

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Curriculum Vitae



1. Name : Dr. S. SURESH
2. Designation: Assistant Professor
3. Office Address: Department of Mechanical Engg.
National Institute of Technology
Tiruchirappalli -620 015
4. Telephone (Direct) (Optional):
Telephone :0431 250322 Extn (Optional):
Mobile (Optional): 9489066246
5. Email (Primary): suresh@nitt.edu Email (Secondary) :sureshsiva31@yahoo.com
6. Field(s) of Specialization: Heat transfer, Two phase heat transfer, Nanofluids, Solar thermal energy conversion, PCM.

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	National Institute of Technology, Trichy	April 2007	Till Date
Assistant Professor	Syed Ammal Engineering college Ramanathapuram	June 2005	April 2007
Lecturer	Mohammed Sathak Engineering College, Kilakrai	February 2000	August 2004
Design Engineer Trainee	ENSYS Technologies (I) Pvt. Ltd. Chennai, India	May 1997	July 1998

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Doctoral Degree	National Institute of Technology- Trichy	Feb-2007		Heat Transfer Augmentation studies in a Circular Tube fitted with Helical Screw Inserts

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Master's Degree	Bharathidasan University	1999	First class	Energy Engineering
Bachelor's Degree	Madurai Kamaraj University	1997	First class	Mechanical Engg.
Higher Secondary	State Board of Tamilnadu	1992	First Class	Science
SSLC	State Board of Tamilnadu	1990	First Class	

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Remote center coordinator	Institution	2012	Till date
Course coordinator (PhD)	Department	2016	Till date
Project coordinator PG)	Department	2016	Till date
Hostel warden	Institution	2015	Till date
Associate Dean(R&C)	Institution	2012	2015
TEQIP coordinator	Department	2012	Till date
DST PAC meeting Coordinator	Institution	2015	2015
Staff advisor-Festember	Institution	2013	2014
Air conditioning committee member	Institution	2007	2012
Convocation committee member	Institution	2009,2010,2011	2015
Class committee chairman	Department	2011	2013
DST PAC meeting	Institution	2012	2012

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level

(iv)	Name of the Student	Project Title	Year
1	Vineet Kumar Tiwari	Recovery of copper and lead from waste electronic printed circuit board by acid leaching	2015-16
2	Kuldeep Kumar	Effect of graphite coating on the pool boiling characteristics of micro patterned surface	2015-16
3	L Renugambal	Experimental Investigation on active solar still system using alumina therminol nanofluid	2015-16
4	Khobragade Sandeep Digamber	Preparation of erythritol-Alumina phase change composite with enhanced thermal conductivity for thermal energy storage system	2015-16
5	V.Bhargavi	Experimental Investigation on Pool Boiling Heat transfer enhancement using Carbon Nanotubes	2014-15
6	A.Chilambarasan	Experimental Investigation of Carbon dioxide sequestration using amine based Nanofluids	2014-15
7	Shamin Muth KK	Experimental Investigation on recovery of hydrocarbon liquid from E-waste by thermal pyrolysis using a fixed bed batch reactor	2014-15
8	Vishakh Gopi	Study of heat transfer enhancement in spray cooling using Fe doped Hydrophilic Titanium oxide	2014-15
9	Sathishkumar.J	Characterization and thermal performance of Myo-Inositol incorporated with nanoparticle for high temperature applications	2014-15
10	Sathishkumar.J	Experimental Investigation of Heat transfer characteristics using Dynamic mixer fitted in an electronic heat sink	2014-15

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11	Aneesh Chandran.R	Experimental Investigation on flow boiling heat transfer enhancement in minichannel using spray pyrolysed alumina porous coating	2013-14
12	Amol Jagtap	Experimental Investigation on pool boiling heat transfer using enhanced surface	2013-14
13	Vishnu.S	CFD simulation of heat transfer characteristics in thermal spray coated super-heated tubes	2013-14
14	P.Narendra	Experimental Investigation on performance analysis of Catalytic converter	2013-14
15	P.Narendra	Experimental Investigation on performance enhancement of cyclone separator using Helical screw insert	2013-14
16	S.Naren Dhass	Experimental Investigation on conductive and convective heat transfer phenomenon in nanofluids by flow visualization	2012-12
17	Bhawan Kumar Mandal	CFD analysis of the dispersion of pollutants at workplace	2012-13
18	Bhawan Kumar Mandal	CFD study of the thermal comfort of human body in indoor industrial environment	2012-13
19	S.Vishnu	Heat transfer enhancement using nanostructured porous coatings	2012-13
20	G.Vijay	Experimental Investigation on the heat transfer enhancement and pressure drop analysis using CNT/Dowtherm-A and CNT/Water nanofluids	2011-12
21	Ganesh Boni	Safe disposal of textile dye effluents by photo catalytic degradation	2010-11
22	K.Rajiv	Heat transfer enhancement using nanostructured coatings	2010-12
23	K.Rajiv	Heat transfer and pressure drop studies using Al ₂ O ₃ -Cu water nanofluids with and without wire coil inserts	2010-12
24	K.Praveen babu	Experimental Investigation on pressure drop studies on helically coiled heat exchanger with CuO water nanofluids	2010-11
25	S.Chandra sekhar	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ water nanofluids under laminar and turbulent flow with spiraled rod inserts	2009-10
26	Ganesh Boni	CFD simulation and assessment and fire safety in subway train fires	2010-11
27	K.Rajashekhar reddy	Comparison of the heat treatment process to study fly ash erosion problems on economizer coil	2009-10
28	K.P.Venkitaraj	Experimental investigation of heat transfer and friction characteristics of Al ₂ O ₃ /water nanofluids with helical screw tape inserts	2009-11

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29	L.Sandeep kumar reddy	Augmentation of outside heat transfer coefficient during condensation of stem over horizontal copper tubes	2009-10
30	CH.Narasimha Murthy	Thermal analysis of pyrotechnic mixtures by using DSc	200-08
31	Badri Hariprasad babu	Finite element crash simulations for vehicle using LS-DYNA	2006-08
32	Lanka Praveen kumar	Analysis of structural behavior of a steel concrete composite frame at elevated temperature	2007-08

(v) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Miniaturised compact solar concentrators for water desalination/purification	DST-UKIERI	2015	2017	Ongoing
Experimental investigation on heat transfer characteristics of hybrid PCM in Thermal storage system (TES) for solar applications	DST-SERI	2015	2018	Ongoing
Experimental Investigation of Heat Transfer Enhancement for Electronic Heat Sink Coated with Vertically Aligned CNT and Metal Nanowires	DST-SERB	2015	2018	Ongoing
DAE Technologies Display and dissemination facility (DTDDF)-installation and research	BARC	2016	2021	Ongoing
Sono-chemical preparation of metal nanoparticles and application of fuel cell catalyst	Indo Taiwan Programme DST (Co-PI)	2013	2015	Completed

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Use of nanofluids in liquid block with rotating twist insert for electronic cooling system	CSIR	2010	2013	Completed
Flow visualization, heat transfer and pressure drop characteristics of hybrid nanofluids	DST	2009	2012	Completed
Electrical discharge alloying of Ni-WC metal matrix composite on D-53 die steel for improved wear resistance	CSIR	2011	2014	Completed

15. Number of PhDs guided: 4

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Sujith Kumar C.S	Experimental Investigation on Flow Boiling Heat Transfer Enhancement in Minichannels Using Surface Coatings	Supervisor	2015
P. Selvakumar	Experimental Investigation on Heat Transfer and Pressure Drop Characteristics of Nanofluids in Electronic Heat Sink	Supervisor	2014
M. Chandrasekar	Heat transfer and pressure drop studies using Al ₂ O ₃ /H ₂ O nanofluids with wire coil inserts	Supervisor	2010
T. A. Daniel Sagayaraj	Experimental Study and CFD Analysis of Erosion on Carbon Steel Economizer Tubes of Power Boilers by Fly Ash Particles	Supervisor	2010

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
2-5-2016 to 10-7-2016	Use of ICT in education for online and blended learning	National	Remote centre coordinator & Participant	IIT Bombay	NIT, Tiruchirappalli
26 th Nov-06 th Dec 2013	Two- week ISTE workshop on Engineering Mechanics	National	Participant	IIT Bombay, Mumbai	
27 th May- 28 th May 2013	NRB funded National Workshop on Surface modifications of structural materials	National	Participant	Dept. of Metallurgical and Materials Engineering, NIT, Tiruchirappalli	NIT, Tiruchirappalli
11 th Dec-21 st Dec 2012	Two- week ISTE workshop on Engineering Thermodynamics in Mechanical Engineering	National	Participant	IIT Bombay, Mumbai	IIT Bombay, Mumbai
12 Dec-22, Dec 2011	Two weeks ISTE MHRD sponsored Solar Photovoltaics: Fundamental, Technologies and Applications	National	Participant	IIT Bombay, Mumbai	IIT Bombay, Mumbai
29 th Nov-10 th Dec 2011	Two- week ISTE workshop on Heat transfer	National	Participant	IIT Bombay, Mumbai	IIT Bombay, Mumbai
14 th - 24 th June 2011	Two- week ISTE workshop on Thermodynamics in Mechanical Engineering	National	Participant	IIT Bombay, Mumbai	IIT Bombay, Mumbai
20 th Jan- 21 st	Theory and Practice Advanced Techniques	National	Participant	PSG College of Technology and	PSG Colle

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January 2011	for the Characterization of Nanomaterials			PSG Institute of Advanced Studies	ge
21 st August 2010	One day Workshop on Nanomaterials	National	Participant	Dept of Mechanical Engineering, SVCE	SVCE
29 Dec -31 st 2009	International workshop on recent trends in flow visualization	National	Participant	Dept of Mechanical Engineering, IIT Roorkee	NIT, Tiruchirappalli
13 rd Dec 2008 -13 Dec	One day workshop on sustainable Technologies for future	National	Participant	Dept of Chemical Engineering, NIT, Tiruchirappalli	NIT, Tiruchirappalli
18 May-22 May 2008	AICTE sponsored course on Recent trends in advanced Manufacturing	National	Participant	Dept of Production Engineering, NIT Tiruchirappalli	NIT, Tiruchirappalli
23 rd Feb 2008	Workshop on Nanostructures and devices	National	Participant	Dept of Physics, NIT, Tiruchirappalli	NIT, Tiruchirappalli
25 th -29 th 2008	Short term course Advanced Tools and technologies for research in engineering problems	National	Participant	Dept. of Metallurgical and Materials Engineering, NIT, Tiruchirappalli	NIT, Tiruchirappalli
11 th -15 th , Feb 2008	AICTE-QIP one week course on Metallurgy and materials- Today and Tomorrow	National	Participant	Dept. of Metallurgical and Materials Engineering, NIT, Tiruchirappalli	NIT, Tiruchirappalli
Dec 10-14-Dec, 2007	Energy conservation for Manufacturing and process industries	National	Participant	Dept of Mechanical Engineering, NIT Tiruchirappalli	NIT, Tiruchirappalli
16 th -17 th Nov 2007	National workshop on burner design for Clean and Efficient combustion	National	Participant	Dept of Mechanical Engineering, IIT Madras	NIT, Tiruchirappalli
12 th -13 th Oct 2007	All India workshop on recent trends in energy management	National	Participant	Dept of Mechanical Engineering, NIT Tiruchirappalli	NIT, Tiruchirappalli
17 th	Two Day workshop	National	Participant	Under TEQIP	NIT,

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-18 th Sep 2007	on computational fluid dynamics			joint activity with NIT Warangal and Dept of Mathematics, NIT Tiruchirappalli	Tiruc hirapp alli
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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/
Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
TEQIP Course on Utilisation techniques of renewable energy sources	National	6 th to 9 th 2016	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli
Short term course on Applications of Nanotechnology	National	31 st Oct 2014, 01 st Nov 2014	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli
Short term course on Application of CFD in Mechanical Engineering	National	8 th Oct 2014-9 th Oct 2014	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli
Two- week ISTE workshop on Fluid Mechanics	National	20 th May 2014- 30 th May 2014	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli
Two days International workshop on Applications of CFD in Heat transfer and Fluid Flow	National	9 th Jan 2014- 10 th Jan 2014	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli
Short term course on application of Nanotechnology in Mechanical Engineering	National	18 th Dec 2013- 21 st Dec 2013	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli
Two- week ISTE workshop on Computational Fluid dynamics	National	12 th June 2012- 22 st June	Organizer	Dept of Mechanical Engineering, NIT

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		2012		Tiruchirappalli
Two- week ISTE workshop on Heat transfer	National	29 th Nov 2011-10 th Dec 2011	Organizer	Dept of Mechanical Engineering, NIT Tiruchirappalli

18. Invited Talks delivered

Topic	Date	Inviting Organization
Air Compressor	29-11-2016	AAML College of Engineering,, Tanjore.
Green NanoTechnology in Materials Engineering and Energy Application	15-12-2015	College of Engineering Adoor, Kerala

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

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21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Harjit Singh, Suresh S	Energy and economic analysis of Vacuum Insulation Panels (VIPs) used in non-domestic buildings	Journal of Applied Energy	Accepted		2016	
A Dominic, J Sarangan, S Suresh, VS Devahdhanush	An experimental study of heat transfer and pressure drop characteristics of divergent wavy minichannels using nanofluids	Heat and Mass Transfer-Springer	In Press	In Press	2016	
SR Chitra, S Sendhilnathan, S Suresh	Investigation of heat transfer characteristics of MgMnNi/DIW-based nanofluids for quenching in industrial applications	Journal of Enhanced Heat Transfer	22 (1) 2016	1-8	2016	
M Arulprakasajothi, K Elangovan, KHC Reddy, S Suresh	Heat Transfer Study of Water-based Nanofluids Containing Titanium Oxide Nanoparticles	Materials Today	Proceedings 2 (4),	3648-3655	2016	
M Arulprakasajothi, K Elangovan, KHC Reddy, S Suresh	Experimental investigation on heat transfer effect of conical strip inserts in a circular tube under laminar flow	Frontiers in Energy,	2016	1-7	2016	
Dharmendra M,	Pool boiling heat	Applied	99	61-71	2016	

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Sivan Suresh, Sujith Kumar C.S., Qiaoqin Yang	transfer enhancement using vertically aligned CNT coating on a copper substrate	Thermal Engineering				
AS Praveen, J Sarangan, S Suresh, BH Channabasappa	Optimization and erosion wear response of NiCrSiB/WC-Co HVOF coating using Taguchi method	Ceramics International	42 (1), 2016	1094-1104	2016	
CSS Kumar, S Suresh, AS Praveen, MCS Kumar, V Gopi	Effect of surfactant addition on hydrophilicity of ZnO-Al ₂ O ₃ composite and enhancement of flow boiling heat transfer	Experimental Thermal and Fluid Science	70, 2016	325-334	2016	
AyyappanSusila Praveen, J Sarangan, S Suresh, J Siva Subramanian	Erosion wear behaviour of plasma sprayed NiCrSiB/Al ₂ O ₃ composite coating	International Journal of Refractory Metals and Hard Materials	52, 2015	209-218	2015	
A Dominic, J Sarangan, S Suresh, VS DevahDhanush	An Experimental Investigation of Wavy and Straight Minichannel Heat Sinks Using Water and Nanofluids	Journal of Thermal Science and Engineering Applications	7(3), 2015	031012	2015	
M Satheeshkumar, MR Thansekhar, C Anbumeenakshi, S Suresh	Effect of Geometrical Parameters on Flow Mal-Distribution in a Wavy Microchannel	Applied Mechanics and Materials	813 2015	674-678	2015	
S Venkatachalapathy, G Kumaresan, S Suresh	Performance analysis of cylindrical heat pipe using nanofluids-An experimental study	International Journal of Multiphase Flow	72, 2015	188-197	2015	
Sujith Kumar, S Suresh, CR Aneesh, Santhosh Kumar, AS Praveen, K Raji	Flow boiling heat transfer enhancement on copper surface using Fe doped Al ₂ O ₃ -TiO ₂ composite coatings	Applied Surface Science	334, 2015	102-109	2015	
M Arulprakasajothi, K Elangovan, K	Experimental Study of Preparation,	Applied Mechanics &	Vol. 766-767, 2015	348-354	2015	

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Hemachandra Reddy, S Suresh	Characterization and Thermal Behavior of Water-based Nanofluids containing Titanium Oxide Nanoparticles	Materials				
S Kumar, S Suresh, Q Yang, CR Aneesh	An experimental investigation on flow boiling heat transfer enhancement using spray pyrolysed alumina porous coatings	Applied Thermal Engineering	71, 2014	508-518	2014	
S Kumar, S Suresh, L Yang, Q Yang, S Aravind	Flow boiling heat transfer enhancement using carbon nanotube coatings	Applied Thermal Engineering	65(1), 2014	166-175	2014	
SP Jesumathy, M Udayakumar, S Suresh, S Jegadheeswaran	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	45, 2014	1298-1304	2014	
S. Selvam, P. Thiyagarajan, S. Suresh	Experimental studies on effect of bonding the twisted tape with pins to the inner surface of the circular tube	Thermal Science	18, (4), 2014	1273-1283	2014	
A Dominic, J Sarangan, S Suresh, VS DevahDhanush	An Experimental Study of Forced Convective Fluid Flow in Divergent Minichannels Using Nanofluids	Applied Mechanics and Materials	592, 2014	1418-1422	2014	
K Karunamurthy, K Mohankumar, S Suresh	Performance analysis of an in-pond heat exchanger of a salt gradient solar pond	Applied Solar Energy	50 (2), 2014	84-89	2014	
A Dominic, J Sarangan, S Suresh, M Sai	Heat Transfer Performance of Al ₂ O ₃ /Water Nanofluids in a Mini Channel Heat Sink	J NanosciNanotechnology	14, 2014	2368-2376	2014	

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S Suresh , KP Venkitaraj, MS Hameed, J Sarangan	Turbulent Heat Transfer and Pressure Drop Characteristics of Dilute Water Based Al ₂ O ₃ -Cu Hybrid Nanofluids	J NanosciNanotechnology	14, 2014	2563-2572	2014	
P Selvakumar, S Suresh	Thermal Performance of Ethylene Glycol Based Nanofluids in an Electronic Heat Sink	J NanosciNanotechnology	14(3), 2014	2325-2333	2014	
P Rathnakumar, K Mayilsamy, S Suresh , P Murugesan	Laminar Heat Transfer and Friction Factor Characteristics of Carbon Nano Tube/Water Nanofluids	J NanosciNanotechnology	14, 2014	2400-2407	2014	
PCM Kumar, J Kumar, S Suresh	Experimental investigation on convective heat transfer and pressure drop in a helically coiled tube with Al ₂ O ₃ /water nanofluid	Journal of Mechanical Science and Technology	28 (5), 2014	1841-1847	2014	
P Selvakumar, S Suresh , S Salyan	Investigations of effect of radial flow impeller type swirl generator fitted in an electronic heat sink and Al ₂ O ₃ /water nanofluid on heat transfer enhancement	Chemical Engineering and Processing: Process Intensification	72, 2013	103-112	2013	
S Selvam, PR Thiyagarajan, S Suresh	Experimental Studies on Wire Coiled Coil Matrix Turbulators with and Without Centre Core Rod	Arabian Journal for Science and Engineering	38, 2013	2557-2568	213	
M Chandrasekar, S Suresh , T Senthilkumar	Passive cooling of standalone flat PV module with cotton wick structures	Energy Conversion and Management	71, 2013	43-50	2013	
DRS Raghuraman,	Thermal	Journal of	13(4),	2842-	2013	

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PK Nagarajan, S Suresh	Performance of Higher Aspect Ratio Microchannels Using TiO ₂ -Water Nanofluids	Nanoscience and Nanotechnology	2013	2846		
P Selvaraj, J Sarangan, S Suresh	CFD analysis on heat transfer and friction factor characteristics of a turbulent flow for internally grooved tubes	Thermal Science	17, (4), 2013	1125-1137	2013	
P Rathnakumar, K Mayilsamy, S Suresh , P Murugesan	Comparison of Heat Transfer and Friction Factor Characteristics of Carbon Nanotubes Based Nanofluids in a Circular Tube Fitted with Helical Screw Inserts with Spacers	Journal of Nanofluids	2 (4), 2013	274-282	2013	
M Chandrasekar, S Suresh , T Senthilkumar	Passive cooling of standalone flat PV module with cotton wick structures	Energy Conversion and Management	71, 2013	43-50	2013	
P Rathnakumar, K Mayilsamy, S Suresh , P Murugesan	Experiments On Turbulent Heat Transfer And Friction Factor In Reaction With Carbon Nanotube Based Nanofluids	International Journal of Mechanical and Materials Engineering	8 (2), 2013	116 to 126	2013	
K Karunamurthy, KMM Kumar, S Suresh	Enhancement of Heat Transfer in Pilot Simulated Solar Ponds using Modified Tube Inserts	European Journal of Scientific Research	91 (1), 2012	165-173	2012	
N Kannadasan, K Ramanathan, S Suresh	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	42, 2012	64-70	2012	
P Selvakumar, S	Use of/Water Hybrid	Components,	2(10),	1600 -	2012	

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Suresh	Nanofluid in an Electronic Heat Sink	Packaging and Manufacturing Technology, IEEE Transactions	2012	1607		
K Karunamurthy, K. M. Mohankumar, S Suresh	Use of CuO nano-material for the improvement of thermal conductivity and performance of low temperature energy storage system of solar pond	Digest Journal of Nanomaterials & Biostructures	7(4), 2012	1833-1841	2012	
M Chandrasekar, S Suresh , T Senthilkumar	Mechanisms proposed through experimental investigations on thermophysical properties and forced convective heat transfer characteristics of various nanofluids—A review	Renewable and Sustainable Energy Reviews	16 (6), 2012	3917-3938	2012	
P Selvakumar, S Suresh	Convective performance of CuO/water nanofluid in an electronic heat sink	Experimental Thermal and Fluid Science	40, 2012	57-63	2012	
S Jesumathy, M Udayakumar, S Suresh	Experimental study of enhanced heat transfer by addition of CuO nanoparticle	Heat and Mass Transfer	48 (6), 2012	965-978	2012	
S Suresh , KP Venkitaraj, P Selvakumar, M Chandrasekar	A comparison of thermal characteristics of Al ₂ O ₃ /water and CuO/water nanofluids in transition flow through a straight circular duct fitted with helical screw tape inserts	Experimental Thermal and Fluid Science	39, 2012	37-44	2012	
S Suresh , KP Venkitaraj, P Selvakumar, M	Effect of Al ₂ O ₃ -Cu/water hybrid nanofluid in heat	Experimental Thermal and	38, 2012	54-60	2012	

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Chandrasekar	transfer	Fluid Science				
S Suresh , M Chandrasekar, P Selvakumar	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	48 (4), 2012	683-694	2012	
S Suresh , P Selvakumar, M Chandrasekar, VS Raman	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ /water nanofluid under turbulent flow with spiraled rod inserts	Chemical Engineering and Processing: Process Intensification	53, 2012	24-30	2012	
SP Jesumathy, M Udayakumar, S Suresh	Heat transfer characteristics in latent heat storage system using paraffin wax	Journal of mechanical science and technology	26 (3), 2012	959-965	2012	
PCM Kumar, J Kumar, S Suresh , KP Babu	Heat Transfer Enhancement in a Helically Coiled Tube with Al ₂ O ₃ /WATER Nanofluid Under Laminar Flow Condition	International Journal of Nanoscience	11(05) 2012	-	2012	
M Raja, RM Arunachalam, S Suresh	Experimental studies on heat transfer of alumina/water nanofluid in a shell and tube heat exchanger with wire coil insert	International Journal of Mechanical and Materials Engineering	7 (1), 2012	16-23	2012	
P Murugesan, K Mayilsamy, S Suresh	Heat Transfer in a Tube Fitted with Vertical and Horizontal Wing-Cut Twisted Tapes	Experimental Heat Transfer	25 (1), 2012	30-47	2012	
S Selvam, P Thiyagarajan, S Suresh	Effect of wire coiled coil matrix turbulators with and without bonding on the wall of the test	Thermal Science	16 (4), 2012	1151-1164	2012	

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	section of concentric tube heat exchanger					
S Suresh, M Chandrasekar, P Selvakumar	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ /water nanofluid under laminar flow with spiraled rod inserts	International Journal of Nanoparticles	5 (1), 2012	37-55	2012	
SP Jesumathy, M Udayakumar, S Suresh	Thermal characteristics in latent heat energy storage system using paraffin wax	International Journal of Energy Technology and Policy	8 (1), 2012	50-64	2012	
V Mariappan, M Udayakumar, PL Shrestha, S Suresh	Thermodynamic Analysis Of R134a–Dmac Vapor Absorption Refrigeration (Var) stem	International Journal Of Computational Engineering Research	2, 2012		2012	
PC Mukesh Kumar, J Kumar, S Suresh	Heat transfer and friction factor studies in helically coiled tube using Al ₂ O ₃ /water Nanofluid	European Journal of Scientific Research	82 (2), 012	161-172	2012	
M. Chandrasekar, S. Suresh	Measurement of Thermal Conductivity And Viscosity of Al ₂ O ₃ /Water Nanofluid to Assess Its Merit as Enhanced Coolant	Nano Trends: A Journal of Nanotechnology and Its Applications	12, 2012	11–27	2012	
Mukesh Kumar .P.C,Kumar.J. Suresh .S. Praveen babu .K	Experimental study on parallel and counter flow configuration of a shell and helically coiled tube heat exchanger using Al ₂ O ₃ / water nanofluid	Materials and Environmental Sciences	3(4), 2012	766-775	2012	
P. C. Mukesh Kumar, J. Kumar, S. Suresh	Review on nanofluid theoretical viscosity Models	International Journal of Engineering	1(2), 2012	pp.182-188	2012	

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		Innovation & Research,				
S. Selvam, PR. Thiyagarajan, S. Suresh	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	16(4), 2012	Pages: 1151- 1164	2012	
S Suresh , KP Venkataraj, P Selvakumar, M Chandrasekar	Synthesis of Al ₂ O ₃ -Cu/water hybrid nanofluids using two step method and its thermo physical properties	Colloids and Surfaces A: Physicochemical and Engineering Aspects	388, 2011	41-48	2011	
S Suresh , KP Venkataraj, P Selvakumar	Comparative study on thermal performance of helical screw tape inserts in laminar flow using Al ₂ O ₃ /water and CuO/water nanofluids	Superlattices and Microstructures	49(6), 2011	608-622	2011	
M Chandrasekar, S Suresh	Experiments to Explore the Mechanisms of Heat Transfer in Nanocrystalline Alumina/Water Nanofluid under Laminar and Turbulent Flow Conditions	Experimental Heat Transfer	24 (3), 2011	234-256	2011	
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P Murugesan, K Mayilsamy, S Suresh	Heat transfer in tubes fitted with trapezoidal-cut and plain twisted tape inserts	Chemical Engineering Communications	198 (7), 2011	886-904	2011	
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P Murugesan, K Mayilsamy, S Suresh	Turbulent heat transfer and pressure drop in tube fitted with square-cut twisted tape	Chinese Journal of Chemical Engineering	18(4), 2010	609-617	2010	
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M Chandrasekar, S Suresh , A Chandra Bose	Experimental investigations and theoretical determination of thermal conductivity and viscosity of Al ₂ O ₃ /water nanofluid	Experimental Thermal and Fluid Science	34 (2), 2010	210-216	2010	
Mukesh Kumar .P.C., Kumar .J., Suresh.S	Theoretical model to determine the Thermal conductivity of nanofluids	International Journal of Engineering Science and Technology	2, 2010	2846-2852	2010	
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P Sivashanmugam, S Suresh	Experimental studies on heat transfer and	Applied Thermal	27 (8), 2007	1311-1319	2007	

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	friction factor characteristics of turbulent flow through a circular tube fitted with regularly spaced helical screw-tape inserts	Engineering				
P Sivashanmugam, S Suresh	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	31 (4), 2007	301-308	2007	
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs

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S. Suresh M. Chandrasekar	Book chapter: Formulation and thermo- physical property of Nanofluid	NOVA Science publishers	May 2013	ISBN: 978- 1-62618- 165-6
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