

L Syam Sundar

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2779802/l-syam-sundar-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

75
papers

4,292
citations

36
h-index

65
g-index

77
ext. papers

5,221
ext. citations

5.1
avg, IF

6.4
L-index

#	Paper	IF	Citations
75	Thermophysical, electrical, magnetic, and dielectric properties of hybrid nanofluids 2022 , 65-92		
74	Hydrothermal properties of hybrid nanofluids 2022 , 93-109		0
73	4E (energy, exergy, economic and environmental) investigation of LFR using MXene based silicone oil nanofluids. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 49, 101715	4.7	1
72	Experimental investigation on the performance of hybrid Fe ₃ O ₄ coated MWCNT/Water nanofluid as a coolant of a Plate heat exchanger. <i>International Journal of Thermal Sciences</i> , 2022 , 171, 107249	4.1	8
71	Thermal entropy and exergy efficiency analyses of nanodiamond/water nanofluid flow in a plate heat exchanger. <i>Diamond and Related Materials</i> , 2021 , 120, 108648	3.5	4
70	Thermophysical properties of water, water and ethylene glycol mixture-based nanodiamond+Fe ₃ O ₄ hybrid nanofluids: An experimental assessment and application of data-driven approaches. <i>Journal of Molecular Liquids</i> , 2021 , 117944	6	6
69	Heat Transfer and Second Law Analysis of Ethylene Glycol-Based Ternary Hybrid Nanofluid Under Laminar Flow. <i>Journal of Thermal Science and Engineering Applications</i> , 2021 , 13,	1.9	16
68	Thermosyphon solar water heating system with Cu/water nanofluid and wire coil configurations: Efficiency, energy, economic, environmental, and heat transfer study. <i>Environmental Progress and Sustainable Energy</i> , 2021 , 40, e13648	2.5	0
67	Thermophysical properties using ND/water nanofluids: An experimental study, ANFIS-based model and optimization. <i>Journal of Molecular Liquids</i> , 2021 , 330, 115659	6	22
66	A Review on the Use of Hybrid Nanofluid in a Solar Flat Plate and Parabolic Trough Collectors and Its Enhanced Collector Thermal Efficiency. <i>Journal of Nanofluids</i> , 2021 , 10, 147-171	2.2	2
65	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. <i>Physics Reports</i> , 2021 , 946, 1-1	27.7	75
64	Entropy generation and exergy efficiency analysis of ethylene glycol-water based nanodiamond+Fe ₃ O ₄ hybrid nanofluids in a circular tube. <i>Powder Technology</i> , 2021 , 380, 430-442	5.2	26
63	Heat transfer, entropy generation, economic and environmental analyses of linear fresnel reflector using novel rGO-Co ₃ O ₄ hybrid nanofluids. <i>Renewable Energy</i> , 2021 , 165, 420-437	8.1	67
62	Experimental analysis of exergy efficiency and entropy generation of diamond/water nanofluids flow in a thermosyphon flat plate solar collector. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 105057	5.8	12
61	Experimental investigation of thermo-physical properties, heat transfer, pumping power, entropy generation, and exergy efficiency of nanodiamond+Fe ₃ O ₄ /60:40% water-ethylene glycol hybrid nanofluid flow in a tube. <i>Thermal Science and Engineering Progress</i> , 2021 , 21, 100799	3.6	34
60	Optimizing density, dynamic viscosity, thermal conductivity and specific heat of a hybrid nanofluid obtained experimentally via ANFIS-based model and modern optimization. <i>Journal of Molecular Liquids</i> , 2021 , 321, 114287	6	35
59	Efficiency analysis of thermosyphon solar flat plate collector with low mass concentrations of ND+Co ₃ O ₄ hybrid nanofluids: an experimental study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 959-972	4.1	12

58	Thermosyphon Flat Plate Collector with Nanodiamond-Water Nanofluids: Properties, Friction Factor, Heat Transfer, Thermal Efficiency, and Cost Analysis. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 7211-7226	2.5	2
57	Experimental study on heat transfer, friction factor, entropy and exergy efficiency analyses of a corrugated plate heat exchanger using Ni/water nanofluids. <i>International Journal of Thermal Sciences</i> , 2021 , 165, 106935	4.1	20
56	Second law of thermodynamic analysis of 40:60% propylene glycol and water mixture based nanodiamond nanofluid under transition flow. <i>Diamond and Related Materials</i> , 2021 , 117, 108480	3.5	2
55	Synthesis, stability, thermophysical properties and AI approach for predictive modelling of Fe ₃ O ₄ coated MWCNT hybrid nanofluids. <i>Journal of Molecular Liquids</i> , 2021 , 340, 117291	6	21
54	Thermal performance, embodied energy and environmental CO ₂ emissions analyses for double pipe U-bend heat exchanger working with MWCNT/water nanofluid. <i>International Journal of Thermal Sciences</i> , 2021 , 169, 107094	4.1	5
53	Experimental investigation of thermal performance characteristics of sintered copper wick and grooved heat pipes: A comparative study. <i>Journal of Central South University</i> , 2021 , 28, 3507-3520	2.1	2
52	Energy, efficiency, economic impact, and heat transfer aspects of solar flat plate collector with Al ₂ O ₃ nanofluids and wire coil with core rod inserts. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 40, 100772	4.7	23
51	Preparation, characterization, stability, and thermal conductivity of rGO-Fe ₃ O ₄ -TiO ₂ hybrid nanofluid: An experimental study. <i>Powder Technology</i> , 2020 , 372, 235-245	5.2	56
50	Efficiency, energy and economic analysis of twisted tape inserts in a thermosyphon solar flat plate collector with Cu nanofluids. <i>Renewable Energy Focus</i> , 2020 , 35, 10-31	5.4	13
49	Augmentation of Heat Transfer of High Prandtl Number Fe ₃ O ₄ /vacuum pump oil nanofluids flow in a tube with twisted tape inserts in laminar flow. <i>Heat and Mass Transfer</i> , 2020 , 56, 3111-3125	2.2	1
48	Properties, heat transfer, energy efficiency and environmental emissions analysis of flat plate solar collector using nanodiamond nanofluids. <i>Diamond and Related Materials</i> , 2020 , 110, 108115	3.5	27
47	Heat transfer and effectiveness experimentally-based analysis of wire coil with core-rod inserted in Fe ₃ O ₄ /water nanofluid flow in a double pipe U-bend heat exchanger. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 134, 405-419	4.9	22
46	Heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube with longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 121, 390-401	4.9	24
45	Experimental investigation of Al ₂ O ₃ /water nanofluids on the effectiveness of solar flat-plate collectors with and without twisted tape inserts. <i>Renewable Energy</i> , 2018 , 119, 820-833	8.1	91
44	Turbulent heat transfer and friction factor of nanodiamond-nickel hybrid nanofluids flow in a tube: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 223-234	4.9	47
43	Effectiveness analysis of solar flat plate collector with Al ₂ O ₃ water nanofluids and with longitudinal strip inserts. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 422-435	4.9	52
42	Graphene oxide induces cytotoxicity and oxidative stress in bluegill sunfish cells. <i>Journal of Applied Toxicology</i> , 2018 , 38, 504-513	4.1	21
41	Experimental heat transfer, friction factor and effectiveness analysis of Fe ₃ O ₄ nanofluid flow in a horizontal plain tube with return bend and wire coil inserts. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 440-453	4.9	44

40	Experimental investigation of the thermal transport properties of graphene oxide/Co ₃ O ₄ hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 84, 1-10	5.8	88
39	Biocompatibility and biotoxicity of in-situ synthesized carboxylated nanodiamond-cobalt oxide nanocomposite. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 879-888	9.1	7
38	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. <i>Experimental Thermal and Fluid Science</i> , 2017 , 85, 331-343	3	27
37	Heat transfer, friction factor and effectiveness analysis of Fe ₃ O ₄ /water nanofluid flow in a double pipe heat exchanger with return bend. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 81, 155-163	5.8	61
36	Hybrid nanofluids preparation, thermal properties, heat transfer and friction factor [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 185-198	16.2	281
35	Thermal conductivity and viscosity of water based nanodiamond (ND) nanofluids: An experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 245-255	5.8	76
34	Thermal conductivity and viscosity of hybrid nanofluids prepared with magnetic nanodiamond-cobalt oxide (ND-Co ₃ O ₄) nanocomposite. <i>Case Studies in Thermal Engineering</i> , 2016 , 7, 66-77	5.6	79
33	Nanodiamond-Fe ₃ O ₄ nanofluids: Preparation and measurement of viscosity, electrical and thermal conductivities. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 73, 62-74	5.8	116
32	Enhanced thermal properties of nanodiamond nanofluids. <i>Chemical Physics Letters</i> , 2016 , 644, 99-110	2.5	19
31	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. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 100, 691-703	4.9	47
30	Experimental thermal conductivity and viscosity of nanodiamond-based propylene glycol and water mixtures. <i>Diamond and Related Materials</i> , 2016 , 69, 49-60	3.5	39
29	Experimental study of heat transfer and friction factor of Al ₂ O ₃ nanofluid in U-tube heat exchanger with helical tape inserts. <i>Experimental Thermal and Fluid Science</i> , 2015 , 62, 141-150	3	55
28	Heat Transfer Enhancement of Low Volume Concentration of Carbon Nanotube-Fe ₃ O ₄ /Water Hybrid Nanofluids in a Tube With Twisted Tape Inserts Under Turbulent Flow. <i>Journal of Thermal Science and Engineering Applications</i> , 2015 , 7,	1.9	46
27	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. <i>Journal of Nanofluids</i> , 2015 , 4, 293-301	2.2	7
26	Enhanced thermal conductivity and viscosity of nanodiamond-nickel nanocomposite nanofluids. <i>Scientific Reports</i> , 2014 , 4, 4039	4.9	107
25	Enhanced heat transfer and friction factor of MWCNT/Fe ₃ O ₄ /water hybrid nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 52, 73-83	5.8	345
24	Comparative study on thermal performance of twisted tape and wire coil inserts in turbulent flow using CuO/water nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2014 , 57, 65-76	3	73
23	Experimental investigations in heat transfer and friction factor of magnetic Ni nanofluid flowing in a tube. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 70, 224-234	4.9	56

22	Thermal conductivity and viscosity of stabilized ethylene glycol and water mixture Al ₂ O ₃ nanofluids for heat transfer applications: An experimental study. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 56, 86-95	5.8	172
21	Numerical validation of experimental heat transfer coefficient with SiO ₂ nanofluid flowing in a tube with twisted tape inserts. <i>Applied Thermal Engineering</i> , 2014 , 73, 296-306	5.8	56
20	Electrical conductivity enhancement of nanodiamond-Bi ₂ Se ₃ (ND-Bi) nanocomposite based magnetic nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2014 , 57, 1-7	5.8	31
19	Experimental investigation of heat transfer and friction factor with water-propylene glycol based CuO nanofluid in a tube with twisted tape inserts. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 46, 13-21	5.8	41
18	Thermal conductivity of ethylene glycol and water mixture based Fe ₃ O ₄ nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 49, 17-24	5.8	127
17	Empirical and theoretical correlations on viscosity of nanofluids: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 25, 670-686	16.2	148
16	Experimental thermal conductivity of ethylene glycol and water mixture based low volume concentration of Al ₂ O ₃ and CuO nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 41, 41-46	5.8	193
15	Convective heat transfer and friction factor correlations of nanofluid in a tube and with inserts: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 20, 23-35	16.2	101
14	Investigation of thermal conductivity and viscosity of Fe ₃ O ₄ nanofluid for heat transfer applications. <i>International Communications in Heat and Mass Transfer</i> , 2013 , 44, 7-14	5.8	253
13	Viscosity of low volume concentrations of magnetic Fe ₃ O ₄ nanoparticles dispersed in ethylene glycol and water mixture. <i>Chemical Physics Letters</i> , 2012 , 554, 236-242	2.5	99
12	Experimental investigation of forced convection heat transfer and friction factor in a tube with Fe ₃ O ₄ magnetic nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2012 , 37, 65-71	3	159
11	Effect of full length twisted tape inserts on heat transfer and friction factor enhancement with Fe ₃ O ₄ magnetic nanofluid inside a plain tube: An experimental study. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 2761-2768	4.9	76
10	Experimental investigations on thermal conductivity of water and Al ₂ O ₃ nanofluids at low concentrations. <i>International Journal of Nanoparticles</i> , 2012 , 5, 300	0.4	3
9	Estimation of Annual Solar Radiation from measured temperatures by using Temperature-based (TB) approach in different cities in India. <i>Sustainable Cities and Society</i> , 2011 , 1, 187-194	10.1	8
8	Turbulent heat transfer and friction factor of Al ₂ O ₃ Nanofluid in circular tube with twisted tape inserts. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1409-1416	4.9	191
7	Heat transfer enhancements of low volume concentration Al ₂ O ₃ nanofluid and with longitudinal strip inserts in a circular tube. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4280-4286	4.9	70
6	Estimation of heat transfer coefficient and friction factor in the transition flow with low volume concentration of Al ₂ O ₃ nanofluid flowing in a circular tube and with twisted tape insert. <i>International Communications in Heat and Mass Transfer</i> , 2009 , 36, 503-507	5.8	181
5	Turbulent forced convection of Al ₂ O ₃ nanofluid in a circular tube with tape inserts at low volume concentration. <i>International Journal of Nano and Biomaterials</i> , 2009 , 2, 60	0.2	3

4	Thermal conductivity enhancement of nanoparticles in distilled water. <i>International Journal of Nanoparticles</i> , 2008 , 1, 66	0.4	49
3	Experimental Investigation of Heat Transfer and Friction Factor Characteristics in a Circular Tube with Longitudinal Strip Inserts. <i>Journal of Enhanced Heat Transfer</i> , 2008 , 15, 325-333	1.7	7
2	The Combined Effect of Al ₂ O ₃ Nanofluid and Coiled Wire Inserts in a Flat-Plate Solar Collector on Heat Transfer, Thermal Efficiency and Environmental CO ₂ Characteristics. <i>Arabian Journal for Science and Engineering</i> , 1	2.5	2
1	Thermal entropy generation and exergy efficiency analyses of coiled wire inserted nanodiamond + Fe ₃ O ₄ /water hybrid nanofluid in a tube. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	0