Curriculum Vitae

Brief Profile:



Dr. N. V. Giridharan received his Ph.D. degree from Anna University, Chennai in 2001. Later in the year 2002 he joined as a postdoctoral fellow at POSTECH, South Korea for a period of one and half years. In 2004, he moved to France to work as Post-doctoral fellow in Laboratoire de Cristallochimie et Physicochimie du Solide, University of Lille, France for the period of one year. He joined National Institute of Technology, Tiruchirappalli in the year 2007 as Assistant Professor, Department of Physics and concentrated both on teaching and research. His research area is ferroelectric and multiferroics. He has received research projects from DST, NPOL-Kochi and DRDO, New Delhi

1. Name: Dr. N.V.Giridharan

2. Designation: Associate Professor

3. Office Address: Department of Physics

4. Telephone (Direct) (Optional):

Telephone: 0431-2503613

Mobile (Optional):09443689391

5. Email (Primary):giri@nitt.edu Email (2nd):nvgiri1973@gmail.com

6. Field(s) of Specialization: Ferroelectrics and Multiferroics

7. Employment Profile

Job Title	Employer	From	То
Associate Professor	National Institute of Technology, Tiruchirappalli	March 2018	Till date
Assistant Professor	National Institute of Technology, Tiruchirappalli	July 2007	March 2018
Lecturer in Physics	Vellore Institute of Technology Vellore, India	June 2005	June 2007
Post-doctoral Researcher	Laboratoire de Cristallochimie et Physicochimie du Solide, France	Jan. 2004	Dec. 2004
Post-doctoral Researcher	Pohang University of Science and Technology, Pohang, South Korea	May 2002	Oct 2003

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D. (Physics)	Anna University	2001	Degree awarded	Physics
M.Sc (Physics)	Madras University	1995	FIRST	Physics
B.Sc (Physics)	Madras University	1993	FIRST	Physics
Higher Secondary course certificate (XII)	Board of higher secondary	1990	First	Mathematics, physics, chemistry, biology
Secondary school leaving certificate (SSLC)	Board of secondary education	1988	First	Tamil, English, mathematics, science, history and geography

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	То
Co-ordinator	Department of Physics, NITT	2007	2008
M.Sc. (Laboratory)			
Co-ordinator M.Tech	Department of Physics, NITT	2011	2014
(NDT)			
Co-ordinator	National Institute of Technology,	2016	2018
I year B.Tech	Tiruchirappalli		
(Physics) course -			
Faculty Initiator	Sophisticated Instrumentation Facility,	2013	Till date
	NITT		

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	То
-	-	-	-
-	-	-	-
-	-	-	-

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
-	-	-

-	1	-
	-	-

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:
 - 1. One of the members in the curriculum design of B.Tech (Physics) course
 - 2. One of the members in the curriculum design of M.Tech (NDT) course
 - 3. Curriculum design of Ph.D. courses
- (ii) Courses taught at Postgraduate and Undergraduate levels

Post graduate level:

- 1. PH605 RADIOGRAPHIC TESTING AND RADIATION SAFETY
- 2. PH604 ADVANCE NDE TECHNIQUES II
- 3. PH663 ATOMIC AND MOLECULAR SPECTROSCOPY
- 4. PH659 GENERAL PHYSICS LABORATORY
- 5. PH685 MICRO-ELECTRO-MECHANICAL SYSTEMS

Under graduate level

- 1. PH1R11-PHYSICS-I & LABORATORY
- 2. PHIR12-PHYSICS-II &LABORATORY

(iii)Projects guided at Postgraduate level

1. M.Tech (NDT):

S.No	Title	Students name	Year of
		and Register	completion
		Number	
1.	Correlation between ultrasonic parameters,		
	microstructures with tensile properties of modified	P.Kumar Raja	May 2009
	T91(PFBR) and investigations on the HP turbine	213107005	-
	blades using phased array, radiography and image		
	enhancement techniques		
2.	The effect of radiography parameters on defect		
	delectability using microfocal and conventional X-	A.Ramu	May 2010
	ray source	213108012	-
3.	Helical guided waves for pipe inspection by		
	conventional and phased array ultrasonics	B. Narsimlu	May 2010
	•	213108015	•
4.	Residual stress assessment using eddy current	Shukur. C.A	May 2011
	testing technique	213109009	•

Fatigue properties of CFRP composite material with varied porosity: A study through NDE approach	Bojja Naresh 213109018	May 2011
Non-contact lamb wave inspection and defect sizing of GFRP composite pipe	Maheswaran M 213110016	May 2012
Visualization of lamb wave propagation in composite laminates using air-coupled ultrasonics	Vivek Madhavan 213111019	May 2013
Evaluation and Optimization of electromagnetic stirring parameters for continuously cast high carbon billet quality using ultrasonic C-scan imaging	Sheethal S 213111018	May 2013
Performance analysis and comparison of CR imaging plated with X-rays	Glisten Abraham 213110011	May 2013
Non-Destructive testing of mechanical joints	Vineeth C 213112016	May 2014
Adhesive bond quality evaluation for composite "T" joints using ultrasonics	Tadpatrikar Tejas 213112012	May 2014
Defect detection and enhancement in composite honeycomb sandwich structures for space application using infrared thermography	Anish Chandran 213113027	May 2015
Inspection of friction stir welded aluminium plates using NDT techniques	Sabarish J 213113025	May 2015
Vibration measurement of plate immersed in water using ultrasonic guided waves	Anand Balakrishnan 213114003	May 2016
Thermal diffusivity mapping of defects and in-pane thermal diffusivity measurements by infrared thermography	Azad Chandra shekhar 213114007	May 2016
Defect analysis in MIG welding of mild steel using ultrasonic NDE methods	Yamsani Ayyappa 213115014	May 2017
Analysis of Defect formation in weldments at variable weld parameters using ultrasonic technique	Ravi Teja Lingam 213115027	May 2017
Data fusion of multi-NDE techniques for enhanced detection of flaws in small diameter tubes	Ajay C 213116005	May 2018
	approach Non-contact lamb wave inspection and defect sizing of GFRP composite pipe Visualization of lamb wave propagation in composite laminates using air-coupled ultrasonics Evaluation and Optimization of electromagnetic stirring parameters for continuously cast high carbon billet quality using ultrasonic C-scan imaging Performance analysis and comparison of CR imaging plated with X-rays Non-Destructive testing of mechanical joints Adhesive bond quality evaluation for composite "T" joints using ultrasonics Defect detection and enhancement in composite honeycomb sandwich structures for space application using infrared thermography Inspection of friction stir welded aluminium plates using NDT techniques Vibration measurement of plate immersed in water using ultrasonic guided waves Thermal diffusivity mapping of defects and in-pane thermal diffusivity measurements by infrared thermography Defect analysis in MIG welding of mild steel using ultrasonic NDE methods Analysis of Defect formation in weldments at variable weld parameters using ultrasonic technique	Adhesive bond quality evaluation for composite "To joints using ultrasonics" Adhesive bond quality evaluation for composite "To joints using ultrasonics" Defect detection and enhancement in composite application using infrared thermography Inspection of friction stir welded aluminium plates using ultrasonic guided waves Vibration measurement of plate immersed in water using ultrasonic Rulder diffusivity measurements by infrared thermography Analysis of Defect formation in weldments at variable weld parameters using ultrasonic technique Maheswaran M 213110016 Vivek Madhavan 213111019 Vivek Madhavan 213111019 Vivek Madhavan 213111019 Sheethal S 213111018 Cilisten Abraham 213110011 Vineeth C 213112016 Adhesive bond quality evaluation for composite "Tadpatrikar Tejas 213112012 Defect detection and enhancement in composite honeycomb sandwich structures for space application using infrared thermography Inspection of friction stir welded aluminium plates using NDT techniques Vibration measurement of plate immersed in water using ultrasonic guided waves Vibration measurement of plate immersed in water using ultrasonic guided waves Paramani diffusivity mapping of defects and in-pane thermal diffusivity measurements by infrared thermography Defect analysis in MIG welding of mild steel using ultrasonic NDE methods Analysis of Defect formation in weldments at variable weld parameters using ultrasonic technique Ajay C

19	Characterization of stress in metallic materials using eddy current non-destructive evaluation	Vikas Khubnani 213117015	May 2019
20	Level measurement using fundamental guided wave modes L [0,1], T [0,1] and F [1,1]	Raju C 213118017	December 2019
21	Savaging of new UT-indications occurring after pre UT qualification of INCONEL cladded joints in pressure vessels	Ashokkumar T 213118006	December 2019
22	Establishing advance ultrasonic Testing procedure in thick wall Induction pressure welded (ipw)	Samarjit nath mazumder 213119017	May 2021
23	Structural health diagnosis of a Locomotive using advanced sensing Methodologies	Sudhanshu pandey 213119021	May 2021

2. M.Sc (Physics)

S.No	Title	Students name and Register Number	Year of completion
1.	Design of a digital mixer with ADAT and firewire interfaces	K. Nimitha PHA0614	May 2008
2.	Investigations on the synthesis and properties of pure and doped BiFeO ₃ system	S. Kazhugasalamoorthy 213207007	May 2009
3.	Sol-gel synthesis and characterization of Ba(Zr,Ti)O ₃ ceramic powders	M. Muneeswaran 213208017	May 2010
4.	Investigations on the synthesis and properties of pure and La-modified Bi ₄ Ti ₃ O ₁₂ ceramics	M.G. Shankar 213208018	May 2010
5.	Deposition and characterization of PZT thick films derived from hybrid sol-gel method	J.Anu Priya 213209014	May 2011
6.	Investigations on the synthesis and properties of BixLa1-xFeyMn1-yO3 system	Keerthana S.P 213209021	May 2011
7.	Investigations on the synthesis and properties of pure and Dy-modified YMnO3 system	C. Mascovani 213210009	May 2012
8.	Synthesis and characterization of BixLa1-xMnO3 ceramics	Gnana Sekaran M 213210015	May 2012

9	Synthesis and Characterization of pure and Dysubstituted Bi2O3 ceramics	D. Dayanithi 213211024	May 2013
10	Synthesis of pure and Nd modified BiFeO3 powders by co-precipitation method	Mohammed Ghouse Munavary 213211026	May 2013
11	Investigation on the synthesis and characterization of pure and gadolinium modified Bismuth ferrite	R. Rathnaprabha 213212021	May 2014
12	Synthesis and characterization of lead free Na (Bi1-xPrx)TiO3 ceramics	K. Shalini 213212010	May 2014
13	Synthesis and Characterization of Multiferroic (1-x) BiFeO3-xBaTiO3 solid solutions	S. Supraja 213213026	May 2015
14	Synthesis and Characterizayion of pure K0.5Bi0.5 TiO3 (KBT) and (1-x)K0.5Bi0.5TiO3-BiFeO3 (BFO) multiferroic ceramics	Krishnasamy 213213013	May 2015
15	Growth and Characterization of Bi0.5Ca0.5FeO3 single crystals	G. Antilen Jacob 213214017	May 2016
16	Efffect of lithium and antimony substitution on the structural, electrical and optical properties of lead free Na0.5K0.5NbO3 ceramics	Rashid A 213214022	May 2016
17	Synthesis and characterization of pure and Nickel doped Barium Titanate	Veena Balakrishnan 213215001	May 2017
18	Low temperature solution growth and characterization of Triglycine sulphate (TGS) single crystals	R J Jayapriya 213215021	May 2017
19	Synthesis and characterization of lead free piezoelectric NBT-BT-V2O5 ceramics by solid state reaction route	Midhun V K 213216019	May 2018
20	Synthesis and characterization of PVDF- CoFe ₂ O ₄ nanocomposite films	Ansu Johnson 213216001	May 2018
21	Synthesis and characterization of lead –free Na _{0.5} Bi _{0.5} TiO ₃ -BiFeO ₃ ceramics	Devapriya M S	May 2019
22	Investigations on the synthesis and characterization of lead free Na0.5Bi0.5TiO3 - SrTiO3 ceramics	Arabinda Sahoo 213218024	May 2020
23	Structural refinement analylis of binary and ternary crystalline structure	Chambru Sardar 213219003	May 2021
		<u> </u>	1

24	Structure and dielectric properties of Lead free	Sachin	May 2022
	Na0.5Bi0.5TiO3 doped with CaTiO ₃	213220020	

(iv) Other contribution(s)

14. Details of Major R&D Projects

	Funding	Dura	ation	Status
Title of Project	Agency	From	То	Ongoing/
	Agency			Completed
Realization of crack free	DST	Dec.2007	Mar. 2011	Completed
thick film PZT for the				
application to piezo				
cantile ver fabrication				
Development of PZT thick	NPOL	July 2010	Dec. 2011	Completed
films with enhanced	(DRDO)			
piezoelectric properties				
suitable for MEMS devices				
Development of PZN-PT	DRDO	July 2017	Jan 2021	Completed
Single Crystal Technology		-		_
for Naval Transducer				
Applications				

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
P. Jegatheesan	Investigations on Pb(Zr _x Ti _{1-x})O ₃	Supervisor	2013
	(PZT) films prepared by spin coating	•	
	technique for the fabrication of		
	microcantilever		
M. Muneeswaran	Investigations on the sysnthesis and	Supervisor	2015
	properties of pure and rare earth (Dy,		
	Pr and Tb) modified multiferroic		
	BiFeO ₃ nanoparticles		
Radhalayam	Investigations on the Synthesis and		
Dhanalakshmi	Photocatalytic Properties of Pure and	Supervisor	2017
	Rare- Earth (La,Nd and Ce)		
	Substituted BiFeO3 Nanostructures		
	Investigations on the Multiferroic		
K. Shalini	Propertieses of Transition Metal Ions	Supervisor	2021
	Substituted Ferroelectric		
	K _{0.5} Na _{0.5} NbO ₃ bulk ceramics		
D. Dhayanithi	Investigations on the Structure,		
	Electrical and Electro-Mechanical	Supervisor	2022
	Properties of		

	NBT: Na _{0.5} Bi _{0.5} TiO ₃ Based Ternary Solid Solutions		
D. Padmapriya	Investigations on the synthesis and properties of (1-x)BaTiO ₃ -x(TM)Fe ₂ O ₄ (TM = Co, Ni and Mg) multiferroic composites	Supervisor	2022

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

Date (s)	Title of Activity	Level of	Role	Event	Venue
Date (8)	The Of Activity	Event	(Participa	Organized by	Venue
		(International	nt/	Organized by	
		/ National/	Speaker/		
		Local)	Chairpers		
		Loculy	on, Paper		
			presenter,		
			Any		
			other)		
12/10/2007-	National workshop	Local	Participant	Department	NITT
13/10/2007	on Non-Destructive		_	of Physics,	
	Evaluation			NITT	
09/12/2007-	MEMS innovation	National	Participant	Centre for	
10/12/2007	Fest 2007			Emerging	
				Technologies	
23/02/2008	Workshop on	Local	Participant	Department	NITT
	Nanostructures and			of Physics,	
15/02/2000	Devices	T 1	D	NITT	N. T.
15/03/2008	Workshop on "X-ray	Local	Participant	Department	NITT
	diffraction Analysis			of Physics, NITT	
	(XRD) & Intellectual Property Rights			NIII	
	(IPR)"				
	(II K)				
07/07/2008	Instructional design	Local	Participant	NITTTR,	NITTTR
-12/07/2008	and delivery			Chennai	
24/07/2008-	Fifth ISSS	International	Participant	IISc	IISc
26/07/2008	International		1	Bangalore	
	conference on smart				
	materials, structures				
	and systems				
03/01/2009-	International	International	Participant	IIT-M,	IIT-M
05/01/2009	conference on			Chennai	Chennai
	MEMS				
	ICMEMS 2009				
20/02/2009-	Course on	National	participant	IIT-M,	IIT-M,
21/02/2009	Traditional and			Chennai	Chennai

	Emancia a NIDE	1		1	
	Emerging NDE				
	methods- for				
	Managers and				
10/12/2000	Engineers NDE-2009	NI-4'1	Dandialia and	ICNIT Total	NITTE
10/12/2009-	NDE-2009	National	Participant	ISNT-Trichy	NITT
12/12/2009	Wantshan on	National	Doutioinant	& NITT	NITT
14/06/2011-	Workshop on	National	Participant	ISTE	NIII
24/06/2011	Thermodynamics in			workshop	
	Mechanical			conducted by	
06/07/2011-	Engineering	National	Doutioinant	IIT Bombay School of	NIT-C
	Faculty development	National	Participant		NII-C
12/07/2011	program on Advanced			Nano	
				Science and	
	nanomaterials-			Technology, NIT-Calicut	
	Process, Characterization and			NII-Cancut	
26-28 Feb	Applications 2nd International	International	Paper	IACSIT	Singapore
2012	Conference on Key	International	presenter	IACSII	Singapore
2012	Engineering		presenter		
	Materials				
18/12/12-	4th International	International	Paper	University of	Haliday
20/12/12	Conference on Solid	International	presenter	Malaysia	inn,
20/12/12	State Science &		presenter	1viany sia	Malaca
	Technology				Malaysia
9-10 May	Workshop on	Local	Participant	NIT,	NITT
2013	Perspectives of	2000	T we the special	Tiruchirappal	1,111
	Curriculum			li	
30 June-5 th	International	International	Paper	MRS-	SUNTEC
July 2013	Conference on		presenter	Singapore	Singapore
	Materials for		1		01
	Advanced				
	Technologies				
	(ICMAT-2013)				
19-20	Workshop on	Local	Participant	Department	NITT
September	Elemental,			of Physics,	
2014	compound and phase			NIT-Trichy	
	analysis by powder				
	X-ray diffraction				
04/12/2014-	NDE2014- National	National	Participant	ISNT-Pune	Pune
06/12/14	seminar and				
	Exhibition				
28/04/2015-	Conclave on	Local	Participant	NIT, Trichy	NIT-T
29/04/2015	Academic Reforms				

^{17.} Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of	Date (s)	Role	Venue
	Event			
	(International/			
	National/			
	Local)			
National level symposium	Local	13 th March	Convener	NIT, Trichy
on Non-Destructive		2012		
Evaluation (Quality-12)				
Workshop on Advances in	National	8 th - 9 March	Convener	NIT, Trichy
Nanomaterials and Thin		2013		
films (WANT-2013)				
National level symposium	Local	19-20 March	Convener	NIT, Trichy
on Non-Destrutive		2013		
Evaluation (Quality-13)				
Short term course on	National	16-20, October	Co-	NIT, Trichy
"Optical and Ultrasonic		2013	convener	-
methods in NDE"				
National level symposium	Local	26 th March	Convener	NIT, Trichy
on Non-Destrutive		2014		
Evaluation (Quality-14)				

18. Invited Talks delivered

Торіс	Date	Inviting Organization
Optical fiber and its	3 rd November 2007	NIT, Tiruchirappalli
applications		
Sol-gel processing of	24 th January 2008	NIT, Tiruchirappalli
ferroelectric thin films		
Ferroelectrics- basics, materials,	9 th March 2013	NIT, Tiruchirappalli
properties and applications		
Nano Materials: Synthesis,	7 th August 2014	Cauvery college for women, Trichy
Properties and Applications		
Ferroelectrics and Multiferroics	11 th November	1
	2014	physics for college and university,
		Bharathidasan Univeristy
Multiferroic materials	24 th April 2015	VELTECH HIGHTECH, Chennai
Thin films and Multiferroics	13 th May 2015	Summer research training
		programme-2015, Bishop Heber
		college, Trichy
Thin films and multiferroics	21st July 2015	FDP on Advanced research in
		materials for engineering and
		technological applications, Anna
		University, Tiruchirappalli
Multiferroic materials	7 th November 2016	UGC-Human resource development
		centre, Bharathidasan University,
		Tiruchirappalli

Ferroelectrics- basics, materials,	2020	The	Gandhigram	Rural	Institute,
properties and applications		Gand	higram		

19. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No. with
Member/ Honorary Member / Life		date
Member)		
Life Member	Indian Society for	LM-8454 & 21/10/2009
	Non-Destructive	
	Testing	
Life Member	Materials Research	LMB2504 & 2015
	Society of India	

20. Academic Foreign Visits

Country	Duration of Visit	Programme			
Singapore	February 26-28, 2012	2nd International Conference on Key			
	-	Engineering Materials			
Malaysia	December 18-20, 2012	4th International Conference on Solid			
		State Science & Technology			
Singapore	30 June-5 th July 2013	International Conference on Materials for			
		Advanced Technologies (ICMAT-2013)			
Srilanka	13-18 December 2016	ICNST-2016, Colombo, Sri Lanka			

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Vol.	Page	Year	Impact
			(No.)	numbers		Factor of
						the Journal
						(Optional)
Seethal Pappachan, A	Dissolution of four-stage	Physica Scripta	97	065809	2022	
Rashid and Giridharan	to three-stage dynamic					
Nambi Venkatesan	scaling behavior with					
	stabilization of relaxor					
	character in					
	K _{0.5} B _{0.5} TiO ₃ based binary					
	system					
PM Priya Dharsini, L	Enhanced magnetoelectric	Applied Physics	128	1-10	2022	
Venkidu, GC Ancy,	coefficients in	A				
MT Rahul, K	$Na_{0.5}Bi_{0.5}TiO_3-$					
Nandakumar, D	CoFe ₂ O ₄ particulate					
Dayanithi, NV	composites prepared from					
Giridharan, B	pre-sintered constituents					
Sundarakannan						

R Rajesh, NV Giridharan	Enhanced energy storage performance and magnetocapacitance effect of polycrystalline BiFeO ₃ ceramics	Journal of the Australian Ceramic Society	58	539-548	2022	
Krupa Maria Kuruvila, D Dhayanithi, NV Giridharan	Investigation of structural and enhanced piezoelectric properties in low lead content Na _{0.5} Bi _{0.5} TiO ₃ -BaTiO ₃ -PbTiO ₃ system	Journal of Alloys and Compounds	897	163195	2022	
SV Meenakshi, R Saravanan, N Srinivasan, D Dhayanithi, Nambi Venkatesan Giridharan	Exploration of (1-x)BaTiO ₃ + xZnFe ₂ O ₄ magneto-electric ceramic composite on charge density: Structure and its characterization	Journal of Alloys and Compounds	888	161491	2021	
P Esther Rubavathi, D Dhayanithi, NV Giridharan, MT Rahul, Nandakumar Kalarikkal, B Sundarakannan	Origin of magnetic, magnetoelectric effect and the influence of reentrant ferroelectric phase on the structural and multiferroic properties of Dy ³⁺ -Fe ³⁺ co- substituted BaTiO ₃ ceramics	Journal of Magnetism and Magnetic Materials	538	168260		
A Rashid, K Shalini, NV Giridharan	Observation of Enhanced Unipolar Strain and Piezoelectric Charge Co-Efficient in K _{0.5} Na _{0.5} NbO ₃ Simultaneo usly Doped with Lithium and Antimony	Ferroelectrics	583	12-18	2021	
R Rajesh, NV Giridharan, K Ramesh Kumar, C Karthika	Effect of Mn doping on magnetodielectric properties of polycrystalline BiFeO ₃ ceramics	Journal of Alloys and Compounds	854	156981	2021	
Radhalayam Dhanalakshmi, Nambi Venkatesan Giridharan and Juliano C. Denardin	Magnetic Field-Assisted Photocatalytic Degradation of Organic Pollutants over $Bi_{1-x}R_xFeO_3$ (R = Ce, Tb; $x = 0.00, 0.05, 0.10$ and 0.15) Nanostructures	Materials	14 (15)	4079	2021	
Dhayanithi Duraisamy, Krupa Maria Kuruvila, and Giridharan Nambi Venkatesan	Phase boundary and temperature driven enhanced piezoelectric and electrostrictive strain in (1–2x) Bi _{0.5} Na _{0.5} TiO ₃ -xBaTiO ₃ -xBa _{0.7} Ca _{0.3} TiO ₃ solid solution	Journal of Applied Physics	130	144102	2021	

Padmapriya D,	Study of room-temperature	Applied Physics	127	293	2021	
Dhayanithi D, Rahul	magnetoelectric coupling	A				
M.T, Nandakumar	in $(1-x)$ BaTiO3 and					
Kalarikkal,	(x)NiFe2O4 multiferroic					
Giridharan N V	composites					
Muniyandi	Realization of structural	Scientific	11	2265	2021	
Muneeswaran, Ali	transformation for the	Reports				
Akbari-Fakhrabadi,	enhancement of magnetic	•				
Miguel Angel Gracia-	and magneto capacitance					
Pinilla, Juliano C.	effect in BiFeO3–					
Denardin, Nambi	CoFe2O4 ceramics for					
Venkatesan	energy storage application					
Giridharan	8, 44, 46, 41					
Shahnaz Kossar	Ferroelectric polarization	Superlattices	148	106726	2020	
R.Amiruddin, Asif	induced memristive	and				
Rasool,	behavior in bismuth ferrite	Microstructures				
N.V.Giridharan,	(BiFeO3) based memory	1.110105010000105				
D.Dhayanithi,	devices					
M.C.Santhosh Kumar						
D Padmapriya, D	Composition-dependent	Bulletin of	43	276	2020	
Dhayanithi, A Rashid,	structural, electrical,	Materials	15	270	2020	
M T Rahul,	magnetic and	science				
Nandakumar	magnetoelectric properties	Science				
Kalarikkal, M	of					
Muneeswaran, N V	(1-x)BaTiO3-xCoFe2O4					
Giridharan	particulate composites					
P. Senthilkumar, D.	Built-in Electric Field	ACS	7 (14)	12032-	2019	
Arockiya Jency, T.	Assisted Photocatalytic	Sustainable	/ (14)	12043	2017	
Kavinkumar, D.	Dye Degradation and	Chemistry &		12043		
Dhayanithi, S.	Photo-electrochemical	Engineering				
Dhanuskodi, M.	Water Splitting of	Linguicering				
Umadevi, S.	Ferroelectric Ce Doped					
Manivannan, N. V.	BaTiO ₃ Nanoassemblies					
Giridharan, V.	Da I 103 Nations settiones					
Thiagarajan, M.						
Sriramkumar, and K.						
Jothivenkatachalam						
P.Esther Rubavathi,	Impact of Da/Ti ratio or	Vacuum	159	374-378	2019	
*	Impact of Ba/Ti ratio on	v acuum	139	314-318	2019	
M. Veera Gajendra Babu, B. Bagyalakshmi,	the magnetic properties of BaTiO3 ceramics					
	Da 1105 ceraniics					
L.Venkidu,						
D.Dhayanithi,						
N.V.Giridharan,						
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Kim, Beon Sung Jung,	BiFeO ₃					
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Pranab Parimal Photovoltaic and photo- apacitance effects in Chinthakuntla, Dhayanithi Duraisamy, Giridharan Nambi Venkatesan, Subramma nian Venkatachalam, and Pattukkannu		$K_{0.5} Na_{0.5}Nb_{0.975}Co_{0.025}O_3 1$					
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Biswas, Thirmal capacitance effects in ferroelectric BiFeO ₃ thin Dhayanithi Duraisamy, Giridharan Nambi Venkatesan, Subramma nian Venkatachalam, and Pattukkannu	Pranab Parimal	Photovoltaic and photo-	Applied Physics	110	192906	2017	
Chinthakuntla, ferroelectric BiFeO ₃ thin film Duraisamy, Giridharan Nambi Venkatesan, Subramma nian Venkatachalam, and Pattukkannu	Biswas, Thirmal	_	Letters				
Dhayanithi Duraisamy, Giridharan Nambi Venkatesan, Subramma nian Venkatachalam, and Pattukkannu	The state of the s	<u> </u>					
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N.V. Giridharan, M. Subramanian and R. Jayavel	Enhancement of polarization in bismuth titanate thin films comodified by La and Nd for non-volatile memory applications	Appl. Phys. A	83	123-126	2006
A.Rolle, R.N. Vannier, N.V.Giridharan and F. Abraham	Structural and electrochemical characterization of new oxide ion conductors for oxygen generating systems and fuel cells	Solid state ionics	176	2095- 2103	2005
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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
Radhalayam Dhanalakshmi, M. Muneeswaran and N. V. Giridharan	Effect of synthesis conditions on the photocatalytic property of multiferroic BiFeO3 towards the degradation of phenol red	AIP Conf. Proc.	130016	Solid state physics	Amity University UP, India	2016
K. Shalini, M. Muneeswaran and N. V. Giridharan	Structural and electrical properties of ferroelectric Na _{0.5} (Bi _{1-x} Pr _x) _{0.5} TiO3 (x=0.00,0.10) ceramics synthesized by sol-gel method	AIP Conf. Proc.	140018	Solid state physics	Amity University UP, India	2016
S. Abdul Khader, N. V. Giridharan, Arka Chaudhuri and T. Sankarappa	Structural, dielectric and magnetic studies of (x) Mg0.2Cu0.3Zn0.5Fe2O4 + (1-x) Ba0.8Zr0.2TiO3 magnetoelectric composites	AIP Conf. Proc.	020562	Condensed Matter and Applied physics	Govt. Engineering College, Bikaner, Rajasthan	2016
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P. Senthilkumar, S. Dhanuskodi, M. Muneeswaran and N. V. Giridharan	Multiferroism in hydrothermally prepared Ce:BaTiO3 nanoparticles	AIP Conf. Proc.	050017	Solid state physics	Amity University UP, India	2016
K. Aravinth, M. Muneeswaran, G. Anandha Babu, N. V. Giridharan and P. Ramasamy	Structure and electrical properties of 0.80 Na0.5 Bi0.5 TiO3-0.16 K0.5 Bi0.5 TiO3-0.04 BaTiO3 lead-free piezoelectric ceramics	AIP Conf. Proc.	100005	Solid state physics	Amity University UP, India	2016
S. Abdul Khader, M. Muneeswaran, N. V. Giridharan and T. Sankarappa	Structural, dielectric and ferroelectric studies of (x) Mg0.25Cu0.25Zn0.5Fe2O4 + (1-x) BaTiO3 magnetoelectric nano-composites	AIP Conf. Proc.	020529	Condensed Matter and Applied physics	Govt. Engineering College, Bikaner, Rajasthan	2016

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Radhalayam Dhanalakshmi, M. Muneeswaran, Pradeep Reddy Vanga, M. Ashok and N. V. Giridharan	Photocatalytic activity of BiFeO3 nanoparticles synthesized through hydrothermal method	AIP Conf. Proc.	130014	Solid state Physics	VIT Univeristy	2015
M. Muneeswaran, S. Bhuvaneswari, G. Senguttuvan and N. V. Giridharan	Structural, electrical and magnetic properties of Bi0.90La0.10Fe0.90Co0.10O3 ceramics	AIP Conf. Proc.	1778	Solid state Physics	Thapar University, Patiala	2014
V. S. Sasanka Durvasula, Vivek Madhavan, Janardhan Padiyar M, N. V. Giridharan and Krishnan Balasubramaniam	Visualization studies of Lamb wave propagation and interactions with anomalies in composite laminates using air- coupled ultrasonics	AIP Conf. Proc.	1091	NDE	Baltimore, Maryland, USA	2014
M. Muneeswaran, C. Mascovani and N. V. Giridharan	Structural and multiferroic properties of YMnO3 ceramics synthesized by co-precipitation method	AIP Conf. Proc.	1270	Solid state physics	IIT-B, Mumbai	2013
S. P. Keerthana, M. Muneeswaran, P. Jegatheesan and N. V. Giridharan	Structural and magneto-electric properties of Bi0.4La0.6Fe0.8Mn0.2O3 ceramics	AIP Conf. Proc.	1333	Solid state physics	SRM Univeristy	2012
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