

S Suresh Associate Professor Verified email at nitt.edu - <u>Homepage</u> Nanofluids Heat Transfer Phase Change Material Nanostructure Coatings

SL.NO	Title	Cited by	Year
1	Thermal performance of micro-encapsulated PCM with LMA thermal percolation in TES based heat sink application B Praveen, S Suresh Energy Conversion and Management 185, 75-86	16	2019
2	Theoretical and experimental evaluation of thermal interface materials and other influencing parameters for thermoelectric generator system K Karthick, S Suresh, H Singh, GC Joy, R Dhanuskodi Renewable Energy 134, 25-43	15	2019
3	Experimental investigation of solar reversible power generation in Thermoelectric Generator (TEG) using thermal energy storage R Karthick, K., Suresh, S., Joy, G.C., Dhanuskodi Energy for Sustainable Development 48, 107-114	15	2019
4	Modified active solar distillation system employing directly absorbing Therminol 55–Al2O3 nano heat transfer fluid and Fresnel lens concentrator M Muraleedharan, H Singh, M Udayakumar, S Suresh Desalination 457, 32-38	22	2019
5	Evaluation of solar thermal system configurations for thermoelectric generator applications: A critical review K Karthick, S Suresh, MMMD Hussain, HM Ali, CSS Kumar Solar Energy 188, 111-142	17	2019
6	Heat transfer performance of graphene nano-platelets laden micro-encapsulated PCM with polymer shell for thermal energy storage based heat sink B Praveen, S Suresh, V Pethurajan Applied Thermal Engineering 156, 237-249	17	2019
7	Effects of Al2O3, CuO and TiO2 nanoparticles son thermal, phase transition and crystallization properties of solid-solid phase change material KP Venkitaraj, S Suresh Mechanics of Materials 128, 64-88	11	2019
8	Experimental investigation on melting and solidification behaviour of erythritol in a vertical double spiral coil thermal energy storage system R Anish, V Mariappan, S Suresh Sustainable Cities and Society 44, 253-264	17	2019
9	Convective heat transfer studies on helically corrugated tubes with spiraled rod inserts using TiO ₂ /DI water nanofluids S Anbu, S Venkatachalapathy, S Suresh Journal of Thermal Analysis and Calorimetry 137 (3), 849-864	9	2019
10	Effect of nano-gallium capsules on thermal energy storage characteristics of manganese organometallic SS-PCM CR Raj, S Suresh, RR Bhavsar, VK Singh, S Reddy Thermochimica Acta 680, 178341	7	2019
11	Impact of thermal interface materials for thermoelectric generator systems K Karthick, GC Joy, S Suresh, R Dhanuskodi Journal of Electronic Materials 47 (10), 5763-5772	9	2018

Т	To 1 , 1 , 1 , 0 , 1 , 1 , 1 , 1 , 0 , 1 , 1		
	Experimental studies of water-based titanium oxide nanofluid in a circular pipe		
12	under transition flow with conical strip inserts	33	2018
12	M Arulprakasajothi, K Elangovan, U Chandrasekhar, S Suresh		
	Heat Transfer Research 49 (5)		
	Modified surfaces using seamless graphene/carbon nanotubes based nanostructures		
13	for enhancing pool boiling heat transfer	24	2018
13	GU Kumar, K Soni, S Suresh, K Ghosh, MR Thansekhar, PD Babu	24	2010
	Experimental thermal and fluid science 96, 493-506		
	Facile approach to improve solar thermal energy storage efficiency using		
14	encapsulated sugar alcohol based phase change material	23	2018
14	V Pethurajan, S Sivan, AJ Konatt, AS Reddy	23	2016
	Solar Energy Materials and Solar Cells 185, 524-535		
	Experimental study on heat transfer performance of neopentyl glycol/CuO		
1.5	composite solid-solid PCM in TES based heat sink	20	2010
15	B Praveen, S Suresh	20	2018
	Engineering science and technology, an international journal 21 (5), 1086-1094		
	Elucidating the mechanisms behind the boiling heat transfer enhancement using		
1.5	nano-structured surface coatings	20	2010
16	CSS Kumar, GU Kumar, MRM Arenales, CC Hsu, S Suresh, PH Chen	20	2018
	Applied Thermal Engineering 137, 868-891		
	Performance study of conical strip inserts in tube heat exchanger using water based		
	titanium oxide nanofluid		
17	M Arulprakasajothi, K Elangovan, U Chandrasekhar, S Suresh	54	2018
	Thermal Science 22 (1 Part B), 477-485		
	Issues, comparisons, turbine selections and applications—An overview in organic		
	Rankine cycle		
18	V Pethurajan, S Sivan, GC Joy	56	2018
	Energy Conversion and Management 166, 474-488		
	Experimental study on the thermal performance of nano enhanced pentaerythritol in		
	IC engine exhaust heat recovery application		
19	KP Venkitaraj, S Suresh, A Venugopal	14	2018
	Applied Thermal Engineering 137, 461-474		
	Fabrication, characterisation and heat transfer study on microencapsulation of nano-		
	enhanced phase change material		
20	V Pethurajan, S Sivan	13	2018
	3		
	Chemical Engineering and Processing-Process Intensification 133, 12-23 Experimental heat transfer analysis of macro packed neopentylglycol with CuO		
	nano additives for building cooling applications		
21	KP Venkitaraj, S Suresh, B Praveen, SC Nair	12	2018
	Journal of Energy Storage 17, 1-10		
	Study on performance enhancement factors in turbulent flow of CNT/water		
	nanofluid through a tube fitted with helical screw louvered rod inserts		
22	E .	11	2018
	P Rathnakumar, SM Iqbal, JJ Michael, S Suresh Chamical Engineering and Processing Process Intensification 127, 103, 110		
	Chemical Engineering and Processing-Process Intensification 127, 103-110		
	Experimental study on the thermal storage performance and non-isothermal		
23	crystallization kinetics of pentaerythritol blended with low melting metal	11	2018
	KP Venkitaraj, S Suresh		
	Thermochimica Acta 662, 75-89		
	Experimental investigation of the effect of heat sink orientation on subcooled flow		
24	boiling performance in a rectangular microgap channel	10	2018
	RA Krishnan, KR Balasubramanian, S Suresh	-0	
	International Journal of Heat and Mass Transfer 120, 1341-1357		
	Study of thermo-physical properties and cycling stability of D-Mannitol-copper		i
25	oxide nanocomposites as phase change materials	17	2018

	S Salyan, S Suresh		
	Journal of Energy Storage 15, 245-255		
	An experimental investigation on heat transfer enhancement in the laminar flow of		
	water/TiO ₂ nanofluid through a tube heat exchanger fitted with modified		
26	butterfly	10	2018
	KP Venkitaraj, S Suresh, TA Mathew, BS Bibin, J Abraham	10	2010
	Heat and Mass Transfer 54 (3), 813-829		
	Liquid metal gallium laden organic phase change material for energy storage: an		
	experimental study		
27	S Salyan, S Suresh	10	2018
	International Journal of Hydrogen Energy 43 (4), 2469-2483		
	Role of inter-nanowire distance in metal nanowires on pool boiling heat transfer		
	characteristics		
28		7	2018
	GU Kumar, S Suresh, MR Thansekhar, D Halpati		
	Journal of colloid and interface science 532, 218-230		
20	Myo-inositol based nano-PCM for solar thermal energy storage	5 2	2017
29	DK Singh, S Suresh, H Singh, BAJ Rose, S Tassou, N Anantharaman	53	2017
	Applied Thermal Engineering 110, 564-572		
	Energy and economic analysis of Vacuum Insulation Panels (VIPs) used in non-		
30	domestic buildings	50	2017
	M Alam, H Singh, S Suresh, DAG Redpath		
	Applied Energy 188, 1-8		
	The effect of heating area orientation on flow boiling performance in microchannels		
31	heat sink under subcooled condition	12	2017
31	RA Krishnan, KR Balasubramanian, S Suresh	12	2017
	International Journal of Heat and Mass Transfer 110, 276-293		
32	Pentaerythritol with alumina nano additives for thermal energy storage applications		
	KP Venkitaraj, S Suresh, B Praveen, A Venugopal, SC Nair	17	2017
	Journal of Energy Storage 13, 359-377		
	Experimental study on thermal and chemical stability of pentaerythritol blended		
33	with low melting alloy as possible PCM for latent heat storage	30	2017
33	KP Venkitaraj, S Suresh	30	2017
	Experimental Thermal and Fluid Science 88, 73-87		
	Effect of diameter of metal nanowires on pool boiling heat transfer with FC-72		
34	U Kumar, S Suresh, MR Thansekhar, D Babu	26	2017
	Applied Surface Science 423, 509-520		
	Investigations into nanofluids as direct solar radiation collectors		
35	BAJ Rose, H Singh, N Verma, S Tassou, S Suresh, N Anantharaman,	26	2017
	Solar Energy 147, 426-431		
	Graphene nanoplatelets enhanced myo-inositol for solar thermal energy storage		
36	DK Singh, S Suresh, H Singh	10	2017
	Thermal Science and Engineering Progress 2, 1-7		
	An experimental study of heat transfer and pressure drop characteristics of		
	divergent wavy minichannels using nanofluids		
37	A Dominic, J Sarangan, S Suresh, VS Devahdhanush	10	2017
	Heat and Mass Transfer 53 (3), 959-971		
	Experimental investigation on heat transfer effect of conical strip inserts in a		
	circular tube under laminar flow		
38	M Arulprakasajothi, K Elangovan, KHC Reddy, S Suresh	36	2016
	Frontiers in Energy 10 (2), 136-142 Directly observing Therminal A12O2 none best transfer fluid for linear solar		-
	Directly absorbing Therminol-Al2O3 nano heat transfer fluid for linear solar		
39	concentrating collectors	34	2016
	M Muraleedharan, H Singh, S Suresh, M Udayakumar		
	Solar Energy 137, 134-142		

40	Effect of surfactant addition on hydrophilicity of ZnO–Al2O3 composite and enhancement of flow boiling heat transfer CSS Kumar, S Suresh, AS Praveen, MCS Kumar, V Gopi Experimental Thermal and Fluid Science 70, 325-334	18	2016
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