

# Suresh Sivan

## List of Publications by Year in descending order

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168  
papers

8,397  
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53660

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53109

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170  
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170  
docs citations

170  
times ranked

4955  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Al <sub>2</sub> O <sub>3</sub> -Cu/water hybrid nanofluids using two step method and its thermo physical properties. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 388, 41-48.	2.3	746
2	Effect of Al <sub>2</sub> O <sub>3</sub> -Cu/water hybrid nanofluid in heat transfer. Experimental Thermal and Fluid Science, 2012, 38, 54-60.	1.5	722
3	Experimental investigations and theoretical determination of thermal conductivity and viscosity of Al <sub>2</sub> O <sub>3</sub> /water nanofluid. Experimental Thermal and Fluid Science, 2010, 34, 210-216.	1.5	624
4	Experimental studies on heat transfer and friction factor characteristics of Al <sub>2</sub> O <sub>3</sub> /water nanofluid in a circular pipe under laminar flow with wire coil inserts. Experimental Thermal and Fluid Science, 2010, 34, 122-130.	1.5	207
5	Passive cooling of standalone flat PV module with cotton wick structures. Energy Conversion and Management, 2013, 71, 43-50.	4.4	207
6	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.	2.9	203
7	A Review on the Mechanisms of Heat Transport in Nanofluids. Heat Transfer Engineering, 2009, 30, 1136-1150.	1.2	170
8	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.	1.5	162
9	Convective performance of CuO/water nanofluid in an electronic heat sink. Experimental Thermal and Fluid Science, 2012, 40, 57-63.	1.5	157
10	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.	3.0	156
11	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.	8.2	150
12	Turbulent Heat Transfer and Pressure Drop in Tube Fitted with Square-cut Twisted Tape. Chinese Journal of Chemical Engineering, 2010, 18, 609-617.	1.7	135
13	Experimental study of enhanced heat transfer by addition of CuO nanoparticle. Heat and Mass Transfer, 2012, 48, 965-978.	1.2	125
14	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.	3.0	111
15	Use of Al <sub>2</sub> O <sub>3</sub> -Cu/Water Hybrid Nanofluid in an Electronic Heat Sink. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 1600-1607.	1.4	110
16	Pool boiling heat transfer enhancement using vertically aligned carbon nanotube coatings on a copper substrate. Applied Thermal Engineering, 2016, 99, 61-71.	3.0	110
17	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.	1.5	103
18	Issues, comparisons, turbine selections and applications – An overview in organic Rankine cycle. Energy Conversion and Management, 2018, 166, 474-488.	4.4	98

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19	Energy and economic analysis of Vacuum Insulation Panels (VIPs) used in non-domestic buildings. Applied Energy, 2017, 188, 1-8.	5.1	92
20	Turbulent Heat Transfer and Pressure Drop Characteristics of Dilute Water Based Al <sub>2</sub> O <sub>3</sub> -Cu Hybrid Nanofluids. Journal of Nanoscience and Nanotechnology, 2014, 14, 2563-2572.	0.9	91
21	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.	3.0	91
22	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.	1.8	90
23	Performance analysis of cylindrical heat pipe using nanofluids – An experimental study. International Journal of Multiphase Flow, 2015, 72, 188-197.	1.6	89
24	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.	2.9	87
25	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.	4.4	85
26	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.	1.7	85
27	Myo-inositol based nano-PCM for solar thermal energy storage. Applied Thermal Engineering, 2017, 110, 564-572.	3.0	83
28	Review on Nanofluids Theoretical Thermal Conductivity Models. Engineering Journal, 2015, 19, 67-83.	0.5	81
29	Evaluation of solar thermal system configurations for thermoelectric generator applications: A critical review. Solar Energy, 2019, 188, 111-142.	2.9	79
30	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.	1.5	77
31	Comparative study on thermal performance of helical screw tape inserts in laminar flow using Al <sub>2</sub> O <sub>3</sub> /water and CuO/water nanofluids. Superlattices and Microstructures, 2011, 49, 608-622.	1.4	73
32	Effect of diameter of metal nanowires on pool boiling heat transfer with FC-72. Applied Surface Science, 2017, 423, 509-520.	3.1	73
33	A comparison of thermal characteristics of Al <sub>2</sub> O <sub>3</sub> /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.	1.5	70
34	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.	2.7	70
35	Erosion wear behaviour of plasma sprayed NiCrSiB/Al <sub>2</sub> O <sub>3</sub> composite coating. International Journal of Refractory Metals and Hard Materials, 2015, 52, 209-218.	1.7	70
36	Heat transfer characteristics in latent heat storage system using paraffin wax. Journal of Mechanical Science and Technology, 2012, 26, 959-965.	0.7	66

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37	Optimization and erosion wear response of NiCrSiB/WC-Co HVOF coating using Taguchi method. <i>Ceramics International</i> , 2016, 42, 1094-1104.	2.3	66
38	Experimental studies on heat transfer and friction factor characteristics of Al <sub>2</sub> O <sub>3</sub> /water nanofluid under turbulent flow with spiraled rod inserts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2012, 53, 24-30.	1.8	65
39	Flow boiling heat transfer enhancement using carbon nanotube coatings. <i>Applied Thermal Engineering</i> , 2014, 65, 166-175.	3.0	60
40	Heat Transfer Study of Water-based Nanofluids Containing Titanium Oxide Nanoparticles. <i>Materials Today: Proceedings</i> , 2015, 2, 3648-3655.	0.9	58
41	Recent developments in thermo-physical property enhancement and applications of solid-solid phase change materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3023-3049.	2.0	56
42	Synthesis, Characterisation of Al <sub>2</sub> O <sub>3</sub> -Cu Nano Composite Powder and Water Based Nanofluids. <i>Advanced Materials Research</i> , 0, 328-330, 1560-1567.	0.3	54
43	Experimental study on thermal and chemical stability of pentaerythritol blended with low melting alloy as possible PCM for latent heat storage. <i>Experimental Thermal and Fluid Science</i> , 2017, 88, 73-87.	1.5	53
44	Experimental investigation of solar reversible power generation in Thermoelectric Generator (TEG) using thermal energy storage. <i>Energy for Sustainable Development</i> , 2019, 48, 107-114.	2.0	53
45	Modified active solar distillation system employing directly absorbing Therminol 55-Al <sub>2</sub> O <sub>3</sub> nano heat transfer fluid and Fresnel lens concentrator. <i>Desalination</i> , 2019, 457, 32-38.	4.0	50
46	Thermal performance of micro-encapsulated PCM with LMA thermal percolation in TES based heat sink application. <i>Energy Conversion and Management</i> , 2019, 185, 75-86.	4.4	48
47	Pentaerythritol with alumina nano additives for thermal energy storage applications. <i>Journal of Energy Storage</i> , 2017, 13, 359-377.	3.9	47
48	Experimental heat transfer analysis of macro packed neopentylglycol with CuO nano additives for building cooling applications. <i>Journal of Energy Storage</i> , 2018, 17, 1-10.	3.9	47
49	New Analytical Models to Investigate Thermal Conductivity of Nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 533-538.	0.9	44
50	Study of thermo-physical properties and cycling stability of d-Mannitol-copper oxide nanocomposites as phase change materials. <i>Journal of Energy Storage</i> , 2018, 15, 245-255.	3.9	44
51	Directly absorbing Therminol-Al <sub>2</sub> O <sub>3</sub> nano heat transfer fluid for linear solar concentrating collectors. <i>Solar Energy</i> , 2016, 137, 134-142.	2.9	43
52	Flow boiling heat transfer enhancement on copper surface using Fe doped Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> composite coatings. <i>Applied Surface Science</i> , 2015, 334, 102-109.	3.1	42
53	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. <i>Chemical Engineering Communications</i> , 2008, 195, 977-987.	1.5	41
54	Experimental Studies on Heat Transfer and Friction Factor Characteristics of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluid in a Circular Pipe Under Transition Flow With Wire Coil Inserts. <i>Heat Transfer Engineering</i> , 2011, 32, 485-496.	1.2	41

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55	Experimental investigation on convective heat transfer and friction factor in a helically coiled tube with Al <sub>2</sub> O <sub>3</sub> /water nanofluid. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 239-245.	0.7	41
56	Experimental studies on heat transfer and friction factor characteristics of CuO/water nanofluid under laminar flow in a helically dimpled tube. <i>Heat and Mass Transfer</i> , 2012, 48, 683-694.	1.2	40
57	Experimental study on heat transfer performance of neopentyl glycol/CuO composite solid-solid PCM in TES based heat sink. <i>Engineering Science and Technology, an International Journal</i> , 2018, 21, 1086-1094.	2.0	39
58	Elucidating the mechanisms behind the boiling heat transfer enhancement using nano-structured surface coatings. <i>Applied Thermal Engineering</i> , 2018, 137, 868-891.	3.0	37
59	Thermal performance of nano-enriched form-stable PCM implanted in a pin finned wall-less heat sink for thermal management application. <i>Energy Conversion and Management</i> , 2020, 226, 113466.	4.4	37
60	HEAT TRANSFER IN TUBES FITTED WITH TRAPEZOIDAL-CUT AND PLAIN TWISTED TAPE INSERTS. <i>Chemical Engineering Communications</i> , 2011, 198, 886-904.	1.5	36
61	Heat transfer enhancement and pressure drop analysis in a helically coiled tube using Al <sub>2</sub> O <sub>3</sub> / water nanofluid. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 1841-1847.	0.7	36
62	Effects of Al <sub>2</sub> O <sub>3</sub> , CuO and TiO <sub>2</sub> nanoparticles on thermal, phase transition and crystallization properties of solid-solid phase change material,. <i>Mechanics of Materials</i> , 2019, 128, 64-88.	1.7	36
63	Experimental investigation on PEM fuel cell using serpentine with tapered flow channels. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 15642-15649.	3.8	36
64	An experimental investigation on flow boiling heat transfer enhancement using spray pyrolysed alumina porous coatings. <i>Applied Thermal Engineering</i> , 2014, 71, 508-518.	3.0	35
65	Experimental investigation on melting and solidification behaviour of erythritol in a vertical double spiral coil thermal energy storage system. <i>Sustainable Cities and Society</i> , 2019, 44, 253-264.	5.1	35
66	Fabrication, characterisation and heat transfer study on microencapsulation of nano-enhanced phase change material. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 133, 12-23.	1.8	34
67	Theoretical and experimental evaluation of thermal interface materials and other influencing parameters for thermoelectric generator system. <i>Renewable Energy</i> , 2019, 134, 25-43.	4.3	34
68	Heat Transfer in a Tube Fitted with Vertical and Horizontal Wing-Cut Twisted Tapes. <i>Experimental Heat Transfer</i> , 2012, 25, 30-47.	2.3	32
69	Experimental investigation on heat transfer effect of conical strip inserts in a circular tube under laminar flow. <i>Frontiers in Energy</i> , 2016, 10, 136-142.	1.2	32
70	A review on the role of laser textured surfaces on boiling heat transfer. <i>Applied Thermal Engineering</i> , 2020, 174, 115274.	3.0	32
71	Limits for thermal conductivity of nanofluids. <i>Thermal Science</i> , 2010, 14, 65-71.	0.5	32
72	Influence of fin configurations in the heat transfer effectiveness of Solid solid PCM based thermal control module for satellite avionics: Numerical simulations. <i>Journal of Energy Storage</i> , 2020, 29, 101332.	3.9	31

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73	Preparation, characterisation and energy storage performance study on 1-Decanol-Expanded graphite composite PCM for air-conditioning cold storage system. <i>International Journal of Refrigeration</i> , 2021, 123, 91-101.	1.8	31
74	An Experimental Investigation of Wavy and Straight Minichannel Heat Sinks Using Water and Nanofluids. <i>Journal of Thermal Science and Engineering Applications</i> , 2015, 7, .	0.8	30
75	Investigations into nanofluids as direct solar radiation collectors. <i>Solar Energy</i> , 2017, 147, 426-431.	2.9	29
76	Multi-walled carbon nanotube laden with D-Mannitol as phase change material: Characterization and experimental investigation. <i>Advanced Powder Technology</i> , 2018, 29, 3183-3191.	2.0	29
77	Improvement in thermal hydraulic performance by using continuous V and W-Shaped rib turbulators in gas turbine blade cooling application. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100857.	2.8	29
78	Experimental study on the thermal performance of nano enhanced pentaerythritol in IC engine exhaust heat recovery application. <i>Applied Thermal Engineering</i> , 2018, 137, 461-474.	3.0	28
79	Comparative study of heat transfer and friction characteristics of water-based Alumina-copper and Alumina-CNT hybrid nanofluids in laminar flow through pipes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 243-253.	2.0	28
80	Experimental investigation of the effect of heat sink orientation on subcooled flow boiling performance in a rectangular microgap channel. <i>International Journal of Heat and Mass Transfer</i> , 2018, 120, 1341-1357.	2.5	27
81	Experimental investigation on nanoalloy enhanced layered perovskite PCM tamped in a tapered triangular heat sink for satellite avionics thermal management. <i>International Journal of Thermal Sciences</i> , 2021, 167, 107007.	2.6	27
82	Effect of nano-gallium capsules on thermal energy storage characteristics of manganese organometallic SS-PCM. <i>Thermochimica Acta</i> , 2019, 680, 178341.	1.2	26
83	Experimental investigation on the energy storage/discharge performance of xylitol in a compact spiral coil heat exchanger. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106633.	2.6	25
84	Experiments to Explore the Mechanisms of Heat Transfer in Nanocrystalline Alumina/Water Nanofluid under Laminar and Turbulent Flow Conditions. <i>Experimental Heat Transfer</i> , 2011, 24, 234-256.	2.3	24
85	Experimental Study of Preparation, Characterisation and Thermal Behaviour of Water-Based Nanofluids Containing Titanium Oxide Nanoparticles. <i>Applied Mechanics and Materials</i> , 0, 766-767, 348-354.	0.2	23
86	The effect of heating area orientation on flow boiling performance in microchannels heat sink under subcooled condition. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 276-293.	2.5	23
87	Liquid metal gallium laden organic phase change material for energy storage: An experimental study. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2469-2483.	3.8	22
88	Study on performance enhancement factors in turbulent flow of CNT/water nanofluid through a tube fitted with helical screw louvered rod inserts. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 127, 103-110.	1.8	22
89	Impact of Thermal Interface Materials for Thermoelectric Generator Systems. <i>Journal of Electronic Materials</i> , 2018, 47, 5763-5772.	1.0	22
90	Wetting transition in laser-fabricated hierarchical surface structures and its impact on condensation heat transfer characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 886-896.	2.5	22

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91	Convective heat transfer studies on helically corrugated tubes with spiraled rod inserts using TiO <sub>2</sub> /DI water nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 849-864.	2.0	21
92	Role of inter-nanowire distance in metal nanowires on pool boiling heat transfer characteristics. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 218-230.	5.0	20
93	Microencapsulation of nitrate salt for solar thermal energy storage- synthesis, characterisation and heat transfer study. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110308.	3.0	20
94	Effect of surfactant addition on hydrophilicity of ZnO-Al <sub>2</sub> O <sub>3</sub> composite and enhancement of flow boiling heat transfer. <i>Experimental Thermal and Fluid Science</i> , 2016, 70, 325-334.	1.5	19
95	Manganese-based layered perovskite solid-solid phase change material: Synthesis, characterization and thermal stability study. <i>Mechanics of Materials</i> , 2019, 135, 88-97.	1.7	19
96	An experimental study of heat transfer and pressure drop characteristics of divergent wavy minichannels using nanofluids. <i>Heat and Mass Transfer</i> , 2017, 53, 959-971.	1.2	18
97	An experimental investigation on heat transfer enhancement in the laminar flow of water/TiO <sub>2</sub> nanofluid through a tube heat exchanger fitted with modified butterfly inserts. <i>Heat and Mass Transfer</i> , 2018, 54, 813-829.	1.2	18
98	Spatial orientation effects on flow boiling performances in open microchannels heat sink configuration under a wide range of mass fluxes. <i>Experimental Thermal and Fluid Science</i> , 2018, 99, 392-406.	1.5	18
99	Life cycle assessment of nanoalloy enhanced layered perovskite solid-solid phase change material till 10000 thermal cycles for energy storage applications. <i>Journal of Energy Storage</i> , 2021, 35, 102220.	3.9	18
100	Evaluating the scale effects of metal nanowire coatings on the thermal performance of miniature loop heat pipe. <i>Applied Thermal Engineering</i> , 2018, 133, 727-738.	3.0	17
101	Investigating the combined effect of square microgrooves and CNT coating on condensation heat transfer. <i>Applied Surface Science</i> , 2019, 469, 50-60.	3.1	17
102	Effect of adding alumina nanoparticle in D-Mannitol for reversible solar thermoelectric power generation: An experimental study. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110781.	3.0	17
103	Graphene nanoplatelets enhanced myo-inositol for solar thermal energy storage. <i>Thermal Science and Engineering Progress</i> , 2017, 2, 1-7.	1.3	16
104	Experimental study on the thermal storage performance and non-isothermal crystallization kinetics of pentaerythritol blended with low melting metal. <i>Thermochimica Acta</i> , 2018, 662, 75-89.	1.2	16
105	Experimental charging and discharging performance of alumina enhanced pentaerythritol using a shell and tube TES system. <i>Sustainable Cities and Society</i> , 2019, 51, 101767.	5.1	15
106	Liquid Metal Gallium in Metal Inserts for Solar Thermal Energy Storage: A Novel Heat Transfer Enhancement Technique. <i>Solar Energy Materials and Solar Cells</i> , 2020, 208, 110365.	3.0	14
107	Optimization of gasoline engine emission parameters employing commercial and sucrolite-catalyst coated converter using response surface methodology. <i>International Journal of Environmental Science and Technology</i> , 2023, 20, 1725-1738.	1.8	14
108	Low melt alloy enhanced solid-liquid phase change organic sugar alcohol for solar thermal energy storage. <i>Journal of Molecular Liquids</i> , 2018, 266, 29-42.	2.3	13



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109	Investigations of effect of radial flow impeller type swirl generator fitted in an electronic heat sink and Al <sub>2</sub> O <sub>3</sub> /water nanofluid on heat transfer enhancement. Chemical Engineering and Processing: Process Intensification, 2013, 72, 103-112.	1.8	12
110	Evaluation of thermoelectric power generated through waste heat recovery from long ducts and different thermal system configurations. Energy, 2019, 185, 477-491.	4.5	12
111	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.	0.5	11
112	Experimental thermal degradation analysis of pentaerythritol with alumina nano additives for thermal energy storage application. Journal of Energy Storage, 2019, 22, 8-16.	3.9	11
113	Low melt alloy blended polyalcohol as solid-solid phase change material for energy storage: An experimental study. Applied Thermal Engineering, 2020, 175, 115362.	3.0	11
114	Investigation to Improve the Pool Boiling Heat Transfer Characteristics Using Laser-Textured Copper-Grooved Surfaces. International Journal of Photoenergy, 2020, 2020, 1-8.	1.4	11
115	Optical and Thermal Properties of Therminol 55-TiO <sub>2</sub> Nanofluids for Solar Energy Storage. International Journal of Photoenergy, 2020, 2020, 1-9.	1.4	11
116	Thermal management of polymer electrolyte membrane fuel cell with stearyl alcohol and fans combined. Journal of Energy Storage, 2021, 41, 102847.	3.9	11
117	Experimental analysis of triple fluid vapour absorption refrigeration system driven by electrical energy and engine waste heat. Thermal Science, 2019, 23, 2995-3001.	0.5	11
118	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.	2.4	10
119	Energy storage performance of pentaerythritol blended with indium in exhaust heat recovery application. Thermochemica Acta, 2019, 680, 178343.	1.2	10
120	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.	2.0	10
121	Heat Transfer Enhancement Characteristics of Al <sub>2</sub> O <sub>3</sub> /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, .	0.8	9
122	Photothermal Energy Conversion Enhancement Studies Using Low Concentration Nanofluids. Journal of Solar Energy Engineering, Transactions of the ASME, 2019, 141, .	1.1	9
123	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.	1.0	9
124	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.	3.9	9
125	HEAT TRANSFER ENHANCEMENT IN A HELICALLY COILED TUBE WITH Al <sub>2</sub> O <sub>3</sub> /WATER NANOFLUID UNDER LAMINAR FLOW CONDITION. International Journal of Nanoscience, 2012, 11, 1250029.	0.4	8
126	An experimental investigation on the effect of relative waviness on performance of minichannel heat sinks using water and nanofluids. Heat and Mass Transfer, 2022, 58, 247-262.	1.2	8



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127	Heat Transfer Performance of Al <sub>2</sub> O <sub>3</sub> /Water Nanofluids in a Mini Channel Heat Sink. Journal of Nanoscience and Nanotechnology, 2014, 14, 2368-2376.	0.9	7
128	Heat transfer and pressure drop studies of TiO <sub>2</sub> /DI water nanofluids in helically corrugated tubes using spiraled rod inserts. Heat and Mass Transfer, 2018, 54, 1301-1311.	1.2	7
129	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.	1.4	7
130	Effect of Sucrose Catalyst in the Catalytic Converter on Performance and Emission of Spark Ignition Engine. Journal of Thermal Science and Engineering Applications, 2022, 14, .	0.8	7
131	Amorphous carbon based nanofluids for direct radiative absorption in solar thermal concentrators – Experimental and computational study. Renewable Energy, 2022, 183, 651-661.	4.3	7
132	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.	0.5	6
133	Thermal Performance of Ethylene Glycol Based Nanofluids in an Electronic Heat Sink. Journal of Nanoscience and Nanotechnology, 2014, 14, 2325-2333.	0.9	6
134	Laminar Heat Transfer and Friction Factor Characteristics of Carbon Nano Tube/Water Nanofluids. Journal of Nanoscience and Nanotechnology, 2014, 14, 2400-2407.	0.9	6
135	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.	1.2	6
136	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.	2.0	6
137	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.	2.3	6
138	Experimental investigation of drying kinetics of green chilli and okra using indirect solar dryer with evaluation of dryer performance. International Journal of Ambient Energy, 2022, 43, 5284-5296.	1.4	6
139	Experimental Studies on Wire Coiled Coil Matrix Turbulators with and Without Centre Core Rod. Arabian Journal for Science and Engineering, 2013, 38, 2557-2568.	1.1	5
140	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.	0.5	5
141	Experimental study of heat transfer coefficients on red clay brick wall. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5949-5959.	2.0	5
142	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.	1.7	5
143	Determination of Heat Transport Mechanism in Aqueous Nanofluids Using Regime Diagram. Chinese Physics Letters, 2009, 26, 124401.	1.3	4
144	Binary Mixture of Solid-Solid Phase Change Material: Synthesis, Characterization and Experimental Study. Materials Science Forum, 0, 978, 407-420.	0.3	4

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145	Experimental Investigation on CNT-Enhanced Neopentyl glycol Solidâ€“Solid PCM for Applications of Thermal Control in Spatial Remote Sensing Instruments. Journal of the Indian Society of Remote Sensing, 2021, 49, 2215-2226.	1.2	4
146	Effect of vacuum insulation panel on active thermal management for electronics system exposed to thermal radiation. Thermal Science and Engineering Progress, 2021, 26, 101117.	1.3	4
147	Thermal Performance of Higher Aspect Ratio Microchannels Using TiO <sub>2</sub> -Water Nanofluids. Journal of Nanoscience and Nanotechnology, 2013, 13, 2842-2846.	0.9	3
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