronic devices. <i>Heat Transfer</i> , <b>2020</b> , 49, 4834-4856  | 3.1 | 7  |
| 55 | Thermal Management of Electronic Devices Using Gold and Carbon Nanofluids in a Lid-Driven Square Cavity Under the Effect of Variety of Magnetic Fields. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2020</b> , 10, 1868-1878 | 1.7 | 9  |
| 54 | Heat transfer and fluid flow characteristics in a plate heat exchanger filled with copper foam. <i>Heat and Mass Transfer</i> , <b>2020</b> , 56, 3261-3271  | 2.2 | 2  |
| 53 | Experimental investigation on two-phase heat transfer of R-134a during vaporization in a plate heat exchanger with rough surface. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 160, 120221   | 4.9 | 2  |
| 52 | Thermal performance enhancement studies using graphite nanofluid for heat transfer applications. <i>Heat Transfer</i> , <b>2020</b> , 49, 3013-3029  | 3.1 | 7  |
| 51 | Application of the heat pipe to enhance the performance of the vapor compression refrigeration system. <i>Case Studies in Thermal Engineering</i> , <b>2019</b> , 15, 100531   | 5.6 | 13 |
| 50 | Experimental investigation of condensation heat transfer on chlorotriethylsilane coated grooved vertical tube. <i>International Communications in Heat and Mass Transfer</i> , <b>2019</b> , 108, 104312   | 5.8 | 5  |
| 49 | Effect of Filling Ratio and Tilt Angle on the Performance of a Mini-Loop Thermosyphon. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2019</b> , 11,  | 1.9 | 2  |
| 48 | Fluid flow and heat transfer characteristics of heat sinks with laterally perforated plate fins. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 138, 293-303   | 4.9 | 19 |
| 47 | Performance prediction of hybrid thermoelectric generator with high accuracy using artificial neural networks. <i>Sustainable Energy Technologies and Assessments</i> , <b>2019</b> , 33, 53-60  | 4.7 | 13 |
| 46 | Sizing charts of helical capillary tubes used in refrigeration and air conditioning. <i>Science and Technology for the Built Environment</i> , <b>2019</b> , 25, 1-10  | 1.8 | 6  |
| 45 | Experimental study on evaporative heat transfer and pressure drop of R-134a in a horizontal dimpled tube. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 144, 118688   | 4.9 | 11 |
| 44 | Effect of uniform/non-uniform magnetic field and jet impingement on the hydrodynamic and heat transfer performance of nanofluids. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 479, 268-281  | 2.8 | 16 |
| 43 | Heat transfer performance of a compact loop heat pipe with alumina and silver nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2019</b> , 136, 211-222   | 4.1 | 14 |
| 42 | Convective heat transfer analysis of refined kerosene with alumina particles for rocketry application. <i>Journal of Mechanical Science and Technology</i> , <b>2018</b> , 32, 1685-1691   | 1.6 | 2  |
| 41 | Experimental study of condensation heat transfer on hydrophobic vertical tube. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 120, 305-315   | 4.9 | 13 |
| 40 | Experimental Investigation on the Performance of a Parallel Plate-Based Active Magnetic Regenerator <b>2018</b> , 26, 1850018  |     | 6  |

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| 39 | Effect of Nanoparticle Coating on the Performance of a Miniature Loop Heat Pipe for Electronics Cooling Applications. <i>Journal of Heat Transfer</i> , <b>2018</b> , 140,  | 1.8 | 18  |
| 38 | Absorption refrigeration system using engine exhaust gas as an energy source. <i>Case Studies in Thermal Engineering</i> , <b>2018</b> , 12, 797-804  | 5.6 | 10  |
| 37 | Thermal Management of Electronic Devices Using Combined Effects of Nanoparticle Coating and Graphene/Water Nanofluid in a Miniature Loop Heat Pipe. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2018</b> , 8, 1241-1253 | 1.7 | 8   |
| 36 | Power generation enhancement with hybrid thermoelectric generator using biomass waste heat energy. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 85, 1-12   | 3   | 23  |
| 35 | Thermal performance of a vapor chamber for electronic cooling applications. <i>Journal of Mechanical Science and Technology</i> , <b>2017</b> , 31, 1995-2003   | 1.6 | 9   |
| 34 | Performance of cylindrical and flattened heat pipes at various inclinations including repeatability in anti-gravity: A comparative study. <i>Applied Thermal Engineering</i> , <b>2017</b> , 122, 685-696   | 5.8 | 15  |
| 33 | Entropy generation analysis of a miniature loop heat pipe with graphene/Water nanofluid: Thermodynamics model and experimental study. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 106, 407-421                                       | 4.9 | 38  |
| 32 | Experimental Investigation of Thermo-Physical Properties of Al <sub>2</sub> O <sub>3</sub> Nanofluid on Commercially Available Blue Dyed Kerosene for Low Volume Concentration. <i>Nano Hybrids and Composites</i> , <b>2017</b> , 17, 156-165                  | 0.7 |     |
| 31 | Numerical Study on Convective Heat Transfer Characteristics of Silver/Water Nanofluid in Minichannel. <i>Current Nanoscience</i> , <b>2017</b> , 13,  | 1.4 | 1   |
| 30 | Air-side performance of a micro-channel heat exchanger in wet surface conditions. <i>Thermal Science</i> , <b>2017</b> , 21, 375-385  | 1.2 | 1   |
| 29 | Entropy generation analysis of graphene/Alumina hybrid nanofluid in multiport minichannel heat exchanger coupled with thermoelectric cooler. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 103, 1084-1097                              | 4.9 | 145 |
| 28 | Effect of filling ratio on the performance of a novel miniature loop heat pipe having different diameter transport lines. <i>Applied Thermal Engineering</i> , <b>2016</b> , 106, 588-600   | 5.8 | 38  |
| 27 | Comparative study of the effect of hybrid nanoparticle on the thermal performance of cylindrical screen mesh heat pipe. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 76, 294-300   | 5.8 | 48  |
| 26 | Thermoelectric cooling of electronic devices with nanofluid in a multiport minichannel heat exchanger. <i>Experimental Thermal and Fluid Science</i> , <b>2016</b> , 74, 81-90  | 3   | 87  |
| 25 | Thermal performance of miniature loop heat pipe with graphene/Water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 93, 957-968   | 4.9 | 55  |
| 24 | Measurement of thermal conductivity of graphene/Water nanofluid at below and above ambient temperatures. <i>International Communications in Heat and Mass Transfer</i> , <b>2016</b> , 70, 66-74  | 5.8 | 68  |
| 23 | Effect of volume concentration and temperature on viscosity and surface tension of graphene/Water nanofluid for heat transfer applications. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 123, 1399-1409                                   | 4.1 | 113 |
| 22 | The role of hybrid nanofluids in improving the thermal characteristics of screen mesh cylindrical heat pipes. <i>Thermal Science</i> , <b>2016</b> , 20, 2027-2035  | 1.2 | 18  |

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|----|---|------|-----|
| 21 | An experimental study on two-phase flow patterns and heat transfer characteristics during boiling of R134a flowing through a multi-microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 98, 390-400 | 4.9  | 40  |
| 20 | Analysing the Performance of a Flat Plate Solar Collector with Silver/Water Nanofluid Using Artificial Neural Network. <i>Procedia Computer Science</i> , <b>2016</b> , 93, 33-40   | 1.6  | 35  |
| 19 | Heat transfer performance of an anodized two-phase closed thermosyphon with refrigerant as working fluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 82, 521-529  | 4.9  | 71  |
| 18 | Heat Transfer Performance of a Glass Thermosyphon Using Graphene-Acetone Nanofluid. <i>Journal of Heat Transfer</i> , <b>2015</b> , 137,  | 1.8  | 35  |
| 17 | Heat transfer performance of silver/water nanofluid in a solar flat-plate collector. <i>Journal of Thermal Engineering</i> , <b>2015</b> , 1, 104   | 1.1  | 23  |
| 16 | Nanofluid heat transfer and applications. <i>Journal of Thermal Engineering</i> , <b>2015</b> , 1, 113  | 1.1  | 10  |
| 15 | Experimental investigation on enhancement in thermal characteristics of sintered wick heat pipe using CuO nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 72, 507-516                                      | 4.9  | 56  |
| 14 | Comparative study on heat transfer characteristics of sintered and mesh wick heat pipes using CuO nanofluids. <i>International Communications in Heat and Mass Transfer</i> , <b>2014</b> , 57, 208-215                                       | 5.8  | 53  |
| 13 | Heat transfer characteristics of silver/water nanofluids in a shell and tube heat exchanger. <i>Archives of Civil and Mechanical Engineering</i> , <b>2014</b> , 14, 489-496  | 3.4  | 64  |
| 12 | Numerical analysis of a screen mesh wick heat pipe with Cu/water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2014</b> , 75, 523-533  | 4.9  | 47  |
| 11 | Heat transfer performance of screen mesh wick heat pipes using silver-water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 60, 201-209   | 4.9  | 76  |
| 10 | Operational Limitations of Heat Pipes With Silver-Water Nanofluids. <i>Journal of Heat Transfer</i> , <b>2013</b> , 135,  | 1.8  | 10  |
| 9  | Convective Heat Transfer Characteristics of Silver-Water Nanofluid Under Laminar and Turbulent Flow Conditions. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2012</b> , 4,   | 1.9  | 21  |
| 8  | Convective heat transfer of nanofluids with correlations. <i>Particuology</i> , <b>2011</b> , 9, 626-631  | 2.8  | 61  |
| 7  | Measurement of Thermo Physical Properties of Metallic Nanofluids for High Temperature Applications. <i>Nanoscale and Microscale Thermophysical Engineering</i> , <b>2010</b> , 14, 152-173  | 3.7  | 31  |
| 6  | Experimental Investigation on the Thermal Conductivity and Viscosity of Silver-Deionized Water Nanofluid. <i>Experimental Heat Transfer</i> , <b>2010</b> , 23, 317-332   | 2.4  | 221 |
| 5  | Enhancement of heat transfer using nanofluids-An overview. <i>Renewable and Sustainable Energy Reviews</i> , <b>2010</b> , 14, 629-641  | 16.2 | 573 |
| 4  | Experimental analysis of parallel plate and crosscut pin fin heat sinks for electronic cooling applications. <i>Thermal Science</i> , <b>2010</b> , 14, 147-156   | 1.2  | 3   |

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|---|---|-----|----|
| 3 | Experimental Study on Forced Convective Heat Transfer with Low Volume Fraction of CuO/Water Nanofluid. <i>Energies</i> , <b>2009</b> , 2, 97-119                                  | 3.1 | 61 |
| 2 | POWER GENERATION FROM COMBUSTED BYNGAS USING HYBRID THERMOELECTRIC GENERATOR AND FORECASTING THE PERFORMANCE WITH ANN TECHNIQUE. <i>Journal of Thermal Engineering</i> ,2149-2168 | 1.1 | 8  |
| 1 | FEASIBILITY OF GLYCERIN/Al <sub>2</sub> O <sub>3</sub> NANOFLUID FOR AUTOMOTIVE COOLING APPLICATIONS. <i>Journal of Thermal Engineering</i> ,619-631                              | 1.1 |    |