

Godson L Asirvatham

List of Publications by Citations

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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	Enhancement of heat transfer using nanofluids—An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 629-641	16.2	573
73	Experimental Investigation on the Thermal Conductivity and Viscosity of Silver-Deionized Water Nanofluid. <i>Experimental Heat Transfer</i> , 2010 , 23, 317-332	2.4	221
72	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> , 2016 , 103, 1084-1097	4.9	145
71	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> , 2016 , 123, 1399-1409	4.1	113
70	Thermoelectric cooling of electronic devices with nanofluid in a multiport minichannel heat exchanger. <i>Experimental Thermal and Fluid Science</i> , 2016 , 74, 81-90	3	87
69	Heat transfer performance of screen mesh wick heat pipes using silver—water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 60, 201-209	4.9	76
68	Heat transfer performance of an anodized two-phase closed thermosyphon with refrigerant as working fluid. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 82, 521-529	4.9	71
67	Measurement of thermal conductivity of graphene—water nanofluid at below and above ambient temperatures. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 70, 66-74	5.8	68
66	Heat transfer characteristics of silver/water nanofluids in a shell and tube heat exchanger. <i>Archives of Civil and Mechanical Engineering</i> , 2014 , 14, 489-496	3.4	64
65	Convective heat transfer of nanofluids with correlations. <i>Particuology</i> , 2011 , 9, 626-631	2.8	61
64	Experimental Study on Forced Convective Heat Transfer with Low Volume Fraction of CuO/Water Nanofluid. <i>Energies</i> , 2009 , 2, 97-119	3.1	61
63	Experimental investigation on enhancement in thermal characteristics of sintered wick heat pipe using CuO nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 72, 507-516	4.9	56
62	Thermal performance of miniature loop heat pipe with graphene—water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 93, 957-968	4.9	55
61	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> , 2014 , 57, 208-215	5.8	53
60	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> , 2016 , 76, 294-300	5.8	48
59	Numerical analysis of a screen mesh wick heat pipe with Cu/water nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 75, 523-533	4.9	47
58	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> , 2016 , 98, 390-400	4.9	40

57	Effect of filling ratio on the performance of a novel miniature loop heat pipe having different diameter transport lines. <i>Applied Thermal Engineering</i> , 2016 , 106, 588-600	5.8	38
56	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> , 2017 , 106, 407-421	4.9	38
55	Heat Transfer Performance of a Glass Thermosyphon Using Graphene/Acetone Nanofluid. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	35
54	Analysing the Performance of a Flat Plate Solar Collector with Silver/Water Nanofluid Using Artificial Neural Network. <i>Procedia Computer Science</i> , 2016 , 93, 33-40	1.6	35
53	Measurement of Thermo Physical Properties of Metallic Nanofluids for High Temperature Applications. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2010 , 14, 152-173	3.7	31
52	Power generation enhancement with hybrid thermoelectric generator using biomass waste heat energy. <i>Experimental Thermal and Fluid Science</i> , 2017 , 85, 1-12	3	23
51	Heat transfer performance of silver/water nanofluid in a solar flat-plate collector. <i>Journal of Thermal Engineering</i> , 2015 , 1, 104	1.1	23
50	Convective Heat Transfer Characteristics of Silver-Water Nanofluid Under Laminar and Turbulent Flow Conditions. <i>Journal of Thermal Science and Engineering Applications</i> , 2012 , 4,	1.9	21
49	Fluid flow and heat transfer characteristics of heat sinks with laterally perforated plate fins. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 138, 293-303	4.9	19
48	The role of hybrid nanofluids in improving the thermal characteristics of screen mesh cylindrical heat pipes. <i>Thermal Science</i> , 2016 , 20, 2027-2035	1.2	18
47	Effect of Nanoparticle Coating on the Performance of a Miniature Loop Heat Pipe for Electronics Cooling Applications. <i>Journal of Heat Transfer</i> , 2018 , 140,	1.8	18
46	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> , 2019 , 479, 268-281	2.8	16
45	Performance of cylindrical and flattened heat pipes at various inclinations including repeatability in anti-gravity – A comparative study. <i>Applied Thermal Engineering</i> , 2017 , 122, 685-696	5.8	15
44	Cooling of high heat flux electronic devices using ultra-thin multiport minichannel thermosyphon. <i>Applied Thermal Engineering</i> , 2020 , 169, 114669	5.8	14
43	Heat transfer performance of a compact loop heat pipe with alumina and silver nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 211-222	4.1	14
42	Application of the heat pipe to enhance the performance of the vapor compression refrigeration system. <i>Case Studies in Thermal Engineering</i> , 2019 , 15, 100531	5.6	13
41	Performance prediction of hybrid thermoelectric generator with high accuracy using artificial neural networks. <i>Sustainable Energy Technologies and Assessments</i> , 2019 , 33, 53-60	4.7	13
40	Experimental study of condensation heat transfer on hydrophobic vertical tube. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 120, 305-315	4.9	13

39	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> , 2019 , 144, 118688	4.9	11
38	Operational Limitations of Heat Pipes With Silver-Water Nanofluids. <i>Journal of Heat Transfer</i> , 2013 , 135,	1.8	10
37	Nanofluid heat transfer and applications. <i>Journal of Thermal Engineering</i> , 2015 , 1, 113	1.1	10
36	Absorption refrigeration system using engine exhaust gas as an energy source. <i>Case Studies in Thermal Engineering</i> , 2018 , 12, 797-804	5.6	10
35	Thermal performance of a vapor chamber for electronic cooling applications. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 1995-2003	1.6	9
34	Experimental Studies on Thermophysical and Electrical Properties of Graphene-Transformer Oil Nanofluid. <i>Fluids</i> , 2020 , 5, 172	1.6	9
33	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> , 2020 , 10, 1868-1878	1.7	9
32	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
31	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> , 2018 , 8, 1241-1253	1.7	8
30	Feasibility of using multiport minichannel as thermosyphon for cooling of miniaturized electronic devices. <i>Heat Transfer</i> , 2020 , 49, 4834-4856	3.1	7
29	Thermal performance enhancement studies using graphite nanofluid for heat transfer applications. <i>Heat Transfer</i> , 2020 , 49, 3013-3029	3.1	7
28	Experimental Investigation on the Performance of a Parallel Plate-Based Active Magnetic Regenerator 2018 , 26, 1850018		6
27	Sizing charts of helical capillary tubes used in refrigeration and air conditioning. <i>Science and Technology for the Built Environment</i> , 2019 , 25, 1-10	1.8	6
26	Conjugate heat transfer performance of stepped lid-driven cavity with Al ₂ O ₃ /water nanofluid under forced and mixed convection. <i>SN Applied Sciences</i> , 2021 , 3, 1	1.8	6
25	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> , 2021 , 178, 121571-121581	4.9	6
24	Experimental investigation of condensation heat transfer on chlorotriethylsilane coated grooved vertical tube. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 108, 104312	5.8	5
23	Experimental investigation of the heat transfer and pressure drop characteristics of SiO ₂ /water nanofluids flowing through a circular tube equipped with free rotating swirl generators. <i>Heat and Mass Transfer</i> , 2020 , 56, 1613-1626	2.2	5
22	Experimental analysis of parallel plate and crosscut pin fin heat sinks for electronic cooling applications. <i>Thermal Science</i> , 2010 , 14, 147-156	1.2	3

21	Effect of Filling Ratio and Tilt Angle on the Performance of a Mini-Loop Thermosyphon. <i>Journal of Thermal Science and Engineering Applications</i> , 2019 , 11,	1.9	2
20	Dynamics of rising bubbles in gradually mixing fluids due to the effect of Rayleigh-Taylor instability. <i>International Journal of Multiphase Flow</i> , 2020 , 129, 103288	3.6	2
19	Convective heat transfer analysis of refined kerosene with alumina particles for rocketry application. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 1685-1691	1.6	2
18	Heat transfer and fluid flow characteristics in a plate heat exchanger filled with copper foam. <i>Heat and Mass Transfer</i> , 2020 , 56, 3261-3271	2.2	2
17	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> , 2020 , 160, 120221	4.9	2
16	Effect of coated mesh wick on the performance of cylindrical heat pipe using graphite nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 146, 297-309	4.1	2
15	Effect of pin fin configuration on thermal performance of plate pin fin heat sinks. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101269	5.6	2
14	An experimental study of the air-side performance of a novel louver spiral fin-and-tube heat exchanger. <i>AEJ - Alexandria Engineering Journal</i> , 2022 , 61, 9811-9818	6.1	2
13	Numerical Study on Convective Heat Transfer Characteristics of Silver/Water Nanofluid in Minichannel. <i>Current Nanoscience</i> , 2017 , 13,	1.4	1
12	Air-side performance of a micro-channel heat exchanger in wet surface conditions. <i>Thermal Science</i> , 2017 , 21, 375-385	1.2	1
11	Heating and cooling capacity of phase change material coupled with screen mesh wick heat pipe for thermal energy storage applications. <i>Thermal Science</i> , 2020 , 24, 723-734	1.2	1
10	Experimental Investigations of Glycerin/Al ₂ O ₃ Nanofluid in the Hydrodynamically Developing Region for Automotive Cooling Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 541-547	0.4	1
9	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> , 2021 , 57, 465-479	2.2	1
8	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> , 2021 , 27, 101333	5.6	1
7	Effect of confluence length on the heat transport capability of ultra-thin multiport minichannel thermosyphon. <i>Applied Thermal Engineering</i> , 2022 , 201, 117763	5.8	0
6	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> , 2020 , 34, 4307-4322	1.6	0
5	Combined effects of filling ratio and wick surface coating on thermal performance of cylindrical heat pipes. <i>Heat and Mass Transfer</i> , 2021 , 57, 1171	2.2	0
4	Experimental Investigation of Thermo-Physical Properties of Al ₂ O ₃ Nanofluid on Commercially Available Blue Dyed Kerosene for Low Volume Concentration. <i>Nano Hybrids and Composites</i> , 2017 , 17, 156-165	0.7	

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| 3 | FEASIBILITY OF GLYCERIN/Al ₂ O ₃ NANOFLUID FOR AUTOMOTIVE COOLING APPLICATIONS. <i>Journal of Thermal Engineering</i> , 619-631 | 1.1 |
| 2 | Feasibility of Al ₂ O ₃ /Water Nanofluid in a Compact Loop Heat Pipe. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 467-483 | 0.4 |
| 1 | Prediction of Brake Pad Wear Using Various Machine Learning Algorithms. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 529-543 | 0.4 |