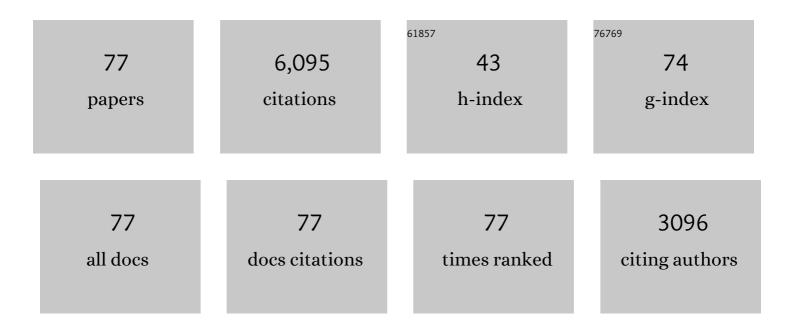
L Syam Sundar

List of Publications by Year in descending order

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L SVAM SUNDAD

#	Article	IF	CITATIONS
1	Enhanced heat transfer and friction factor of MWCNT–Fe3O4/water hybrid nanofluids. International Communications in Heat and Mass Transfer, 2014, 52, 73-83.	2.9	482
2	Hybrid nanofluids preparation, thermal properties, heat transfer and friction factor – A review. Renewable and Sustainable Energy Reviews, 2017, 68, 185-198.	8.2	406
3	Investigation of thermal conductivity and viscosity of Fe3O4 nanofluid for heat transfer applications. International Communications in Heat and Mass Transfer, 2013, 44, 7-14.	2.9	350
4	Experimental thermal conductivity of ethylene glycol and water mixture based low volume concentration of Al2O3 and CuO nanofluids. International Communications in Heat and Mass Transfer, 2013, 41, 41-46.	2.9	240
5	Turbulent heat transfer and friction factor of Al2O3 Nanofluid in circular tube with twisted tape inserts. International Journal of Heat and Mass Transfer, 2010, 53, 1409-1416.	2.5	233
6	Thermal conductivity and viscosity of stabilized ethylene glycol and water mixture Al2O3 nanofluids for heat transfer applications: An experimental study. International Communications in Heat and Mass Transfer, 2014, 56, 86-95.	2.9	219
7	Estimation of heat transfer coefficient and friction factor in the transition flow with low volume concentration of Al2O3 nanofluid flowing in a circular tube and with twisted tape insert. International Communications in Heat and Mass Transfer, 2009, 36, 503-507.	2.9	212
8	Experimental investigation of forced convection heat transfer and friction factor in a tube with Fe3O4 magnetic nanofluid. Experimental Thermal and Fluid Science, 2012, 37, 65-71.	1.5	200
9	Empirical and theoretical correlations on viscosity of nanofluids: A review. Renewable and Sustainable Energy Reviews, 2013, 25, 670-686.	8.2	183
10	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. Physics Reports, 2022, 946, 1-94.	10.3	179
11	Thermal conductivity of ethylene glycol and water mixture based Fe3O4 nanofluid. International Communications in Heat and Mass Transfer, 2013, 49, 17-24.	2.9	159
12	Nanodiamond-Fe 3 O 4 nanofluids: Preparation and measurement of viscosity, electrical and thermal conductivities. International Communications in Heat and Mass Transfer, 2016, 73, 62-74.	2.9	157
13	Enhanced Thermal Conductivity and Viscosity of Nanodiamond-Nickel Nanocomposite Nanofluids. Scientific Reports, 2014, 4, 4039.	1.6	145
14	Experimental investigation of Al2O3/water nanofluids on the effectiveness of solar flat-plate collectors with and without twisted tape inserts. Renewable Energy, 2018, 119, 820-833.	4.3	123
15	Convective heat transfer and friction factor correlations of nanofluid in a tube and with inserts: A review. Renewable and Sustainable Energy Reviews, 2013, 20, 23-35.	8.2	121
16	Viscosity of low volume concentrations of magnetic Fe3O4 nanoparticles dispersed in ethylene glycol and water mixture. Chemical Physics Letters, 2012, 554, 236-242.	1.2	120
17	Experimental investigation of the thermal transport properties of graphene oxide/Co 3 O 4 hybrid nanofluids. International Communications in Heat and Mass Transfer, 2017, 84, 1-10.	2.9	117
18	Thermal conductivity and viscosity of hybrid nanfluids prepared with magnetic nanodiamond-cobalt oxide (ND-Co3O4) nanocomposite. Case Studies in Thermal Engineering, 2016, 7, 66-77.	2.8	106

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19	Thermal conductivity and viscosity of water based nanodiamond (ND) nanofluids: An experimental study. International Communications in Heat and Mass Transfer, 2016, 76, 245-255.	2.9	100
20	Preparation, characterization, stability, and thermal conductivity of rGO-Fe3O4-TiO2 hybrid nanofluid: An experimental study. Powder Technology, 2020, 372, 235-245.	2.1	99
21	Heat transfer, entropy generation, economic and environmental analyses of linear fresnel reflector using novel rGO-Co3O4 hybrid nanofluids. Renewable Energy, 2021, 165, 420-437.	4.3	98
22	Effect of full length twisted tape inserts on heat transfer and friction factor enhancement with Fe3O4 magnetic nanofluid inside a plain tube: An experimental study. International Journal of Heat and Mass Transfer, 2012, 55, 2761-2768.	2.5	95
23	Comparative study on thermal performance of twisted tape and wire coil inserts in turbulent flow using CuO/water nanofluid. Experimental Thermal and Fluid Science, 2014, 57, 65-76.	1.5	90
24	Heat transfer, friction factor and effectiveness analysis of Fe 3 O 4 /water nanofluid flow in a double pipe heat exchanger with return bend. International Communications in Heat and Mass Transfer, 2017, 81, 155-163.	2.9	89
25	Heat transfer enhancements of low volume concentration Al2O3 nanofluid and with longitudinal strip inserts in a circular tube. International Journal of Heat and Mass Transfer, 2010, 53, 4280-4286.	2.5	84
26	Experimental investigations in heat transfer and friction factor of magnetic Ni nanofluid flowing in a tube. International Journal of Heat and Mass Transfer, 2014, 70, 224-234.	2.5	78
27	Effectiveness analysis of solar flat plate collector with Al2O3 water nanofluids and with longitudinal strip inserts. International Journal of Heat and Mass Transfer, 2018, 127, 422-435.	2.5	75
28	Experimental study of heat transfer and friction factor of Al2O3 nanofluid in U-tube heat exchanger with helical tape inserts. Experimental Thermal and Fluid Science, 2015, 62, 141-150.	1.5	71
29	Turbulent heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube: An experimental study. International Journal of Heat and Mass Transfer, 2018, 117, 223-234.	2.5	68
30	Numerical validation of experimental heat transfer coefficient with SiO 2 nanofluid flowing in a tube with twisted tape inserts. Applied Thermal Engineering, 2014, 73, 296-306.	3.0	67
31	Thermophysical properties using ND/water nanofluids: An experimental study, ANFIS-based model and optimization. Journal of Molecular Liquids, 2021, 330, 115659.	2.3	67
32	Thermal conductivity enhancement of nanoparticles in distilled water. International Journal of Nanoparticles, 2008, 1, 66.	0.1	63
33	Heat transfer and friction factor of multi-walled carbon nanotubes–Fe 3 O 4 nanocomposite nanofluids flow in a tube with/without longitudinal strip inserts. International Journal of Heat and Mass Transfer, 2016, 100, 691-703.	2.5	62
34	Optimizing density, dynamic viscosity, thermal conductivity and specific heat of a hybrid nanofluid obtained experimentally via ANFIS-based model and modern optimization. Journal of Molecular Liquids, 2021, 321, 114287.	2.3	61
35	Experimental heat transfer, friction factor and effectiveness analysis of Fe3O4 nanofluid flow in a horizontal plain tube with return bend and wire coil inserts. International Journal of Heat and Mass Transfer, 2017, 109, 440-453.	2.5	60
36	Thermophysical properties of water, water and ethylene glycol mixture-based nanodiamondÂ+ÂFe3O4 hybrid nanofluids: An experimental assessment and application of data-driven approaches. Journal of Molecular Liquids, 2022, 347, 117944.	2.3	58

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37	Experimental investigation of thermo-physical properties, heat transfer, pumping power, entropy generation, and exergy efficiency of nanodiamondÂ+ÂFe3O4/60:40% water-ethylene glycol hybrid nanofluid flow in a tube. Thermal Science and Engineering Progress, 2021, 21, 100799.	1.3	55
38	Synthesis, stability, thermophysical properties and AI approach for predictive modelling of Fe3O4 coated MWCNT hybrid nanofluids. Journal of Molecular Liquids, 2021, 340, 117291.	2.3	55
39	Experimental investigation of heat transfer and friction factor with water–propylene glycol based CuO nanofluid in a tube with twisted tape inserts. International Communications in Heat and Mass Transfer, 2013, 46, 13-21.	2.9	54
40	Experimental study on heat transfer, friction factor, entropy and exergy efficiency analyses of a corrugated plate heat exchanger using Ni/water nanofluids. International Journal of Thermal Sciences, 2021, 165, 106935.	2.6	53
41	Heat Transfer Enhancement of Low Volume Concentration of Carbon Nanotube-Fe3O4/Water Hybrid Nanofluids in a Tube With Twisted Tape Inserts Under Turbulent Flow. Journal of Thermal Science and Engineering Applications, 2015, 7, .	0.8	52
42	Experimental thermal conductivity and viscosity of nanodiamond-based propylene glycol and water mixtures. Diamond and Related Materials, 2016, 69, 49-60.	1.8	49
43	Entropy generation and exergy efficiency analysis of ethylene glycol-water based nanodiamondÂ+ÂFe3O4 hybrid nanofluids in a circular tube. Powder Technology, 2021, 380, 430-442.	2.1	48
44	Electrical conductivity enhancement of nanodiamond–nickel (ND–Ni) nanocomposite based magnetic nanofluids. International Communications in Heat and Mass Transfer, 2014, 57, 1-7.	2.9	42
45	Heat Transfer and Second Law Analysis of Ethylene Glycol-Based Ternary Hybrid Nanofluid Under Laminar Flow. Journal of Thermal Science and Engineering Applications, 2021, 13, .	0.8	41
46	Heat transfer, friction factor and effectiveness of Fe 3 O 4 nanofluid flow in an inner tube of double pipe U-bend heat exchanger with and without longitudinal strip inserts. Experimental Thermal and Fluid Science, 2017, 85, 331-343.	1.5	39
47	Heat transfer and effectiveness experimentally-based analysis of wire coil with core-rod inserted in Fe3O4/water nanofluid flow in a double pipe U-bend heat exchanger. International Journal of Heat and Mass Transfer, 2019, 134, 405-419.	2.5	39
48	Properties, heat transfer, energy efficiency and environmental emissions analysis of flat plate solar collector using nanodiamond nanofluids. Diamond and Related Materials, 2020, 110, 108115.	1.8	39
49	Experimental investigation on the performance of hybrid Fe3O4 coated MWCNT/Water nanofluid as a coolant of a Plate heat exchanger. International Journal of Thermal Sciences, 2022, 171, 107249.	2.6	35
50	Graphene oxide induces cytotoxicity and oxidative stress in bluegill sunfish cells. Journal of Applied Toxicology, 2018, 38, 504-513.	1.4	33
51	Heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube with longitudinal strip inserts. International Journal of Heat and Mass Transfer, 2018, 121, 390-401.	2.5	32
52	Energy, efficiency, economic impact, and heat transfer aspects of solar flat plate collector with Al2O3 nanofluids and wire coil with core rod inserts. Sustainable Energy Technologies and Assessments, 2020, 40, 100772.	1.7	32
53	Experimental analysis of exergy efficiency and entropy generation of diamond/water nanofluids flow in a thermosyphon flat plate solar collector. International Communications in Heat and Mass Transfer, 2021, 120, 105057.	2.9	32
54	Efficiency analysis of thermosyphon solar flat plate collector with low mass concentrations of ND–Co3O4 hybrid nanofluids: an experimental study. Journal of Thermal Analysis and Calorimetry, 2021, 143, 959-972.	2.0	29

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55	Enhanced thermal properties of nanodiamond nanofluids. Chemical Physics Letters, 2016, 644, 99-110.	1.2	24
56	Thermal entropy and exergy efficiency analyses of nanodiamond/water nanofluid flow in a plate heat exchanger. Diamond and Related Materials, 2021, 120, 108648.	1.8	19
57	Efficiency, energy and economic analysis of twisted tape inserts in a thermosyphon solar flat plate collector with Cu nanofluids. Renewable Energy Focus, 2020, 35, 10-31.	2.2	18
58	Thermal performance, embodied energy and environmental CO2 emissions analyses for double pipe U-bend heat exchanger working with MWCNT/water nanofluid. International Journal of Thermal Sciences, 2021, 169, 107094.	2.6	18
59	The Combined Effect of Al2O3 Nanofluid and Coiled Wire Inserts in a Flat-Plate Solar Collector on Heat Transfer, Thermal Efficiency and Environmental CO2 Characteristics. Arabian Journal for Science and Engineering, 2022, 47, 9187-9214.	1.7	15
60	Second law of thermodynamic analysis of 40:60% propylene glycol and water mixture based nanodiamond nanofluid under transition flow. Diamond and Related Materials, 2021, 117, 108480.	1.8	12
61	Experimental investigation of thermal performance characteristics of sintered copper wicked and grooved heat pipes: A comparative study. Journal of Central South University, 2021, 28, 3507-3520.	1.2	11
62	4E (energy, exergy, economic and environmental) investigation of LFR using MXene based silicone oil nanofluids. Sustainable Energy Technologies and Assessments, 2022, 49, 101715.	1.7	10
63	Estimation of Annual Solar Radiation from measured temperatures by using Temperature-based (TB) approach in different cities in India. Sustainable Cities and Society, 2011, 1, 187-194.	5.1	9
64	A Review on the Use of Hybrid Nanofluid in a Solar Flat Plate and Parabolic Trough Collectors and Its Enhanced Collector Thermal Efficiency. Journal of Nanofluids, 2021, 10, 147-171.	1.4	9
65	Biocompatibility and biotoxicity of in-situ synthesized carboxylated nanodiamond-cobalt oxide nanocomposite. Journal of Materials Science and Technology, 2017, 33, 879-888.	5.6	8
66	Heat Transfer and Friction Factor of Al ₂ O ₃ Nanofluid Flow in a Double Pipe U-Tube Heat Exchanger and with Longitudinal Strip Inserts: An Experimental Study. Journal of Nanofluids, 2015, 4, 293-301.	1.4	7
67	Experimental Investigation of Heat Transfer and Friction Factor Characteristics in a Circular Tube with Longitudinal Strip Inserts. Journal of Enhanced Heat Transfer, 2008, 15, 325-333.	0.5	7
68	The second law of thermodynamic analysis for longitudinal strip inserted nanodiamond-Fe3O4/water hybrid nanofluids. International Journal of Thermal Sciences, 2022, 181, 107721.	2.6	7
69	Experimental investigations on thermal conductivity of water and Al <sub align="right">2O<sub align="right">3 nanofluids at low concentrations. International Journal of Nanoparticles, 2012, 5, 300.</sub </sub>	0.1	6
70	Augmentation of Heat Transfer of High Prandtl Number Fe3O4/vacuum pump oil nanofluids flow in a tube with twisted tape inserts in laminar flow. Heat and Mass Transfer, 2020, 56, 3111-3125.	1.2	5
71	Thermal entropy generation and exergy efficiency analyses of coiled wire inserted nanodiamond + Fe3O4/water hybrid nanofluid in a tube. Journal of Thermal Analysis and Calorimetry, 2022, 147, 7917-7944.	2.0	4
72	Turbulent forced convection of Al _{2O_{3 nanofluid in a circular tube with tape inserts at low volume concentration. International Journal of Nano and Biomaterials, 2009, 2, 60.}}	0.1	3

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73	Thermosyphon Flat Plate Collector with Nanodiamond-Water Nanofluids: Properties, Friction Factor, Heat Transfer, Thermal Efficiency, and Cost Analysis. Arabian Journal for Science and Engineering, 2021, 46, 7211-7226.	1.7	3
74	Thermosyphon solar water heating system with Cu/water nanofluid and wire coil configurations: Efficiency, energy, economic, environmental, and heat transfer study. Environmental Progress and Sustainable Energy, 2021, 40, e13648.	1.3	2
75	Thermophysical, electrical, magnetic, and dielectric properties of hybrid nanofluids. , 2022, , 65-92.		1
76	Hydrothermal properties of hybrid nanofluids. , 2022, , 93-109.		1
77	Experimental Study on Heat Transfer and Friction Factor of Nanodiamond-Nickel (ND-Ni) Nanocomposite Nanofluids Flow in a Tube with Twisted Tape Inserts. Journal of Nanofluids, 2018, 8, 980-989.	1.4	0