Suresh Sivan

List of Publications by Citations

162 papers	6,072 citations	41 h-index	74 g-index
170 ext. papers	7,205 ext. citations	4 avg, IF	6.56 L-index

#	Paper	IF	Citations
162	Experimental investigations and theoretical determination of thermal conductivity and viscosity of Al2O3/water nanofluid. *Experimental Thermal and Fluid Science*, **2010**, 34, 210-216	3	515
161	Synthesis of Al2O3Cu/water hybrid nanofluids using two step method and its thermo physical properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2011**, 388, 41-48	5.1	506
160	Effect of Al2O3Cu/water hybrid nanofluid in heat transfer. *Experimental Thermal and Fluid Science*, **2012**, 38, 54-60	3	500
159	Experimental studies on heat transfer and friction factor characteristics of Al2O3/water nanofluid in a circular pipe under laminar flow with wire coil inserts. *Experimental Thermal and Fluid Science*, **2010**, 34, 122-130	3	169
158	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	5.8	156
157	Passive cooling of standalone flat PV module with cotton wick structures. *Energy Conversion and Management*, **2013**, 71, 43-50	10.6	150
156	A Review on the Mechanisms of Heat Transport in Nanofluids. *Heat Transfer Engineering*, **2009**, 30, 1136-1150	1.7	149
155	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	3	135
154	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	5.8	135
153	Convective performance of CuO/water nanofluid in an electronic heat sink. *Experimental Thermal and Fluid Science*, **2012**, 40, 57-63	3	131
152	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	16.2	123
151	Turbulent Heat Transfer and Pressure Drop in Tube Fitted with Square-cut Twisted Tape. *Chinese Journal of Chemical Engineering*, **2010**, 18, 609-617	3.2	110
150	Experimental study of enhanced heat transfer by addition of CuO nanoparticle. *Heat and Mass Transfer*, **2012**, 48, 965-978	2.2	95
149	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	5.8	93
148	Use of ${rm Al}_{2}{rm O}_{3}hbox{--}{rm Cu}$/Water Hybrid Nanofluid in an Electronic Heat Sink. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2012**, 2, 1600-1607	1.7	91
147	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	3	88
146	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	3.7	84

145	Pool boiling heat transfer enhancement using vertically aligned carbon nanotube coatings on a copper substrate. *Applied Thermal Engineering*, **2016**, 99, 61-71	5.8	74
144	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	10.6	72
143	Issues, comparisons, turbine selections and applications—An overview in organic Rankine cycle. *Energy Conversion and Management*, **2018**, 166, 474-488	10.6	71
142	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	3	70
141	Energy and economic analysis of Vacuum Insulation Panels (VIPs) used in non-domestic buildings. *Applied Energy*, **2017**, 188, 1-8	10.7	69
140	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	3.2	66
139	Myo-inositol based nano-PCM for solar thermal energy storage. *Applied Thermal Engineering*, **2017**, 110, 564-572	5.8	63
138	Comparative study on thermal performance of helical screw tape inserts in laminar flow using Al2O3/water and CuO/water nanofluids. *Superlattices and Microstructures*, **2011**, 49, 608-622	2.8	63
137	Review on Nanofluids Theoretical Thermal Conductivity Models. *Engineering Journal*, **2015**, 19, 67-83	1.8	63
136	Performance analysis of cylindrical heat pipe using nanofluids—An experimental study. *International Journal of Multiphase Flow*, **2015**, 72, 188-197	3.6	59
135	A comparison of thermal characteristics of Al2O3/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	3	59
134	Turbulent heat transfer and pressure drop characteristics of dilute water based Al2O3-Cu hybrid nanofluids. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2563-72	1.3	55
133	Heat transfer characteristics in latent heat storage system using paraffin wax. *Journal of Mechanical Science and Technology*, **2012**, 26, 959-965	1.6	55
132	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	5.3	54
131	Optimization and erosion wear response of NiCrSiB/WC–Co HVOF coating using Taguchi method. *Ceramics International*, **2016**, 42, 1094-1104	5.1	53
130	Heat Transfer Study of Water-based Nanofluids Containing Titanium Oxide Nanoparticles. *Materials Today: Proceedings*, **2015**, 2, 3648-3655	1.4	53
129	Experimental studies on heat transfer and friction factor characteristics of Al2O3/water nanofluid under turbulent flow with spiraled rod inserts. *Chemical Engineering and Processing: Process Intensification*, **2012**, 53, 24-30	3.7	53
128	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	5.8	52

127	Evaluation of solar thermal system configurations for thermoelectric generator applications: A critical review. *Solar Energy*, **2019**, 188, 111-142	6.8	50
126	Erosion wear behaviour of plasma sprayed NiCrSiB/Al2O3 composite coating. *International Journal of Refractory Metals and Hard Materials*, **2015**, 52, 209-218	4.1	49
125	Flow boiling heat transfer enhancement using carbon nanotube coatings. *Applied Thermal Engineering*, **2014**, 65, 166-175	5.8	45
124	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	6.8	45
123	Effect of diameter of metal nanowires on pool boiling heat transfer with FC-72. *Applied Surface Science*, **2017**, 423, 509-520	6.7	43
122	Experimental study on thermal and chemical stability of pentaerythritol blended with low melting alloy as possible PCM for latent heat storage. *Experimental Thermal and Fluid Science*, **2017**, 88, 73-87	3	42
121	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. *Chemical Engineering Communications*, **2008**, 195, 977-987	2.2	38
120	Directly absorbing Therminol-Al 2 O 3 nano heat transfer fluid for linear solar concentrating collectors. *Solar Energy*, **2016**, 137, 134-142	6.8	37
119	Experimental investigation on convective heat transfer and friction factor in a helically coiled tube with Al2O3/water nanofluid. *Journal of Mechanical Science and Technology*, **2013**, 27, 239-245	1.6	36
118	Experimental Studies on Heat Transfer and Friction Factor Characteristics of Al2O3/Water Nanofluid in a Circular Pipe Under Transition Flow With Wire Coil Inserts. *Heat Transfer Engineering*, **2011**, 32, 485-496	1.7	35
117	Synthesis, Characterisation of Al2O3-Cu Nano Composite Powder and Water Based Nanofluids. *Advanced Materials Research*, **2011**, 328-330, 1560-1567	0.5	35
116	Thermal performance of micro-encapsulated PCM with LMA thermal percolation in TES based heat sink application. *Energy Conversion and Management*, **2019**, 185, 75-86	10.6	34
115	New analytical models to investigate thermal conductivity of nanofluids. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 533-8	1.3	33
114	Experimental investigation of solar reversible power generation in Thermoelectric Generator (TEG) using thermal energy storage. *Energy for Sustainable Development*, **2019**, 48, 107-114	5.4	33
113	Modified active solar distillation system employing directly absorbing Therminol 55Al2O3 nano heat transfer fluid and Fresnel lens concentrator. *Desalination*, **2019**, 457, 32-38	10.3	32
112	Experimental studies on heat transfer and friction factor characteristics of CuO/water nanofluid under laminar flow in a helically dimpled tube. *Heat and Mass Transfer*, **2012**, 48, 683-694	2.2	32
111	Flow boiling heat transfer enhancement on copper surface using Fe doped Al2O3TiO2 composite coatings. *Applied Surface Science*, **2015**, 334, 102-109	6.7	31
110	HEAT TRANSFER IN TUBES FITTED WITH TRAPEZOIDAL-CUT AND PLAIN TWISTED TAPE INSERTS. *Chemical Engineering Communications*, **2011**, 198, 886-904	2.2	30

109	Heat transfer enhancement and pressure drop analysis in a helically coiled tube using Al2O3 / water nanofluid. *Journal of Mechanical Science and Technology*, **2014**, 28, 1841-1847	1.6	29
108	An experimental investigation on flow boiling heat transfer enhancement using spray pyrolysed alumina porous coatings. *Applied Thermal Engineering*, **2014**, 71, 508-518	5.8	28
107	Recent developments in thermo-physical property enhancement and applications of solid solid phase change materials. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 3023-3049	4.1	28
106	Pentaerythritol with alumina nano additives for thermal energy storage applications. *Journal of Energy Storage*, **2017**, 13, 359-377	7.8	27
105	Experimental investigation on heat transfer effect of conical strip inserts in a circular tube under laminar flow. *Frontiers in Energy*, **2016**, 10, 136-142	2.6	27
104	Study of thermo-physical properties and cycling stability of d -Mannitol-copper oxide nanocomposites as phase change materials. *Journal of Energy Storage*, **2018**, 15, 245-255	7.8	27
103	Investigations into nanofluids as direct solar radiation collectors. *Solar Energy*, **2017**, 147, 426-431	6.8	25
102	Experimental heat transfer analysis of macro packed neopentylglycol with CuO nano additives for building cooling applications. *Journal of Energy Storage*, **2018**, 17, 1-10	7.8	25
101	Elucidating the mechanisms behind the boiling heat transfer enhancement using nano-structured surface coatings. *Applied Thermal Engineering*, **2018**, 137, 868-891	5.8	25
100	Fabrication, characterisation and heat transfer study on microencapsulation of nano-enhanced phase change material. *Chemical Engineering and Processing: Process Intensification*, **2018**, 133, 12-23	3.7	25
99	Heat Transfer in a Tube Fitted with Vertical and Horizontal Wing-Cut Twisted Tapes. *Experimental Heat Transfer*, **2012**, 25, 30-47	2.4	24
98	Experimental study on heat transfer performance of neopentyl glycol/CuO composite solid-solid PCM in TES based heat sink **2018**, 21, 1086-1094		23
97	Limits for thermal conductivity of nanofluids. *Thermal Science*, **2010**, 14, 65-71	1.2	23
96	Experimental investigation on melting and solidification behaviour of erythritol in a vertical double spiral coil thermal energy storage system. *Sustainable Cities and Society*, **2019**, 44, 253-264	10.1	23
95	Experimental study on the thermal performance of nano enhanced pentaerythritol in IC engine exhaust heat recovery application. *Applied Thermal Engineering*, **2018**, 137, 461-474	5.8	22
94	Experimental Study of Preparation, Characterisation and Thermal Behaviour of Water-Based Nanofluids Containing Titanium Oxide Nanoparticles. *Applied Mechanics and Materials*, **2015**, 766-767, 348-354	0.3	22
93	Theoretical and experimental evaluation of thermal interface materials and other influencing parameters for thermoelectric generator system. *Renewable Energy*, **2019**, 134, 25-43	8.1	21
92	Effects of Al2O3, CuO and TiO2 nanoparticles son thermal, phase transition and crystallization properties of solid-solid phase change material,. *Mechanics of Materials*, **2019**, 128, 64-88	3.3	21

91	An Experimental Investigation of Wavy and Straight Minichannel Heat Sinks Using Water and Nanofluids. *Journal of Thermal Science and Engineering Applications*, **2015**, 7,	1.9	20
90	Experiments to Explore the Mechanisms of Heat Transfer in Nanocrystalline Alumina/Water Nanofluid under Laminar and Turbulent Flow Conditions. *Experimental Heat Transfer*, **2011**, 24, 234-256	2.4	20
89	Influence of fin configurations in the heat transfer effectiveness of Solid solid PCM based thermal control module for satellite avionics: Numerical simulations. *Journal of Energy Storage*, **2020**, 29, 101332	7.8	18
88	Experimental investigation on PEM fuel cell using serpentine with tapered flow channels. *International Journal of Hydrogen Energy*, **2020**, 45, 15642-15649	6.7	17
87	Effect of nano-gallium capsules on thermal energy storage characteristics of manganese organometallic SS-PCM. *Thermochimica Acta*, **2019**, 680, 178341	2.9	17
86	Role of inter-nanowire distance in metal nanowires on pool boiling heat transfer characteristics. *Journal of Colloid and Interface Science*, **2018**, 532, 218-230	9.3	16
85	Effect of surfactant addition on hydrophilicity of ZnO□Al2O3 composite and enhancement of flow boiling heat transfer. *Experimental Thermal and Fluid Science*, **2016**, 70, 325-334	3	15
84	Study on performance enhancement factors in turbulent flow of CNT/water nanofluid through a tube fitted with helical screw louvered rod inserts. *Chemical Engineering and Processing: Process Intensification*, **2018**, 127, 103-110	3.7	15
83	An experimental study of heat transfer and pressure drop characteristics of divergent wavy minichannels using nanofluids. *Heat and Mass Transfer*, **2017**, 53, 959-971	2.2	15
82	Convective heat transfer studies on helically corrugated tubes with spiraled rod inserts using TiO2/DI water nanofluids. *Journal of Thermal Analysis and Calorimetry*, **2019**, 137, 849-864	4.1	15
81	Experimental investigation of the effect of heat sink orientation on subcooled flow boiling performance in a rectangular microgap channel. *International Journal of Heat and Mass Transfer*, **2018**, 120, 1341-1357	4.9	14
80	Impact of Thermal Interface Materials for Thermoelectric Generator Systems. *Journal of Electronic Materials*, **2018**, 47, 5763-5772	1.9	14
79	Thermal performance of nano-enriched form-stable PCM implanted in a pin finned wall-less heat sink for thermal management application. *Energy Conversion and Management*, **2020**, 226, 113466	10.6	14
78	Preparation, characterisation and energy storage performance study on 1-Decanol-Expanded graphite composite PCM for air-conditioning cold storage system. *International Journal of Refrigeration*, **2021**, 123, 91-101	3.8	14
77	The effect of heating area orientation on flow boiling performance in microchannels heat sink under subcooled condition. *International Journal of Heat and Mass Transfer*, **2017**, 110, 276-293	4.9	13
76	Experimental study on the thermal storage performance and non-isothermal crystallization kinetics of pentaerythritol blended with low melting metal. *Thermochimica Acta*, **2018**, 662, 75-89	2.9	13
75	Wetting transition in laser-fabricated hierarchical surface structures and its impact on condensation heat transfer characteristics. *International Journal of Heat and Mass Transfer*, **2019**, 140, 886-896	4.9	12
74	Liquid metal gallium laden organic phase change material for energy storage: An experimental study. *International Journal of Hydrogen Energy*, **2018**, 43, 2469-2483	6.7	12

73	Comparative study of heat transfer and friction characteristics of water-based Alumina–copper and Alumina–CNT hybrid nanofluids in laminar flow through pipes. *Journal of Thermal Analysis and Calorimetry*, **2019**, 136, 243-253	4.1	12
72	Multi-walled carbon nanotube laden with D-Mannitol as phase change material: Characterization and experimental investigation. *Advanced Powder Technology*, **2018**, 29, 3183-3191	4.6	12
71	Graphene nanoplatelets enhanced myo-inositol for solar thermal energy storage. *Thermal Science and Engineering Progress*, **2017**, 2, 1-7	3.6	11
70	Manganese-based layered perovskite solid–solid phase change material: Synthesis, characterization and thermal stability study. *Mechanics of Materials*, **2019**, 135, 88-97	3.3	11
69	Evaluating the scale effects of metal nanowire coatings on the thermal performance of miniature loop heat pipe. *Applied Thermal Engineering*, **2018**, 133, 727-738	5.8	11
68	An experimental investigation on heat transfer enhancement in the laminar flow of water/TiO2 nanofluid through a tube heat exchanger fitted with modified butterfly inserts. *Heat and Mass Transfer*, **2018**, 54, 813-829	2.2	11
67	A review on the role of laser textured surfaces on boiling heat transfer. *Applied Thermal Engineering*, **2020**, 174, 115274	5.8	10
66	Investigations of effect of radial flow impeller type swirl generator fitted in an electronic heat sink and Al2O3/water nanofluid on heat transfer enhancement. *Chemical Engineering and Processing: Process Intensification*, **2013**, 72, 103-112	3.7	10
65	Experimental investigation on nanoalloy enhanced layered perovskite PCM tamped in a tapered triangular heat sink for satellite avionics thermal management. *International Journal of Thermal Sciences*, **2021**, 167, 107007	4.1	10
64	Investigation to Improve the Pool Boiling Heat Transfer Characteristics Using Laser-Textured Copper-Grooved Surfaces. *International Journal of Photoenergy*, **2020**, 2020, 1-8	2.1	9
63	Microencapsulation of nitrate salt for solar thermal energy storage- synthesis, characterisation and heat transfer study. *Solar Energy Materials and Solar Cells*, **2020**, 206, 110308	6.4	9
62	Life cycle assessment of nanoalloy enhanced layered perovskite solid-solid phase change material till 10000 thermal cycles for energy storage applications. *Journal of Energy Storage*, **2021**, 35, 102220	7.8	9
61	Investigating the combined effect of square microgrooves and CNT coating on condensation heat transfer. *Applied Surface Science*, **2019**, 469, 50-60	6.7	9
60	Low melt alloy blended polyalcohol as solid-solid phase change material for energy storage: An experimental study. *Applied Thermal Engineering*, **2020**, 175, 115362	5.8	8
59	Spatial orientation effects on flow boiling performances in open microchannels heat sink configuration under a wide range of mass fluxes. *Experimental Thermal and Fluid Science*, **2018**, 99, 392-406	3	8
58	Evaluation of thermoelectric power generated through waste heat recovery from long ducts and different thermal system configurations. *Energy*, **2019**, 185, 477-491	7.9	8
57	Experimental charging and discharging performance of alumina enhanced pentaerythritol using a shell and tube TES system. *Sustainable Cities and Society*, **2019**, 51, 101767	10.1	8
56	Experimental analysis of triple fluid vapour absorption refrigeration system driven by electrical energy and engine waste heat. *Thermal Science*, **2019**, 23, 2995-3001	1.2	8

55	Improvement in thermal hydraulic performance by using continuous V and W-Shaped rib turbulators in gas turbine blade cooling application. *Case Studies in Thermal Engineering*, **2021**, 24, 100857	5.6	8
54	Experimental investigation on the energy storage/discharge performance of xylitol in a compact spiral coil heat exchanger. *International Journal of Thermal Sciences*, **2021**, 159, 106633	4.1	8
53	Photothermal Energy Conversion Enhancement Studies Using Low Concentration Nanofluids. *Journal of Solar Energy Engineering, Transactions of the ASME*, **2019**, 141,	2.3	7
52	Energy storage performance of pentaerythritol blended with indium in exhaust heat recovery application. *Thermochimica Acta*, **2019**, 680, 178343	2.9	7
51	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	1.2	7
50	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	3.1	7
49	Liquid Metal Gallium in Metal Inserts for Solar Thermal Energy Storage: A Novel Heat Transfer Enhancement Technique. *Solar Energy Materials and Solar Cells*, **2020**, 208, 110365	6.4	7
48	Experimental thermal degradation analysis of pentaerythritol with alumina nano additives for thermal energy storage application. *Journal of Energy Storage*, **2019**, 22, 8-16	7.8	6
47	Heat transfer performance of Al2O3/water nanofluids in a mini channel heat sink. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2368-76	1.3	6
46	Effect of adding alumina nanoparticle in D-Mannitol for reversible solar thermoelectric power generation: An experimental study. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110781	6.4	6
45	Heat transfer and pressure drop studies of TiO2/DI water nanofluids in helically corrugated tubes using spiraled rod inserts. *Heat and Mass Transfer*, **2018**, 54, 1301-1311	2.2	6
44	Optical and Thermal Properties of Therminol 55-TiO2 Nanofluids for Solar Energy Storage. *International Journal of Photoenergy*, **2020**, 2020, 1-9	2.1	5
43	Low melt alloy enhanced solid-liquid phase change organic sugar alcohol for solar thermal energy storage. *Journal of Molecular Liquids*, **2018**, 266, 29-42	6	5
42	Experimental Studies on Wire Coiled Coil Matrix Turbulators with and Without Centre Core Rod. *Arabian Journal for Science and Engineering*, **2013**, 38, 2557-2568		5
41	Heat Transfer Enhancement Characteristics of Al2O3/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,	1.9	5
40	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	4.1	5
39	HEAT TRANSFER ENHANCEMENT IN A HELICALLY COILED TUBE WITH Al2O3/WATER NANOFLUID UNDER LAMINAR FLOW CONDITION. *International Journal of Nanoscience*, **2012**, 11, 1250029	0.6	4
38	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	4.1	4

37	Binary Mixture of Solid-Solid Phase Change Material: Synthesis, Characterization and Experimental Study. *Materials Science Forum*, **2020**, 978, 407-420	0.4	3
36	Thermal performance of ethylene glycol based nanofluids in an electronic heat sink. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2325-33	1.3	3
35	Thermal performance of higher aspect ratio microchannels using TiO2-water nanofluids. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 2842-6	1.3	3
34	Determination of Heat Transport Mechanism in Aqueous Nanofluids Using Regime Diagram. *Chinese Physics Letters*, **2009**, 26, 124401	1.8	3
33	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	1.2	3
32	Transient Flow Boiling Performance and Critical Heat Flux Evaluation of Al2O3-Water Nanofluid in Parallel Microchannels. *Journal of Nanofluids*, **2018**, 7, 1035-1044	2.2	3
31	Effect of sucrose catalyst in the catalytic converter on performance and emission of spark ignition engine. *Journal of Thermal Science and Engineering Applications*,1-25	1.9	3
30	Experimental investigation of drying kinetics of green chilli and okra using indirect solar dryer with evaluation of dryer performance. *International Journal of Ambient Energy*,1-38	2	3
29	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	2.9	3
28	Thermal management of polymer electrolyte membrane fuel cell with stearyl alcohol and fans combined. *Journal of Energy Storage*, **2021**, 41, 102847	7.8	3
27	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	7.8	3
26	Laminar heat transfer and friction factor characteristics of carbon nano tube/water nanofluids. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 2400-7	1.3	2
25	An Experimental Study of Forced Convective Fluid Flow in Divergent Minichannels Using Nanofluids. *Applied Mechanics and Materials*, **2014**, 592-594, 1418-1422	0.3	2
24	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	1.2	2
23	INVESTIGATION OF HEAT TRANSFER CHARACTERISTICS OF MGMNNI/DIW-BASED NANOFLUIDS FOR QUENCHING IN INDUSTRIAL APPLICATIONS. *Journal of Enhanced Heat Transfer*, **2015**, 22, 1-28	1.7	2
22	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	4.7	2
21	An experimental investigation on the effect of relative waviness on performance of minichannel heat sinks using water and nanofluids. *Heat and Mass Transfer*,1	2.2	2
20	Wettability Control of Copper Surface Using Picosecond Laser for Enhancing Condensation Heat Transfer. *Materials Science Forum*, **2020**, 978, 505-513	0.4	1

19	Performance analysis of an in-pond heat exchanger of a salt gradient solar pond. *Applied Solar Energy (English Translation of Geliotekhnika)*, **2014**, 50, 84-89	1.3	1
18	Enhancing performance of a radiator of electronic cooling system using Carbon Nanotube based nanofluids **2012**,		1
17	Thermal characteristics in latent heat energy storage system using paraffin wax. *International Journal of Energy Technology and Policy*, **2012**, 8, 50	1	1
16	Amorphous carbon based nanofluids for direct radiative absorption in solar thermal concentrators Experimental and computational study. *Renewable Energy*, **2022**, 183, 651-661	8.1	1
15	Effect of vacuum insulation panel on active thermal management for electronics system exposed to thermal radiation. *Thermal Science and Engineering Progress*, **2021**, 26, 101117	3.6	1
14	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	2.2	1
13	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	5.1	1
12	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	2.1	1
11	Experimental investigations of vanadium and nickel distribution while firing petcoke in a circulating fluidised bed test facility. *International Journal of Oil, Gas and Coal Technology*, **2019**, 20, 81	0.6	1
10	This study aims to optimize the engine parameters using response surface methodology to achieve fewer pollutants in the exhaust of a spark-ignition engine mounted with a commercial catalytic converter and a sucrolite-catalyst coated converter. *International Journal of Environmental Science and Technology*,1	3.3	0
9	Experimental Investigation on CNT-Enhanced Neopentyl glycol Solid Solid PCM for Applications of Thermal Control in Spatial Remote Sensing Instruments **2021**, 49, 2215-2226		0
8	Experimental study of heat transfer coefficients on red clay brick wall. *Journal of Thermal Analysis and Calorimetry*,1	4.1	0
7	Synthesis and Characterization of Nanostructured NiCrFeSiB HVOF Coating. *Transactions of the Indian Institute of Metals*, **2017**, 70, 2555-2561	1.2	
6	First Law Analysis on PCM Based Latent Heat Thermal Energy Storage System **2021**,		
5	Thermal protection by integration of vacuum insulation panel in liquid-cooled active thermal management for electronics package exposed to thermal radiation. *Journal of Thermal Science and Engineering Applications*,1-34	1.9	
4	DSC Analysis of Nano-enhanced Monobasic and Binary Solid-Solid Phase Change Materials for Thermal Storage. *Lecture Notes in Mechanical Engineering*, **2020**, 47-57	0.4	
3	Enhancing the Performance of the Standalone Rooftop SPV Module during Peak Solar Irradiance and Ambient Temperature by the Active Cooling of the Rear Surface with Spraying Water and the Front Surface with Overflowing Water. *International Journal of Photoenergy*, **2020**, 2020, 1-11	2.1	
2	Thermal analysis and energy systems. *Journal of Thermal Analysis and Calorimetry*, **2020**, 141, 2165-2167	4.1	

List of Publications

1	Identifying Optimal Nanofluid Synthesis Conditions for Applications in Solar Thermal Concentrators. *Innovative Renewable Energy*, **2022**, 123-127	0.3