Curriculum Vitae



Dr. J. Hemalatha is a professor in the Department of Physics, National Institute of Technology, Tiruchirappalli, India. She received her Master's degree in Physics in April 1994 from Thiagarajar College, Madurai and she was the first rank holder and the recipient of the best student award in M.Sc degree. She received M.Phil degree with gold medal in June 1995 and Ph.D degree in December 2000 from Alagappa University, Karaikudi, India. Her Ph.D thesis work was on the ultrasonic investigations for material characterization with a main focus on quantifying the inter molecular interactions in polymeric solutions. Later, she collaborated with CONCEPT research group, University of California, Berkeley, USA, as a visiting scholar in 2007, where she got training on magneto electric multiferroic thin films, Pulsed Laser Deposition technique and Atomic force microscope (AFM). Presently, her Advanced Materials Lab in the Physics Department of NIT-T has two teams. A team of scholars is working on Multifunctional polymers, positive/negative GMR materials and novel complex oxide structures whereas the other team is working on heat transfer fluids for MEMs devices, ionic liquids, nanofluids and ferro nanofluids.

Her research expertise includes multifunctional polymers, Fabrication of GMR films and nanofibres, GMR Sensors, the operation of atomic Force microscopy, piezoelectric force microscopy (PFM), magnetic force microscopy (MFM), tunneling current studies, ferroelectric, ferromagnetic and magnetoelectric studies, complex oxide nanostructures, ferrites and the interpretation of FT-IR, TGA, UV-vis, XRD, VSM, P-E loops, AFM, PFM, MFM results, synthesis of novel nanostructures, nano fluids, ferrofluids, ionic fluids and Viscometric, Ultrasonic, rheological and thermal studies on polymer solutions/nano fluids /ferrofluids. She has several reputed international and national publications in her credit. In addition, she has taken up various administrative responsibilities such as Chairperson (Hospital), Head of Physics Department, Associate Dean (Students Welfare), Hostel Warden,

NSS Program officer, etc. She visited various countries such as The United States of America, Malaysia, Australia, Singapore, South Korea and Sri Lanka.

1. Name Dr. J. Hemalatha

2. Designation: Professor

3. Office Address: Department of Physics

National Institute of Technology,

Tiruchirappalli – 620 015

Tamilnadu, India

4. Telephone (Direct) (Optional):

Telephone: : 91-431- 2503608 Extn (Optional):

Mobile (Optional):

5. Email (Primary): hemalatha@nitt.edu

6. Field(s) of Specialization: Multifunctional materials, Magnetoelectric Multiferroic nanostructures, GMR materials and devices, flexible materials and devices, Nanofluids, Ferrofluids, Functional Polymer Nanocomposites, Complex oxide Nanostructures, Conducting polymers

7. Employment Profile

Job Title	Employer	From	То
Lecturer	Srinivasa Polytechnic Keeranur	02.08.1995	03.06.1996
Lecturer	Mepco Schlenk	02.08.2000	30.06.2001
	Engineering College Sivakasi		
Senior Lecturer	Mepco Schlenk	01.07.2001	30.03.2006
	Engineering College Sivakasi		
Lecturer	National Institute of Technology, Tiruchirappalli	03.04.2006	05. 10.2008
Assistant Professor	National Institute of Technology, Tiruchirappalli	06.10.2008	05.10.2011
Associate Professor	National Institute of Technology, Tiruchirappalli	06.10.2011	11.03.2018
Professor	National Institute of Technology, Tiruchirappalli	12.03.2018	Till date

8. Academic Qualifications:

Examination	Board / University	Year	Division/ Grade	Subjects
ASNT Level II	ASNT	Feb		NDT
Certificate	SIS Institute of Non		First	(Ultrasonic
Course	Destructive Testing Chennai	2009	87.2%	Testing)
Ph.D	Alagappa University	Dec	-	Ultrasonic Studies
	Karaikudi	2000		on polymer solutions
P.G.D.C.A	Correspondence	Dec	First	Computer
	Course Alagappa University	1996	74.3%	Applications
M.Phil	Alagappa University	June	First	Physics
	Karaikudi	1995	83.1%	
			Gold Medalist	
M.Sc	Thiagarajar College	April	First	
	Madurai	1994	82.1%	Physics
			Best Student award	Thysics
			& First Rank	
			Holder	
B.Sc	V.V.Vanniaperumal	April	First	
	College for Women,	1992	86.3%	Physics
	VirudhuNagar		Certificate of	
			Proficiency in	
			Electronics	

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То
Sub Warden	Mepco Schlenk Engineering College	2000	Dec 2001
Girls Hostel			
Faculty advisor	Mepco Schlenk Engineering College	02.08.2000	31.0.2006
Photographic Club			
Editor	Mepco Schlenk Engineering College	02.08.2000	31.0.2006
College Bulletin			
Program Officer	National Institute of Technology,	21.08.2006	30.09.2007
National Service	Trichy		
Scheme			
Associate Dean	National Institute of Technology,	24.07.2009	15.08.2010
(Students Welfare)	Trichy		
HoD, Physics	National Institute of Technology,	16.01.2018	20.01.2020
	Trichy		
Chairperson	National Institute of Technology,	02-07-2020	Till date
Hospital advisory	Trichy		

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

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

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level: 58 PG projects, 1 UG project, 1 M.Phil project

14. Details of Major R&D Projects

		Duration		Status
Title of Project	Funding Agency	From	То	Ongoing/
				Completed
Multiferroic Polymer	TEQIP –I	2008	2009	Completed
Nanocomposite structures	Network Research			
for Spintronic Memory	Project with NIT			
Devices	Calicut			
Magnetoelectric Polymer	DST-SCRB Fast-	2014	2017	Completed
Nanocomposite Structures	track Scheme for			
for Magnetic Field	Young scientist			
Sensing In Non				
Destructive Testing				

Specific electrical	ISRO, Government of	2016	2019	Completed
conductivity of kerosene	India Department of			
based fuels	Space Liquid			
	Propulsion systems			
	Centre			
Porous Nanomaterials for	Tamilnadu state	2021	2024	On going
Sensors, Magnetic Energy	council for higher			
Storage and Conversion	education			
Applications	(TANSCHE)			

15. Number of PhDs guided: 5

Name of the PhD	Title of PhD Thesis	Role(Supervisor/	Year of
Scholar		Co-Supervisor)	Award
Dr. T. Prabhakaran	Synthesis and characterization of PVDF based magnetoelectric	Supervisor	2013
	polymer nanocomposite films		
Dr. M. Nabeel Rashin	Rheological, thermal and ultrasonic studies on magnetic	Supervisor	2014
	and nonmagnetic nanofluids		
Dr. S. Divya	Synthesis and characterization of P(VDF-HFP) based	Supervisor	2020
	magnetoelectric polymer		
	nanocomposite films for magnetic		
	field sensor application		
Dr. Durga Prasad	Magnetoelectric films of	Supervisor	2021
	PVDF/Ferrite fibers: Synthesis, cauterization and energy		
	harvesting applications		
Dr. K.Anu	An Extensive analysis of	Supervisor	2022
	rheological, electrical, thermal		
	and thermoelectric properties of		
	Zn doped magnetic nanofluids for		
	magnetically tuned thermoelectric		
	applications		

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

Date	Title of	Level	of	Role	(Part	icipant/	Event Organized by	Venue
(s)	Activity	Event		Speake	er/			
		(Internati	onal/	Chairp	erson,	Paper		
		National/	'	present	er, Any	other)		
		Local)						

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
Advanced Materials: Processing and Characterization	National	2017	Convener	NIT-T
"Quality16" Technical Symposium on NDT,	National	2016	Coordinator	NIT-T
Short-Term Program on "Nanostructured Materials Processing and Characterization"	National	2014	Coordinator	NIT-T
Faculty Development Program on "Physics for Emerging Technology	National	2013	Coordinator	NIT-T
NITT FEST-2010" Symposium	National	2010	Coordinator	NIT-T
National Symposium on "Applied Electronics ELECTRON07"	National	2007	Coordinator	NIT-T
One Day Workshop on "Nanostructures and Devices"	National	2003	Coordinator	NIT-T

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No.
Member/ Honorary Member /		with date
Life Member)		
	Institute of Science &	LM30834
Life Member	Technical Education ISTE)	
Life Member	Indian Physics Association	GEN/LM/ 11931
	IPA	

Life Member	Indian	society	for	Non-	LM8450
	destruct	ive testing			

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page number s	Year	Impact Factor of the Journal (Optional)
K. Anu, J.Hemalatha	Extensive Analysis on the Thermoelectric Properties of Aqueous Zn- Doped Nickel Ferrite Nanofluids for Magnetically Tuned Thermoelectric Applications	ACS Appl. Mater. Interfaces	14	26833- 26845	2022	9.22
S. Prathipkumar J. Hemalatha	Magnetoelectric behavior and magnetic field-tuned energy storage capacity of SrFe12O19 nanofiber reinforced P(VDF-HFP) composite films	J. Magn. Magn. Mater.	555	169378	2022	2.99
Sandeep Kumar Yadav, J. Hemalatha	Electrospinning and characterization of magnetoelectric NdFeO3– PbZr0.52Ti0.48O3	Ceram. Int.	48	18415– 18424	2022	4.52

	Core Chall					
	Core-Shell					
V Any	nanofibers Synthesis and	Comom Int	48	3417-	2022	4.52
K.Anu,	Synthesis and	Ceram. Int.	48		2022	4.52
J.Hemalatha	analysis of			3425		
	structural,					
	compositional,					
	morphological,					
	magnetic,					
	electrical, and					
	surface charge					
	properties of Zn-					
	doped nickel ferrite					
D D	nanoparticles	T 3.6	500	1.6700.6	2021	2.00
P. Durga	Energy harvesting	J. Magn.	532	167986	2021	2.99
Prasad, J.	performance of	Magn. Mater.				
Hemalatha	magnetoelectric					
	poly(vinylidene					
	fluoride)/NiFe2O4					
	nanofiber films		0.7.4	1==100	2021	
P. Durga	Multifunctional	J. Alloys	854	157189	2021	5.36
Prasad, J.	films of	Compd.				
Hemalatha	poly(vinylidene					
	fluoride)/ZnFe2O4					
	nanofibers for					
	nanogenerator					
	applications					
K. Anu and J.	Magnetically tuned	Nanotechnol	32	025707	2021	3.87
Hemalatha	thermoelectric	ogy				
	behavior of Zn-					
	doped magnetite					
	nanofluids					
R. Kirithiga,	Investigation of	J. Mol. Liq	317	113944	2020	6.16
J. Hemalatha,	thermophysical					
	properties of					
	aqueous					
	magnesium ferrite					
	nanofluids					
S.	Investigation of	J. Phys.	124	25	2020	4.12
Prathipkumar	Direct and Indirect	Chem. C				
J. Hemalatha	Magnetoelectric					
	Couplings in					
	P(VDF-					
	HFP)/CoFe2O4					

	T	Τ	ı	Т	1	1
	Nanofiber					
	Composite Films					
S. Prathipkumar J. Hemalatha	Magnetoelectric response and tunneling magnetoresistance behavior of flexible P(VDF-H FP)/Cobalt ferrite nanofiber composite films	Ceram. Int.	46.	258- 269	2020	4.52
P. Durga Prasad, J. Hemalatha	Dielectric and energy storage density studies in electrospun fiber mats of Polyvinylidene fluoride (PVDF)/Zinc ferrite (ZnFe2O4) multiferroic composite	Phys. B: Condens. Matter	573	1-6.	2019	2.43
S. Divya, K. JeyadheepanJ . Hemalatha	Magnetoelectric P(VDF-HFP)- CoFe2O4 films and their giant magnetoresistance properties,	J. Magn. Magn. Mater.	(15)	165689	2019	2.99
P. Durga Prasad, J. Hemalatha	Enhanced dielectric and ferroelectric properties of cobalt ferrite (CoFe2O4) fiber embedded polyvinylidene fluoride (PVDF) multiferroic composite films	Mater. Res. Express	6	094007	2019	1.68
P. Durga Prasad, J. Hemalatha	Enhanced magnetic properties of highly crystalline cobalt ferrite fibers and their application as gas sensors,	J. Magn. Magn. Mater.	484	225- 233	2019	2.99

TZ A T	N	T M 1 T '	204	145	2010	C 1 C
K. Anu, J.	Magnetic and	J. Mol. Liq.	284	445-	2019	6.16
Hemalatha	electrical			453		
	conductivity					
	studies of zinc					
	doped cobalt ferrite					
	nanofluids					
K. Anu, J.	Ultrasonic and	J. Mol. Liq.,	256	213-	2018	6.16
Hemalatha	magnetic			223.		
	investigations of					
	the molecular					
	interactions in zinc					
	doped magnetite					
	Nanofluids.					
S. Divya J.	Structural and	Ferroelectrics	519	152-	2017	0.69
Hemalatha	electrical properties			156		
	of P(VDF-					
	HFP)/ZnFe2O4					
	nanocomposites,					
P. Durga	Magnetoelectric	J. Magn.	448	94-99	2018	2.99
Prasad, J.	investigations on	Magn. Mater.				
Hemalatha	poly (vinylidene					
	fluoride)/CoFe2O4					
	flexible electrospun					
	membranes					
S. Divya and	Ultrasonics—An	Eur. Polym.	88	136-	2017	4.59
J. Hemalatha	Effective Non-	J,		147	2017	1.09
3. Hemanama	invasive Tool to	,		117		
	Characterize					
	Nanofluids, Study					
	on the					
	enhancement of					
	ferroelectric β					
	•					
	phase in P(VDF-					
	HFP) films under					
	heating and poling					
T	conditions	DCC A 1	(0,000	2016	4.02
T.	Magnetoelectric	RSC Adv.	6	86880-	2016	4.03
Prabhakarana	investigations on			86888		
, J.	poly(vinylidene					
Hemalatha	fluoride)/NiFe2O4					
	flexible films					
	fabricated through					
	a solution casting					
	method,					

S. Divya, T. Shakthi, J. Hemalatha,	Synthesis and ferroelectric investigations of poly(vinylidene fluoride-co-hexafluoropropylen e)-Mg(NO3)2 films,	J. Appl. Polym. Sci	133	20	2016	3.125
T. Prabhakarana , J. Hemalatha,	Combustion synthesis and characterization of cobalt ferrite nanoparticles,	Ceram. Int	42	14113- 14120.	2016	4.52
M. Bindu, J. Janisha, J. Hemalatha, G. Unnikrishnan	Molecular interactions in silicone rubber - nano hydroxyl apatite system in solution phase probed by ultrasonic technique	J. Mol. Liq.	221	216- 223	2016	6.16
M. Nabeel Rashin, R. Govindan Kutty, J. Hemalatha	Novel Coconut Oil Based Magnetite Nanofluid as an Ecofriendly Oil Spill Remover	Ind. Eng. Chem. Res.	53 (40)	15725– 15730	2014	3.72
M Nabeel Rashin, J.Hemalatha,	A novel ultrasonic approach to determine thermal conductivity in CuO-ethylene glycol nanofluids,	J. Mol. Liq.	197	257- 262.	2014	6.16
Prabhakaran, T.; Hemalatha, J.	Flexible Films of β-Phase Poly(vinylidene fluoride)/ZnFe2O4 Polymer Nanocomposite for Magnetoelectric Device Applications,	Sci. Adv. Mater.	6	1313- 1321	2014	1.47

Prabhakaran, T.; Hemalatha, J.	Chemical control on the size and properties of nano NiFe2O4 synthesized by sol- gel autocombustion	Ceram. Int.	40	315- 3324	2014	4.52
	method T. Prabhakarana, J.					
	Hemalatha					
M. Nabeel	Synthesis and	Exp. Therm.	51	312-	2013	3.23
Rashin, J.	viscosity studies of	Fluid Sci.		318		
Hemalatha	novel ecofriendly					
	ZnO-coconut oil					
	nanofluid.					
M. Nabeel	Magnetic and	Ultrasonics	54	834-	2014	4.06
Rashin, J.	ultrasonic studies			840		
Hemalatha	on stable cobalt					
	ferrite magnetic					
	nanofluid,					
M. Nabeel	Viscosity studies	Exp. Therm.	48	67-72	2013	3.23
Rashin, J.	on novel copper	Fluid Sci.				
Hemalatha	oxide-coconut oil					
	nanofluid, M.					
	Nabeel Rashin, J.					
	Hemalatha, Exp.					
	Therm. Fluid Sci.,					
	48 (2013) 67-72.	11 6	105	5 04	2012	4.00
T.	Ferroelectric and	Mater. Chem.	137	781-	2013	4.09
Prabhakarana	magnetic studies on	Phys.		787		
, J. Hemalatha.,	unpoled Poly (vinylidine					
Hemaiama.,	Fluoride)/Fe3O4					
	magnetoelectric					
	nanocomposite					
	structures					
M. Nabeel	Magnetic and	Ultrasonics	52	1024-	2012	4.06
Rashin, J.	ultrasonic			1029		
Hemalatha	investigations on					
	magnetite					
	nanofluids					

T Prabhakaran, J Hemalatha	Negative giant magnetoresistance effect in single layered superparamagnetic polymer nanocomposite structures of poly(vinyl alcohol)— polyaniline/bismut h ferrite	Smart Mater. Struct.	21	085012	2012	3.58
T Prabhakaran, J Hemalatha	Combustion synthesis and characterization of highly crystalline single phase nickel ferrite nanoparticles	J. Alloys Compd.	509	7071- 7077	2011	5.36
Hemalatha, J., Prabhakaran, T. & Pratibha Nalini, R.	A comparative study on particle—fluid interactions in micro and nanofluids of aluminium oxide,	Microfluid Nanofluid	10	263– 270	2011	2.52
K. Geethalaksh mi, T. Prabhakaran, J. Hemalatha,	Dielectric Studies on Nano Zirconium Dioxide Synthesized through Co- Precipitation Process	Int. j. phys. math. Sci	6	4	2012	-
M. Nabeel Rashin, J. Hemalatha	Acoustic Study on the Interactions of Coconut Oil Based Copper Oxide Nanofluid.	Int. j. phys. math. Sci.	6	4	2012	-
J. Hemalatha,	A Review of: "Nanofluids: Science and Technology" by S. K. Das, S. U. S. Choi, W. Yu, and T. Pradeep,	Materials and Manufacturin g Processes	24(5)	600- 601	2009	4.61

T. Prabhakaran, J. Hemalatha, J. Hemalatha	Synthesis and characterization of magnetoelectric polymer nanocomposites A Review of: "The Physics of Solar	Inc. J Polym Sci Part B: Polym Phys Materials and Manufacturin	-	2418- 2422 735- 736	2008	4.61
	Cells, Jenny Nelson"	g Processes				
S. Kalyanasund aram, J. Hemalatha, B. Sundaresan	Acoustical method of finding the interaction parameter for polymer - Salt solution	J. Polym. Mater.	18(2)	211- 216	2008	-
S. Kalyanasund aram, J. Hemalatha, B. Sundaresan	Molecular interaction studies on polymer and polymer - Electrolyte solutions using thermoacoustical parameters, J. Polym. Mater.	J. Polym. Mater.	17(4)	375- 362	2000	-
S. Kalyanasund aram, J. Hemalatha, B. Sundaresan	Solvation study of polymers by ultrasonic method,	J. Polym. Mater.	17(2)	155- 163	2000	-
S. Kalyanasund aram, J. Hemalatha, B. Sundaresan,	Study on the viscosity of polymer solutions	J. Polym. Mater.	17(1)	91-95	2000	-
S. Kalyanasund aram, J. Hemalatha	Determination of molecular weight of polymer by ultrasonic method,	Bull. Electrochem.	15(11)	492- 496	1999	-

S. Kalyanasund aram, J. Hemalatha, B. Sundaresan	Determination of interaction parameter in aqueous poly (vinyl pyrrolidone) solution	Bull. Electrochem.,	15(11)	501- 503	1999	-
S. Kalyanasund aram, J. Hemalatha, B. Sundaresan	Acoustical and Optical Investigations on Poly(Vinylchloride) in Nitrobenzene,	Acta Acust. united Acus.	84	6	1998	0.76
S. Kalyanasund aram, J. Hemalatha.	Ultrasonic Studies on PVC in Chlorobenzene.	J. Polym. Mater.	14(4)	285- 289	1997	-
S. Kalyanasund aram, J. Hemalatha, B. Sundaresan,	Molecular Interaction Studies on Poly(Vinyl Chloride) in Nitrobenzene by Optical Method	J. Polym. Mater.	14(3)	269- 272	1997	-

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of	Title of the	Page	Conference	Venue	Year
	Abstract/ Paper	Proceedings	numbers	Theme		
P.	The structural,	AIP	030105	Nanotechnology	DAE Solid	2020
Durgaprasad,	morphological,	Conference			State Physics	
J. Hemalatha	and magnetic	Proceedings			Symposium, IIT	
	force				Jodhpur.	
	microscopy				_	
	studies of					
	highly					
	crystalline					
	cobalt ferrite					
	(CoFe ₂ O ₄)					
	fibers					
R. Kirithiga,	Experimental	AIP	030113	Nanotechnology	DAE Solid	2020
J. Hemalatha	investigation on	Conference			State Physics	
	interfacial	Proceedings			Symposium, IIT	
	properties and				Jodhpur	

	wettability of MgFe ₂ O ₄ nanofluids					
Lavanya Rathi Palvannan, J. Hemalatha,	Synthesis and characterization of PANI-CoFe ₂ O ₄ nanocomposite and its gas sensing application	AIP Conference Proceedings	030173	Nanotechnology	DAE Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology (GJUS&T), Hisar, Haryana	2019
Kirithiga, R., Hemalatha, J.	Acoustic studies of water-based hybrid magnetite- magnesium ferrite magnetic nanofluids	AIP Conference Proceedings	030132	Nanotechnology	DAE Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology (GJUS&T), Hisar, Haryana	2019
S. Prathipkumar , J. Hemalatha	Enhancement in β phase and dielectric property of P(VDF-HFP)/SrFe ₁₂ O ₁₉ nanofiber composite films	AIP Conference Proceedings	030183	Nanotechnology	DAE Solid State Physics Symposium, Guru Jambheshwar University of Science and Technology (GJUS&T), Hisar, Haryana	2019
P. Durgaprasad J. Hemalatha	Fabrication of P(VDF) fiber membranes with enhanced ferroelectricity through electrospinning	AIP Conference Proceedings	050102	Nanotechnology	DAE Solid State Physics Symposium, DAE Convention Centre Anushaktinagar, Mumbai.	2017
K. Anu, J. Hemalatha	Viscosity studies of water-based	AIP Conference Proceedings	050148	Nanotechnology	DAE Solid State Physics	2016

	magnetite nanofluids				Symposium. KIIT University	
S. Divya, G.	Preparation and	AIP	050089	Nanotechnology	DAE Solid	2015
Saipriya, J.	Characterization	Conference			State Physics	
Hemalatha	of PVP-PVA –	Proceedings			Symposium,	
	ZNO Blend				Amity	
	Polymer Nano				University UP,	
	Composite				Noida	
	Films					

(C) Books & Monographs

(C) Books & Mo	nographs			
Author(s)	Title of	Name of	Year of	ISSN/ISBN
	Book/Monograph	Publishers	Publication	Number
V.Rajendran,	Semiconductor Physics	Vikas	2003	ISBN:
J.Hemalatha,	and Optoelectronics	Publishing		812591448X,
M.Stalin Mano		House Pvt.		9788125914488
Gibson		Ltd		
J. Hemalatha	Advanced Materials	Excel India	2017	ISBN: 978- 93-
and M.C.	Processing and	Publishers,		86724-04-5
Santhosh	Characterization,			
Kumar,				
Nabeel Rashin,	Ultrasonics-an	Springer	2017	ISBN 978-3-
M. and J.	effective non-invasive	Berlin		319-50686-9
Hemalatha,	tool to characterize	Heidelberg		
	nanofluids in the book			
	Modelling,			
	Methodologies and			
	Tools for Molecular			
	and Nano-scale			
	Communications,			
T. Prabhakaran	Poly (Vinylidene	Wiley	2016	ISBN 978-3-
and J.	fluoride) Based			527-34127-6
Hemalatha	Magnetoelectric			
	Polymer			
	nanocomposite Films			
	in the book			
	Magnetoelectric			
	Polymer-Based			
	Composites			
	Fundamentals and			
	Applications			