Brief Curriculum Vitae



Dr. S. Manivannan received Ph.D., from Bharathidasan University, Tiruchirappalli, India in the year 2006. He completed postdoctoral research in the Department of Information Display & Advanced Display Research Center, Kyung Hee University, Seoul, South Korea. His research area of interest includes on carbon nanomaterials (CNT, graphene oxides, carbon dots), gas sensors, transparent films and devices, organic and semi-organic nonlinear optical (NLO) materials and polymer nanocomposites. He is serving as a faculty in Department of Physics, National Institute of Technology, Tiruchirappalli from 2008.

To his credit, Dr. Manivannan published about 69 papers in peer reviewed international journals, more than 76 papers in national/international conference proceedings/abstracts, successfully completed three sponsored research projects for about Rs.1.5 crores funding from DST, CSIR and DRDO as PI and CO-PI, and filed two Indian patents.

He acquired American Society for Non-destructive Testing (ASNT)- Level -2 certification in Ultrasonic Testing. Dr.Manivannan guided 05 Ph.D., 01 M.S., 38 M.Tech. and 23 M.Sc. students for their projects. Currently 06 Ph.D students are working under his guidance. He has organized around 07 conferences/workshops/courses at NIT Trichy. He is the member of Indian Society for Non-destructive Testing, Photonics Society of India, SPIE-USA, International Association of Advanced Materials and Materials Research Society of India. Dr.Manivannan travelled extensively, interacted with experts, and participated in various academic programmes in South Korea, Japan, Poland, United States of America, Singapore, China, Sri Lanka and delivered more than 47 invited talks. He is also serving as a reviewer in many international journals.

He also received Junior and Senior Research Fellowships from DST and CSIR. He is the recipient of Brain Korea 21 postdoctoral fellowship during the year 2007-2008. He received Young Scientist Research Grant of Rs.20.00 lakhs from DST, India in the year 2010. He won many best paper awards, notably from European Materials Research Society in the year 2008, session's best presentation award from International Conference on Nanoscience and Nanotechnology 2016 at Colombo, Sri Lanka, IUMRS-ICYRAM 2016 at IISc, Bangalore. He has been honoured with faculty achiever's award at NIT, Tiruchirappalli in the year 2017, 2018 and 2021. He has been awarded Tamil Nadu Young Scientist Award for the year 2016 in the discipline of Physical Sciences. Dr. S. Manivannan has also been awarded as Outstanding Faculty in Science -2017 by Venus International Foundation, Chennai. Recently, he received the Distinguished Alumnus Award (2021) from Jamal Mohamed College, Tiruchirappalli.

Name: Dr.S. MANIVANNAN
 Designation: Associate Professor
 Office Address: Room No. PH315
Department of Physics

National Institute of Technology Tiruchirappalli – 620015, Tamil Nadu.

4. Telephone (Direct) (Optional): 0431 – 2503616 (off) Telephone: 9629505060 (Mobile)

Extn (Optional): Mobile (Optional):

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

Email (Secondary): ksmaniphysics@yahoo.com

6. Field(s) of Specialization: Carbon nanotubes (purification, functionalization,

dispersion), fabrication of transparent conducting films for

display, optoelectronics, energy storage/conversion, graphene, graphene oxide, organic and semi organic nonlinear optical (*NLO*) materials, display materials,

sensors and polymer nanocomposites.

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	National Institute of Technology, Tiruchirappalli, India	12 March, 2018	Till date
Assistant Professor	National Institute of Technology, Tiruchirappalli, India	December 2008	11 March, 2008
Kyung Hee University, Seoul, South Korea	Postdoctoral Researcher	January 2007	December 2008

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

Examination	Board / University	Year	Division/	Subjects
			Grade	
Ph.D.	Bharathidasan University	2006		Physics
M.Phil.	Bharathidasan University	2001		Physics
B.Ed.	University of Madras	2000		Physical Science
M.Sc.	Bharathidasan University	1999		Physics
B.Sc.	Bharathidasan University	1997		Physics

9. Academic/Administrative Responsibilities within the University

Department Level Responsibility

Position	Faculty/Department/Centre/Institution	From	To
Ph.D.Admission			
co-ordinator	Setting up of question papers, conducting		
	entrance examination, Interviews and		
	admission related activities	2008	2010
M.Sc., M.Tech. and			
Ph.D. Department	Organizing seminars and arrangements		
weekly seminar	related activities		
(FRIDAY			
PHYSICS)		•	2010
co-ordinator		2009	2010
M.Tech.Admission	Admission related activities		
co-ordinator		2011	2012
		2011	2012
	Preparation of time table, class and		
	invited lectures arrangements,		
	conducting practicals, field work at		
M.Tech.Course	BHEL and NITT, project review		
co-ordinator	meetings, purchase of equipments, consumables, results and related		
co-ordinator	activities.	2011	2014
B.Tech Course	Preparation of time table, class and	2011	2014
Co-ordinator	lectures arrangements, laboratory	December	December
(shared with	maintenance, conducting practicals,	2015	2019
Dr. N.V. Giridharan)	purchase of equipments, consumables,	2013	2017
Di. iv. v. Girianaran)	results and related activities.		
M.Tech (NDT)	Website updating and purchase of items	March	July 2020
NBA- internal	related to laboratory	2020	
committee member	a contract of the contract		
DPEC member	Review & evaluation of projects	Feb. 2020	June 2022
(M.Sc. Project)	ı J		(till date)
COVID-19 SoP co-	Creating awareness and insisting SoP	July 2020	Sep 2021
ordinator	among staff and students		(till date)
M.Tech syllabus	Curriculum development, revision,	23 June,	Till date
revision committee	related work	2022	

Institute Level Responsibility

Position	Faculty/Department/Centre/Institution	From	To
Member in			
Academic Interface			
Cell	Identification of experts/faculty from		
	reputed institutes/industry for special	2012	
	lectures and related activities	onwards	

	T		1
All-India Inter-NIT			
Sports Meet'14 -			
Committee Member	Registration related activities	2013	
Stock Verification			
Officer	Verification of library book bank	2013	
All-India Inter-NIT			
Sports Meet'14 -			
Committee Member	Registration related activities	2014	
Stock Verification	Verification of Stock in Estate		
Officer	Management Department	2014	
Stock Verification	Verification of Stock in Civil Engineering		
Officer	Department	2016	
Member in Hospital	Creation of facility, induction of visiting		
Committee	consultants, etc.	2016	
13 th Convocation			
Committee Member	Seating & logistics arrangements	2017	
Stock Verification	Verification of Stock in Civil Engineering		
Officer	Department	2018	
14 th Convocation			
Committee Member	Seating & logistics arrangements	2018	
15 th Convocation			
Committee Member	Seating & logistics arrangements	2019	
Stock Verification	Verification of Stock in	2020	2021
Officer	English/Humanities Department	2021	2022
COVID-19 SoP	Implementation of SOPs for the student in	11 Oct.	13
co-ordinator	the academic and shopping complex zone	2021	October
	in NITT		2021

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member in Research			Till date
Advisory	Jamal Mohammed College,	2021	
Committee	Tiruchirappalli.		
Member in Doctoral	Engineering/Arts and Science	2009 onwards	Till date
Committee	Institutions		
Member in Board of	Engineering/Arts and Science	2009 onwards	Till date
Studies	Institutions		

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
14 th August 2021	Distinguished Alumnus Award	Jamal Mohamed College,
		Tiruchirappalli
2020-21	Best Performer Award 2021	National Institute of Technology,
		Tiruchirappalli

	(Teaching, Research & Institutional Development)	
2017-18	Faculty Award (Sponsored Research Projects)	National Institute of Technology, Tiruchirappalli
2018	Tamil Nadu Young Scientist Award- 2016	Science City, Government of Tamil Nadu, Chennai
2017	Outstanding Faculty Award	Venus International Foundation, Chennai
2017	Faculty Achiever's Award	National Institute of Technology, Tiruchirappalli
2016	Best Poster Award	IUMRS-ICYRAM 2016, IIsc, Bangalore
2016	Best Presentation Award	ICNSNT 2016, Colombo, Sri Lanka
2008	Best Paper Award	European-Materials Research Society, Warsaw, Poland
From 2008 onwards	Reviewer in International Journals	Journals from RSC, Elsevier, Springer, etc.

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2011	International Travel Grant	Department of Science & Technology, New Delhi, India	2011	2011
2010	Young Scientist Research Grant of Rs.20.00 lakhs	Department of Science & Technology, New Delhi, India	2010	2013
2007	Brain Korea 21 - Postdoctoral Research Fellowship	Govt. of South Korea	January 2007	December 2008
2004	Senior Research Fellowship	Council of Scientific & Industrial Research, New Delhi, India	April 2004	December 2006
2003	Senior Research Fellowship	Department of Science & Technology, New Delhi, India	April 2003	March 2004

Research & Technology, New Delhi, India		2001		3	October 2001	March 2003
---	--	------	--	----------	--------------	------------

13. Details of Academic Work

(i) Curriculum Development

Involvement in Laboratory Development

Sl.			
No.	Course Paper & code		Year
01	M.Tech.	Practicals & PH606	2009, 2010 & 2011
02	M.Tech.	Practicals & PH607	2009, 2010 & 2011
03	M.Tech.	Practicals & PH606	2011
04	Ph.D.	Research Laboratory	2011
05	M.Tech.	Practicals & PH607	2012 & 2013
	M.Sc./		
	M.Tech./		
06	Ph.D.	Practicals & Research	2013-2014
	B.Tech./		
07	M.Tech./	Laboratories	2014
	B.Tech./		
08	Ph.D	PH101, PH102A & PH102B	2015
09	B.Tech.	PHIR11, PHIR12 & PHIR13	2015- Dec. 2019

Involvement in Development of Experiments

Sl. No.	Course	Paper & code	Year	Role
		•		Introduced liquid penetrant
				testing and magnetic particle
		Practicals &	2009, 2010	inspection experiments using
01	M.Tech.	PH606	& 2011	standard specimens.
				Introduced analysis of powder
		Physics		X-ray diffraction pattern and FT-
02	M.Sc.	Laboratory –I	2009	IR spectrum of materials.
				Introduced more than five
		Practicals &	2009, 2010	fundamental experiments using
03	M.Tech.	PH607	& 2011	ultrasonic flaw detector.
		Research		Purification and dispersion of
04	Ph.D.	Laboratory	2010, 2011	carbon nanotubes.

				Fabrication of transparent
				conducting films.
				Demonstration of Laser based
				refractive index measurement set
		Physics I & II,		up, electrical measurement set
05	B.Tech.	PH 101 & 102	2013 & 2014	up, nanomaterials synthesis.
		Project and		Electrical property measurement
06	M.Sc.& Ph.D.	Research	2015	of thin materials
		Research		High Temperature Heating Unit
07	Ph.D.	Laboratory	2017	for Sample Preparation
		Research		
08	Ph.D.	Laboratory	2018	Electrochemical Workstation
		Teaching &		
	M.Sc. &	Research		Gas sensing experimental
09	Ph.D.	Laboratory	2020	facility
		Teaching &		
	M.Sc./M.Tech	Research		IR and UV photodetector
10	& Ph.D.	Laboratory	2021	experimental facility

(ii) Courses taught at Postgraduate and Undergraduate levels

Sl.	Course	Paper & code	Academic
No.			Year/
			Session
01	M.Tech.	Ultrasonic Testing & PH602	2008-09
02	B.Tech.	Physics –I & PH101	2009-10
03	M.Tech.	Surface NDE Methods & PH605	2009-10
04	B.Tech.	Physics –II & PH102	2009-10
05	M.Tech.	Ultrasonic Testing & PH602	2009-10
06	M.Tech.	Practicals -II & PH606	2009-10
07	M.Sc.	Physics Laboratory –I & PH659	2009-10
08	M.Tech.	Practicals –I & PH607	2009-10
09	B.Tech.	Physics –I & PH101	2010-11
10	M.Tech.	Surface NDE Methods & PH605	2010-11
11	B.Tech.	Physics –II & PH102	2010-11
12	M.Tech.	Practicals -II & PH606	2010-11
13	M.Tech.	Practicals -I & PH607 2010-11	
14	B.Tech.	Physics –I & PH101	2011-12
15	M.Tech.		
	& M.S.	Surface NDE Methods & PH605	2011-12
16	M.Tech.	Practicals –II & PH606	2011-12
17	Ph.D.	Electrical, magnetic and optical properties of materials &	
		PH610 (shared by two faculty members)	July 2011
18	M.Tech.	Surface NDE Methods & PH605	July 2012
19	M.Tech.	Practical -I & PH607	July 2012
20	B.Tech.	Physics –I & PH101	July 2012

Jan. 2013 Jan. 2013 Jan. 2013 July 2013 July 2013 July 2013 July 2014
Jan. 2013 July 2013 July 2013 July 2013
July 2013 July 2013 July 2013
July 2013 July 2013
July 2013
Jan. 2014
T 2014
Jan. 2014
Jan. 2014
July 2014
July 2014
July 2014
Jan. 2015
812 Jan. 2015
July 2015
July 2015
July 2015
Jan. 2016
July 2016
July 2016
July 2016
Jan. 2017
812 Jan. 2017
July 2017
July 2017
July 2017
Jan. 2018
July 2018
July 2018
July 2018
812 July 2018
Jan. 2019
July 2019
July 2019
July 2019
Jan. 2020
July 2020
July 2020
July 2020
Jan. 2021
July 2021
July 2021

	M.Sc.&		July 2021
63	Ph.D	Basics of Engineering Materials & PH613	
64	B.Tech	Physics-I & PHIR11	Jan.2022

(iii) Projects guided at Postgraduate level

M. Tech. (Non-destructive Testing)

Sl. No.	Name of the Student	Year	Title of the project/dissertation
01	T.NAGANJANEYULU	2009	Electromagnetic acoustic transducers
		(Phase I)	(EMATs) for various applications
02	T.NAGANJANEYULU	2010	Electromagnetic acoustic transducers
		(Phase II)	(EMATs) for aerospace applications
03	P.RAJENDHER	2010	Defect characterization of AISI 304L stainless
		(Phase I)	steel and AISI 1080 carbon steel weldments
			using ultrasonic signal processing
04	GORLA	2010	Honeycomb sandwich structures inspection
	VENKATESWARLU	(Phase I)	using air coupled ultrasonics
05	P.RAJENDHER	2011	Characterization of weld defects using
		(PhaseII)	ultrasonic signal processing technique
06	GORLA	2011	Lamb wave excitation in sandwich structure
	VENKATESWARLU	(PhaseII)	using PZT and debond detection by
			shearography
07	KATTA	2011	Higher Order Guided Waves for Inspection of
	SOMAKIRANKUMAR	(Phase I)	Air Craft Structure
08	SAMBHU R	2011	Study of Precipitation Behaviour of Materials
		(Phase I)	for Ultra Super Critical Boilers Using
			Ultrasonics
09	SAMBHU R	2012	Study of Precipitation Behaviour of Materials
		(PhaseII)	for Ultra Super Critical Boilers Using
			Ultrasonics
10	KATTA	2012	Study on Higher Guided Waves in Aluminum
	SOMAKIRANKUMAR	(PhaseII)	Plates
11	PRAVEEN S	2012	Imaging of Inclined Defects Using Ultrasonic
		(Phase I)	Immersion Techniques
12	NIKHIL	2012	Inspection of Weld in Hexcan Using Phased
		(Phase I)	Array Ultrasonic Testing
13	PRAVEEN S	2013	Imaging of Inclined Defects Using Immersion
		(PhaseII)	Synthetic Aperture Technique
14	NIKHIL	2013	Inspection of Seal Weld in Hexagonal
		(PhaseII)	Wrapper Tube Using Phased Array Ultrasonic
			Testing

1.5	CILADEED ALLIAM	2012	
15	SHABEER ALI M K	2013	Defect Depth Prediction in Aluminium Plates
		(Phase I)	by Pulsed Thermography
16	ARUN S	2013	Acoustic Emission and Infrared
		(Phase I)	Thermography Studies During Tensile
			Deformation of Pure Copper
17	SHABEER ALI M K	2014	Defect Characterization by Pulsed
		(PhaseII)	Thermography
18	ARUN S	2014	Characterization of Tensile Deformation of
		(PhaseII)	2.25Cr-1Mo Steel and Pure Copper Using
			Acoustic Emission and Infrared
			Thermography Techniques
19	DEEPAK KUMAR	Dec -2014	Quantification of Inclusion and Pitting
	MORWAL	(Phase I)	Corrosion of Micro and Semimicro size using
			Ultrasonic Immersion Imaging Technique
20	K. NATRAJ	Dec -2014	Non-Destructive Evaluation of Residual
		(Phase I)	Stresses in Carbon Steel Weld Joints made by
			Sequential Welding Passes
21	DEEPAK KUMAR	May 2015	Quantification of Inclusion and Pitting
	MORWAL	(Phase-II)	Corrosion of Micro and Semimicro size using
			Ultrasonic Immersion Imaging Technique
22	K. NATRAJ	May 2015	Development of 3D Ultrasonic Ray Tracing
		(Phase-II)	Tool for Weld Inspection
23	S. KARTHIK KUMAR	Dec -2015	Study on Tensile Behavior of HSLA Steel
		(Phase I)	Using Acoustic Emission Technique
24	S. KARTHIK KUMAR	May 2016	Study on Tensile Behavior of HSLA Steel
		(Phase-II)	Using Infrared Thermography Technique
25	S. SARAVANAN	Dec -2016	Ultrasonic Waveguide Sensor for Liquid Level
		(Phase I)	Measurement
26	DEEPJYOTI DAS	Dec -2016	Determination of the Best Parameter to Detect
		(Phase I)	any form of Defects Present in a Grinding
		(= ====================================	Wheel using Ultrasonic Testing
27	S. SARAVANAN	May 2017	Defect Detection in Hybrid Composite using
		(Phase-II)	Split Spectrum Processing
28	DEEPJYOTI DAS	May 2017	Quality Inspection of Thin Conducting Films
		(Phase-II)	Using Infrared Thermography
29	TANUJ KUMAR	Dec -2017	Non-Destructive Evaluation of Austenitic SS
		(Phase I)	304L Weld Joint by Ultrasonic Testing and C-
			Scan Method
30	TANUJ KUMAR	May 2018	Defect Sizing and Material Characterization of
		(Phase-II)	Nylon 12 by Thermography Testing
31	KULDEEP	Dec -2018	Non Destructive Testing of Aluminium-5052
<i>J</i> 1		(Phase I)	and Pure Copper Welds
32	KULDEEP	May- 2019	Thermal Diffusivity and Defect Analysis of
32	KOLDELI	(Phase II)	PEDOT:PSS-AgNW-PEDOT:PSS
		(1 mase II)	_
			Electrothermal Heaters Using Lock-in
	1		Thermography

33	ADITYA KUMAR	Dec -2019	Weld Inspection by Using Phased Array
		(Phase I)	Ultrasonic Testing
34	ADITYA KUMAR	May- 2020	Comparison Between Phased Array Ultrasonic
		(Phase II)	Testing and Total Focusing Method
35	SAGNIK	Dec -2020	Data Analysis of Guided Wave for
	CHAKRABORTY	(Phase I)	Temperature Measurement of Furnace
36	SAGNIK	May- 2021	Data Analysis of Guided Wave for
	CHAKRABORTY	(Phase II)	Temperature Measurement of Furnace
37	RAHUL R	Dec-2021	Study of Reliability of a Manual and
		(Phase I)	Automatic Inspection System for Detecting
			Defect in the Aerospace Composites
38.	RAHUL R	May- 2022	Study of Reliability of a Manual and
		(Phase II)	Automatic Inspection System for Detecting
			Defect in the Aerospace Composites

M.Sc. (Physics) Projects

Sl. No.	Name of the Student	Year	Title of the project/dissertation
110.	Name of the Student	May	The of the project/dissertation
01	J. NITHYA DEVI	2010	Multiwalled carbon nanotubes for fiber optic gas
0.1		2010	sensor
		May	
02	A.M. SARANYA	2010	Single walled carbon nanotubes for gas sensing
			applications
		May	
03	S. MOHANAPRIYA	2011	
			Fabrication of single walled and multiwalled
			carbon nanotube films by dip coating technique
		May	Fabrication of Transparent Conductive Films
04	K.K.JAGADESH	2012	Using Multi-walled Carbon Nanotubes
		May	Synthesis and Characterization of Copper
05	U. NITHIYANANTHAM	2012	Nanowires
	PERLA SREEKOTI	May	Fabrication of Multi-Walled Carbon Nanotube
06	SUBHA PUJITHA	2013	Incorporated Polymer Free Standing Films
		May	Fabrication of Multi-walled Carbon Nanotubes
07	T. RAJAGURU	2013	Transparent Conductive Films
		May	Synthesis and Characterization of Copper
08	BOOPALAN. T	2014	Nanostructure
		May	Fabrication of Silver Nanoparticles Incorporated
09	BHARATHIDASON. J	2014	Polymer Free Standing Films
		May	Synthesis and Characterization of Nickel Oxide
10	GOWTHAM. E	2015	Nanowires
		May	Synthesis and Characterization of Silver Sulfide
11	VIBHU DARSHAN	2015	Nanoparticles

		Morr	Electrical and Optical Properties of Silver
10	NIIVEDIIA M	May	<u> </u>
12	NIVEDHA.M	2016	Nanowires Thin Films
		May	Investigation on Dielectric Properties of Photo-
13	RAMEEZ.P.P	2016	Irradiated Graphene Oxide
			Synthesis and Characterization of Porous
		May	Hydroxyapatite Based Metal-Carbon
14	SHEENA RASHEED	2017	Nanocomposites
		May	Microwave Assisted Synthesis of Silver
15	SINDHU S	2017	Nanostructures for Anticorrosion Applications
			Microwave Assisted Synthesis and
		May	Characterization of Porous Copper-Reduced
16	ALICE NOBLE A	2018	Graphene Oxide Nanocomposite
			Synthesis and Characterization of Reduced
		May	Graphene Oxide-Copper Composite using L-
17	AKHIL RAJ T	2018	Ascorbic Acid
		May	Micromagnetic Simulations on Formation and
18	P S SIVA SANKARAN	2019	Control of Magnetic Vortex States in CrO ₂
		May	Investigation on Mechanical Properties of
19	KASTHURI E	2019	Graphene Oxide and its Composites
			Multi walled Carbon Nanotubes-Poly (3,4-
	CHINMAYEE	May	Ethylenedioxythiophene):
20	CHANDRIKA PATI	2020	Poly(Styrenesulfonate) for Infrared Sensor
	-	May	Copper Sulfide- RGO Nanocomposites for Gas
21	VIJAY YADAV	2020	Sensing Applications
		May	Analysis of Electrical Behavior of
22	GOWRI S	2021	Supercapacitor Using Transport Phenomena
		May	MoS ₂ -PEDOT:PSS-AgNWs Composite Flexible
23	NIKITA GUPTA	2022	Films for UV and IR Detector Applications

(iv) Other contribution(s)

B. Tech. Projects Guided

Sl.	Name of the Students	Year	Title of the project/dissertation
No.			
01	N.Dilip Krishna	May	Fabrication of Nanoparticle Based Dye-
	Karthik.R	2013	Sensitized Solar Cells
	R.Uppiliappan		
02	Lakshmi Narayanan	May	Fabrication and Optical Analysis of Cobalt
	M.S and V. Hemanth	2015	Doped Zinc Oxide/Polyvinylpyrolidone
	Shankar		Nanocomposite Free Standing Films

M.S. (by Research) Guided

Sl.	Name of the	Year	Title of the project
No.	Student		

		Completed	Code Generation Towards Automation of
		on 29 Nov.	Pulsed Thermography Using Computer
01	Sobhanan M B	2017 (final	Numerical Controlled Manipulator for CFRP
		GTC)	Honecomb Structures

14. Details of Major R&D Projects

	Eunding	Durati	on	Status (role)
Title of Project	Funding Agency	From	To	Ongoing/
D. I. CERLER C. I. C. I.	DDD 0	2015	2021	Completed
Development of PZN-PT Single Crystal	DRDO,	2017	2021	Completed (co-
Technology for Naval Transducer	New Delhi,			PI)
Applications	India			
Single-Walled Carbon Nanotube-Reduced	CSIR,	2016	2019	Completed (PI)
Graphene Oxide-Metal Oxide Nanowires	New Delhi			
Hybrid Electrode for Supercapacitor				
Applications				
Fabrication of Single-Walled Carbon	DST,	2010	2013	Completed (PI)
Nanotube Transparent Conducting	New Delhi,			
Electrodes for Display, Solar Cells and	India			
Optoelectronics				

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co- Supervisor)	Year of Award
L.R. SHOBIN	Carbon Nanotubes and Silver Nanowires for Gas Sensors and Transparent Devices	Supervisor	2016
T. KAVINKUMAR	Electrical, Gas Sensing, Biomedical Applications of Graphene Oxide and Reduced Graphene Oxide Composites	Supervisor	2017
V. MYDHILI	Poly(3,4- ethylenedioxythiophene): poly(styrenesulfonate) composites, blends and heterostructure for dielectric, supercapacitor and photodetector applications.	Supervisor	2020
N. AMBIKESWARI	Dielectric, magnetodielectric and	Supervisor	2021

	electrochemical properties of reduced graphene oxide - cobalt hydroxide/ferrite composites		
D. PRAKASH	Nanomaterials and their	Supervisor	Thesis
	Energy Storage Applications		Submitted
K.LAKSHMANAMOORTHY	Carbon nanomaterials for	Supervisor	Doing
	gas sensors		
E. G. AMRUTHA	Nano-carbon and their	Supervisor	Doing
	applications		
M.DIVYA MEENAKSHI	Carbon nanofibers	Supervisor	Doing
PRIYAJANANI Y	Carbon nanocomposites	Supervisor	Doing
POORNIDEVI T	Nanocomposites and devices	Supervisor	Doing
ASHU KUMARI	Two-dimensional carbon	Supervisor	Doing
	structures		

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
February 17-19, 2022	6th International Conference on Recent Advances in Material Chemistry (ICRAMC-2022)	International	Paper presenter/ Author	SRMIST, SRM University, Tamil Nadu, India	Online mode
February 17-19, 2022	6th International Conference on Recent Advances in Material Chemistry (ICRAMC-2022)	International	Paper presenter/ Author	SRMIST, SRM University, Tamil Nadu, India	Online mode
February 11-12, 2022	International Conference on Advanced Materials-2022 (ICAM-2022)	International	Paper presenter/ Author	Department of Physics, St. Joseph's College, Tiruchirappalli, Tamil Nadu, India.	Online mode

February 01-03, 2021	6th International Conference on Nanoscience and Nanotechnology (ICONN-2021)	International	Paper presenter/ Author	Department of Physics and Nanotechnology, SRMIST	Tamil Nadu, India
September 16-18 2020	International Virtual Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2020)	International	Paper presenter/ Author	Alagappa University & Brunel University Jointly Organizes India— UK.	Online mode
February 20-22, 2020	International conference on Materials of Emerging Energies (ICMEE 2020)	International	Paper presenter/ Author	Loyola College	Chennai, India
December 18-22, 2019	64th DAE Solid State Physics Symposium (DAE-SSPS 2019)	National	Paper presenter/ Author	Bhabha Atomic Research Centre, Mumbai, India	IIT Jodhpur, Rajasthan, India.
September 23-25, 2019	International Conference on Advanced Materials and Processes for Defence Applications (ADMAT 2019)	International	Paper presenter/ Author	Defence Metallurgical Research Laboratory, Hyderabad, India.	Courtyard by Marriott
January 28-30, 2019	International Conference on Nanoscience and Nanotechnology (ICONN -2019)	International	Paper presenter/ Author	SRM University	Chennai, India.
December 18-22, 2018	63rd DAE Solid State Physics Symposium (DAE-SSPS 2018)	National	Paper presenter/ Author	Bhabha Atomic Research Centre, Mumbai, India	Guru Jambheshwar University of Science and Technology, Hisar, Haryana

February 14-16, 2018	MRSI-National Symposium on Advances in Functional and Exotic Materials	National	Paper presenter/ Author	Bharathidasan University	Tiruchirappalli, Tamil Nadu, India.
August 09-11, 2017	International Conference on Nanoscience and Nanotechnology (ICONN -2017)	International	Paper presenter/ Author	SRM University	Chennai, India.
August 09-11, 2017	International Conference on Nanoscience and Nanotechnology (ICONN -2017)	International	Paper presenter/ Author	SRM University.	Chennai, India.
December 26-30, 2017	62nd DAE Solid State Physics Symposium (DAE-SSPS 2017)	National	Paper presenter/ Author	Bhabha Atomic Research Centre	Mumbai, India
December 15-16, 2016	3rd International Conference on Nanoscience and Nanotechnology (ICNSNT 2016),	International	Paper presenter/ Author	The International Institute of Knowledge Management	Colombo, Srilanka
December 14-16, 2016	International Conference on Material Processing and Applications. (ICMPA-2016),	International	Paper presenter/ Author	Center for Crystal Growth, School of Advance Sciences.	VIT University, Vellore, Tamilnadu, India.
December 11-15, 2016	International Conference of Young Researchers on Advanced Materials (IUMRS- ICYRAM 2016)	International	Paper presenter/ Author	Indian Institute of Science	Bangalore, India
October 7, 2016	National Conference on Advanced Materials-2016 (NCAM-2016)	National	Paper presenter/ Author	Department of Physics, St. Joseph's College	Tiruchirappalli, India.

September 07-10, 2016	International Conference on Functional Materials (ICFM-2016)	International	Paper presenter/ Author	PSN College of Engineering and Technology	Tirunelveli, Tamilnadu, India
September 07-10, 2016	International Conference on Functional Materials (ICFM-2016)	International	Paper presenter/ Author	PSN College of Engineering and Technology	Tirunelveli, Tamilnadu, India
June 05- 08, 2016	Second International Conference on Material Science and Technology (ICMST-2016)	International	Paper presenter/ Author	St. Thomas College	Pala, Kottayam, Kerala, India.
February 26-28, 2016	International Conference on Frontiers in Nanoscience & Nanotechnology (ICFNN-2016)	International	Paper presenter/ Author	Sastra University	Thanjavur, Tamil Nadu, India
February 05, 2016	International Conference on Modern Engineering, Science & Technology-2016 (IER- ICMEST'16)	International	Paper presenter/ Author	Institute of Engineering Research	Trivandrum, Kerala, India.
December 14-15, 2015	International Conference on Recent Advances in Material and Chemical Sciences (ICRAMCS- 2015)	International	Paper presenter/ Author	Gandhigram Rural Institute	Gandhigram, Tamilnadu, India
December 14-15, 2015	International Conference on Recent Advances in Material and Chemical Sciences	International	Paper presenter/ Author	Gandhigram Rural Institute	Gandhigram, Tamilnadu, India

	(ICRAMCS- 2015)				
December 14-15, 2015	International Conference on Recent Advances in Material and Chemical Sciences (ICRAMCS- 2015)	International	Paper presenter/ Author	Gandhigram Rural Institute	Gandhigram, Tamilnadu, India
November 26-28, 2015	National Seminar & International Exhibition on Non-Destructive Evaluation,	National	Paper presenter/ Author		Hyderabad, India
October 9-11, 2014	SPIE Photonics Asia	International	Paper presenter/ Author	SPIE	Beijing, China
October 9-11, 2014	SPIE Photonics Asia	International	Paper presenter/ Author	SPIE	Beijing, China
July 6-7, 2014	International Conference on Nanotechnology (ICN – 2014)	International	Paper presenter/ Author	World Academy of Science, Engineering and Technology	Singapore
March 6- 7, 2014	National Conference on Nanophotonics (NCNP – 2014)	National	Paper presenter/ Author	Bharathidasan University	Tiruchirappalli, India
March 6- 7, 2014	National Conference on Nanophotonics (NCNP – 2014),	National	Paper presenter/ Author	Bharathidasan University	Tiruchirappalli, India
March 6- 7, 2014	National Conference on Nanophotonics (NCNP – 2014)	National	Paper presenter/ Author	Bharathidasan University	Tiruchirappalli, India
January 30-31, 2014	National Conference on Advanced Functional Materials (NCAFM-2014)	National	Paper presenter/ Author	Bharathiar University	Coimbatore, India.
December 16-20, 2013	International Union of Materials	International	Paper presenter/ Author	Indian Institute Of Science	Bangalore, India.

	D 1				
	Research				
	Societies –				
	International				
	Conference in				
	Asia – 2013				
	(IUMRS-ICA-				
	2013)				
December	International	International	Paper	Indian Institute	Bangalore,
16-20,	Union of		presenter/	of Science	India.
2013	Materials		Author		
	Research				
	Societies –				
	International				
	Conference in				
	Asia – 2013				
	(IUMRS-ICA-				
	2013)				
	/				
September	National Seminar	National	Paper	Govt. Arts	Ooty, India
25-27,	on New		presenter/	College	,
2013	Materials		Author	8	
	Research and				
	Nanotechnology"				
	(MSNMRN2013)				
September	National Seminar	National	Paper	Govt. Arts	Govt. Arts
25-27,	on New		presenter/	College, Ooty,	College, Ooty,
2013	Materials		Author	India	India
	Research and				
	Nanotechnology"				
	(MSNMRN2013)				
March 11,	National	National	Paper	Bishop Heber	Tiruchirappalli
2013	Conference on		presenter/	College	India
	Frontier Topics		Author		
	In Advanced				
	Materials"				
	(NCFTAM-				
	2013), ,				
January 2-	Optoelectronic		Paper	Cochin	Cochin, India.
5, 2013	Materials and		presenter/	University of	Coomin, maia.
3, 2013	Thin Films for		Author	Science and	
	Advanced			Technology	
	Technology"			1 connoing y	
	(OMTAT 2013,				
January	National Seminar	National	Paper	Manonmaniam	Tirunelveli,
23-24,	on Advances in	1 vational	presenter/	Sundaranar	India
2012,	Materials		Author	University	muia
۷012,	14141511418		Auului	Omversity	

	Science (NSAMS-2012),				
February 27-28, 2012	Annual Photonics Workshop 2012 (APW2012), Cochin, India.		Paper presenter/ Author	Cochin University of Science and Technology	Cochin, India.
January 23-24, 2012,	National Seminar on Advances in Materials Science (NSAMS-2012),	National	Paper presenter/ Author	Manonmaniam Sundaranar University	Tirunelveli, India
December 7-10, 2011	National Seminar & Exhibition on Non-Destructive Evaluation (NDE 2011)	National	Paper presenter/ Author		Chennai Convention Centre, Chennai, India.
December 7-10, 2011	National Seminar & Exhibition on Non-Destructive Evaluation (NDE 2011)	National	Paper presenter/ Author		Chennai Convention Centre, Chennai, India.
26th June to 01st July 2011	International Conference on Materials for Advanced Technologies" (ICMAT)	International	Paper presenter/ Author	Suntec, Singapore	Suntec, Singapore
26th June to 01st July 2011	International Conference on Materials for Advanced Technologies" (ICMAT)	International	Paper presenter/ Author	Suntec, Singapore	Suntec, Singapore
January 22-27, 2011	SPIE-Photonics West 2011, OPTO – Integrated Optics: Devices, Materials, and Technologies XV	International	Paper presenter/ Author	San Francisco, California, USA	San Francisco, California, USA
December 10-12, 2009	National Seminar & Exhibition on Non-Destructive	National	Paper presenter/ Author	BHEL & NIT, Tiruchirappalli, India	BHEL & NIT, Tiruchirappalli, India

	Evaluation (NDE 2009),				
December 3-5, 2008	The 15th International Display Workshops (IDW'08),	International	Paper presenter/ Author	Niigata, Japan	Niigata, Japan
November 6-8, 2008	The Korean Institute of Electrical and Electronic Material Engineers (KIEEME) Annual Autumn Conference 2008,	International	Paper presenter/ Author	South Korea	South Korea
October 13-17, 2008	8th International Meeting on Information Display (IMID 2008),	International	Paper presenter/ Author	South Korea	South Korea
September 15-19, 2008	The 2008 E-MRS Fall Meeting (E-MRS),	International	Paper presenter/ Author	Poland	Poland
August 11-13, 2008	11th Field Emission Workshop '08 (FEW 2008),	International	Paper presenter/ Author	Seokcho, South Korea	Seokcho, South Korea
July, 20- 25, 2008	Third International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA08)	International	Paper presenter/ Author	Edmonton, Canada,	Edmonton, Canada
May 18- 23,2008	Society for Information Display (SID'08)	International	Paper presenter/ Author	Los Angeles, California, USA,	Los Angeles, California, USA,
February 18-21, 2008	International Conference on Advanced	International	Paper presenter/ Author	Kottayam, India	Kottayam, India

	Materials (ICAM 2008)				
February 18-21, 2008	International Conference on Advanced Materials (ICAM 2008)	International	Paper presenter/ Author	Kottayam, India	Kottayam, India
December 12-14, 2007	The 5 th International Conference on Advanced Materials and Devices (ICAMD 2007)	International	Paper presenter/ Author	Jeju, Korea	Jeju, Korea
December 12-14, 2007	The 5th International Conference on Advanced Materials and Devices (ICAMD 2007)	International	Paper presenter/ Author	Jeju, Korea	Jeju, Korea
December 5-7, 2007	The 14th International Display Workshops (IDW '07),	International	Paper presenter/ Author	Sapporo, Japan,	Sapporo, Japan,
December 5-7, 2007	The 14th International Display Workshops (IDW '07),	International	Paper presenter/ Author	Sapporo, Japan,	Sapporo, Japan,
August 27-31, 2007	7 th International Meeting on Information Display (IMID 2007)	International	Paper presenter/ Author	EXCO, Daegu, Korea	EXCO, Daegu, Korea
August 27-31, 2007	7 th International Meeting on Information Display (IMID 2007)	International	Paper presenter/ Author	EXCO, Daegu, Korea	EXCO, Daegu, Korea
August 27-31, 2007	7 th International Meeting on Information Display (IMID 2007)	International	Paper presenter/ Author	EXCO, Daegu, Korea	EXCO, Daegu, Korea

August 09-11, 2007	The 10 th Field Emission Workshop (FEW 07),	International	Paper presenter/ Author	Gwanju, Korea,	Gwanju, Korea,
January 23-25, 2006	National Seminar on Materials for Advanced Technologies (NASMAT- 2006),	National	Paper presenter/ Author	Shivaji University, Kolhapur (MS), India	Shivaji University, Kolhapur (MS), India
January 10-13, 2005	Fourth DAE- BRNS National Laser Symposium (NLS-4)	National	Paper presenter/ Author	Bhabha Atomic Research Centre (BARC), Mumbai, India	Bhabha Atomic Research Centre (BARC), Mumbai, India
July 05- 08, 2004	International Conference on Photoacoustic & Photothermal Phenomena,	International	Paper presenter/ Author	Rio de Janeiro, Brazil	Rio de Janeiro, Brazil
March 8 – 9, 2004	Regional Conference on Photoacoustics in Condensed Matter Physics and NDT (PAC 2004)	Regional	Paper presenter/ Author	School of Physics, Madurai Kamaraj University	Madurai, India
December 22 –24, 2003	DAE– BRNS National Laser Symposium– 2003 (NLS- 2003)	National	Paper presenter/ Author	IIT, Kharagpur, India,	IIT, Kharagpur, India,

December 7-12, 2003	International Conference on Materials for Advanced Technologies (ICMAT-2003), Materials Research Society,	International	Paper presenter/ Author	Singapore	Singapore
November 28-30, 2003 January 25-31, 2003	International Conference on Ionic Devices International Conference on Laser Crystals, Glasses and Nonlinear Materials Growth and Characterization (LASE 2003)	International	Paper presenter/ Author Paper presenter/ Author	Anna University, Chennai, India San Jose, California, USA	Anna University, Chennai, India San Jose, California, USA
November 14-16, 2002	Sree Chitra Tirunal Institute for Medical Sciences and Technology,		Paper presenter/ Author	Trivandrum, India	Trivandrum, India

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
TEQUIP- II Sponsored National Conference on Advanced Materials: Processing and Characterization	National	27-28 February, 2017	Organizing Committee Member	National Institute of Technology, Tiruchirappalli.
Course on Carbon Nanotubes (under self- finance)	National	06-07 November, 2014	Sole Teacher & Co-Ordinator	National Institute of Technology, Tiruchirappalli.

National Level Technical Symposium – Quality 2014	National	26 th March, 2014	Co-Ordinator	National Institute of Technology, Tiruchirappalli.
National Level Technical Symposium – Quality 2013	National	19-20 March, 2013	Co-Ordinator	National Institute of Technology, Tiruchirappalli.
National Level Technical Symposium – Quality 2012	National	13 th March, 2012	Co-Ordinator	National Institute of Technology, Tiruchirappalli
Workshop on Electron Microscopy (WEM)	National	3-5 November, 2011	Co-Ordinator	National Institute of Technology, Tiruchirappalli.
National Seminar on Non- destructive Evaluation (NDE)	National	December 10-12, 2009	One of the organizing committee members	National Institute of Technology, Tiruchirappalli.

^{18.} Invited Talks delivered

World of Carbon Nanotubes Lecture - II World of Carbon Nanotubes Performa Flewer of Faculty Staff Members Carbon Nanotubes It September 2009 Sacred Heart College, Trinchy Staff Members Carbon Nanotubes It September 2009 Sacred Heart College, Trinchy Carbon Nanotubes It September 2009 Sacred Heart College, Trinchy Carbon Nanotubes Pebruary, 2012 Department of Physics, Sarah Tucker College, Trinchy Department of Physics, Urumu Dhanalashmi College, Trichy Danalashmi College, Trichirappalli Danalashmi College, Trichira	Topic	Date	Inviting Organization
World of Carbon National Institute of Teaching Staff Members Carbor Nanotubes and Applications Carbon Nanotubes Carbon Nanotubes Carbon Nanotubes Is between 18 between 2009 Applications Carbon Nanotubes Is between 2012 Carbon Nanotubes Pebruary, 2012 Carbon Nanotubes Pebruary, 2012 Carbon Nanotubes Pebruary, 2012 Carbon Nanotubes Sacrot Heart College, Trincher College, Trincher College, Trichy Department of Physics, Sarah Tucker College, Trincher College, Trichy Muthayammal Engineering College, Rasipuran Incredible Carbon Research Opportunities in Carbon Nanomaterials Pebruary, 2013 Arignar Anna Government Arts College, Musiri Carbon Nanomaterials in Photonics Trends in Carbon Research Ath July 2013 Wonders in Carbon Research Ath July 2013 Wonders in Carbon Research Ath July 2013 Muthayammal Engineering College, Rasipuran Makapirals for Flexible Carbon Nanomaterials Barathidasan University, Tiruchirappalli Carbon Nanomaterials Barathidasan University Between Arts and Science College, Namakkal Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials Research Pebruary, 2014 Carbon Nanomaterials Research Carbon Nanomaterials Research Pebruary, 2014 Carbon Nanomaterials Research Carbon Nanomaterials	World of Carbon Nanotubes -	11 th March, 2009	Jamal Mohamed College, Trichy
Lecture - I Perform a for CV of Faculty Staff Members	Lecture – II		m, 1, 11,
Carbon Nanotubes Carbon Nanotubes Carbon Nanotubes Research Opportunities in Carbon Nanomaterials Carbon N	World of Carbon Nantional In	stitumerof, 2006 nnoic	Symal Wheather Const. Trichy
Carbon Nanotubes Carbon Nanotubes Carbon Nanotubes Research Opportunities in Carbon Nanomaterials Carbon N	Lecture – I Perform	a for CV of Faculty	/ Staff Members
Applications		11 th September 2009	Sacred Heart College, Tiruppattur
College, Tirunelveli Carbon Nanotubes February, 2012 Department of Physics, Urumu Dhanalakshmi College, Trichy Research Opportunities in Carbon Research Resignuram Research Resignuram Research Resea	Applications		
Research Opportunities in Carbon 28th February, 2012 Muthayammal Engineering College, Rasipuram 28th February, 2013 Arignar Anna Government Arts College, Musiri	Carbon Nanotubes	18 th February, 2011	Department of Physics, Sarah Tucker
Dhanalakshmi College, Trichy Research Opportunities in Carbon 28th February, 2012 Muthayammal Engineering College, Rasipuram Arignar Anna Government Arts College, Musiri Bharathidasan University, Tiruchirappalli Bharathidasan University, Tiruchirappalli Bharathidasan University, Tiruchirappalli Bharathidasan University, Tiruchirappalli Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Tiruchirappalli Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Musiri Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Tiruchirappalli Muthayammal Engineering College, Tiruchirappalli Muthayammal Engineering College, Rasipuram Muthayammal			College, Tirunelveli
Research Opportunities in Carbon Research Opportunities in Carbon Resipuram Resipuram Rangar Anna Government Arts College, Rasipuram Rangar Anna Government Arts College, Musiri Rangar Anna Government Arts College, Tiruchirappalli Bharathidasan University, Tiruchirappalli Rateria in Carbon Research Rasipuram Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Musiri Rangar Anna Government Arts College, Tiruchirappalli Raterials in Carbon Research Rasipuram Muthayammal Engineering College, Musiri Rangar Anna Government Arts College, Tiruchirappalli Raterials and Carbon Research Rasipuram Muthayammal Engineering College, Palia Musiri Raterials and University, Tiruchirappalli Rasipuram Musthayamnal Engineering College, Musiri Raterials Anna Government Arts College, Musiri Raterials Muthayammal Engineering College, Musiri Raterials Muthayammal Engineering College, Musiri Raterials Anna Muthayammal Engineering College, Musiri Rasipuram Muthayammal Engineering College, Rangarine Musirials Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Musirial Musirial Muthayamal Muniversity, Tiruchirappalli, India Rasipuram Muthayammal Engineering College, Musirials Muthayammal Engineering College, Rasipuram Muthayammal Engineering College, Musirials Muthayammal Engineering College, Rasipuram Muthayamathidasan University, Tiruchirappalli Raterials Anna Mushayama Muniversity Tiruc	Carbon Nanotubes	February, 2012	Department of Physics, Urumu
Carbon Carbon Carbon 28th February, 2013 Arignar Anna Government Arts College, Musiri			Dhanalakshmi College, Trichy
Incredible Carbon 28th February, 2013 Arignar Anna Government Arts College, Musiri	Research Opportunities in	28 th February, 2012	Muthayammal Engineering College,
Carbon Nanomaterials 9th March, 2013 Jamal Mohamed College, Tiruchirappalli			
Carbon Nanomaterials 9th March, 2013 Jamal Mohamed College, Tiruchirappalli Carbon Nanomaterials in Photonics Trends in Carbon Research 4th July 2013 Muthayammal Engineering College, Rasipuram Muchayammal Engineering College, Rasipuram Muthayammal Engineering, Tiruchirappalli Muthayammal Engineering, Ma.M. School of Engineering, Tiruchirappalli Septan Nanomaterials 10th January 2013 Seethalakshmi Ramaswami College, Tiruchirappalli Selvam Arts and Science College, Namakkal Materials for Fluture Technology 10th February, 2014 Government Arts College, Karur, Tamilnadu Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture 1 21 November 2014 Bharathidasan University Tiruchirappalli, India UGC-Academic Staff College, Bharathidasan University Tiruchirappalli, India Carbon Nanomaterials- Lecture 1 21 November 2014 UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, India Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Bishop Heber College, Tiruchirappalli Recent Developments in the Field of Nanotechnology A.K.Samuthiram Namakkal The Progress of Carbon Anomaterials Research 20 Oct. 2016 Thiruvalluvar Govt. Arts College, Rasipuram	Incredible Carbon	28 th February, 2013	_ =
Carbon Nanomaterials in Photonics			Musiri
Photonics Trends in Carbon Research 4th July 2013 Muthayammal Engineering College, Rasipuram M.A.M School of Engineering, Tiruchirappalli Carbon Nanomaterials 8th October, 2013 Seethalakshmi Ramaswami College, Tiruchirappalli Carbon Nanomaterials 10th January 2014 Materials for Future Technology March 6th – 7th, 2014 Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture I II Carbon Nanomaterials- Lecture I II Carbon Nanomaterials- Lecture II Carbon Nanomaterials- Lecture II Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications The Progress of Carbon Nanomaterials Research 21 November 2016 Atheromaterials Research Applications Muthayammal Engineering College, Rasipuram M.A.M School of Engineering, Tiruchirappalli Seethalakshmi Ramaswami College, Tiruchirappalli Government Arts College, Karur, Tamilnadu Bharathidasan University Tiruchirappalli, India UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, India Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India St.Joseph's College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Physical Research Applications Thiruvalluvar Govt. Arts College, Rasipuram		•	<u> </u>
Trends in Carbon Research 4th July 2013 Muthayammal Engineering College, Rasipuram		11 th March, 2013	Bharathidasan University, Tiruchirappalli
Wonders in Carbon 21st September, 2013 M.A.M. School of Engineering, Tiruchirappalli Seethalakshmi Ramaswami College, Tiruchirappalli Seethalakshmi Ramaswami College, Tiruchirappalli Selvam Arts and Science College, Namakkal Materials for Future Technology Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I II Carbon Nanomaterials- Lecture I Carbon Nanomaterials Carbon Nanomaterials Research 6th February, 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials 11-18 May, 2015 Bishop Heber College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Thiruvalluvar Govt. Arts College, Rasipuram	Photonics		
Wonders in Carbon 21st September, 2013 M.A.M School of Engineering, Tiruchirappalli Serban Nanomaterials 8th October, 2013 Seethalakshmi Ramaswami College, Tiruchirappalli Seethalakshmi Ramaswami College, Tiruchirappalli Seethalakshmi Ramaswami College, Namakkal Materials for Future Technology 10th February, 2014 Government Arts College, Karur, Tamilnadu Materials for Flexible March 6th - 7th, 2014 Bharathidasan University Tiruchirappalli, India UGC-Academic Staff College, Bharathidasan University Tiruchirappalli, India UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, India UGC-Academic Staff College, Staff College, Tiruchirappalli UGC-Academic Staff College, Tiruchirappalli St.Joseph's College, Tiruchirappalli UGC-Academic Staff College, Tiruchirappalli UGC-	Trends in Carbon Research	4 th July 2013	
Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Dith January 2014 Carbon Nanomaterials Dith January 2014 Materials for Future Technology Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture Carbon Nanomaterials- Lecture Carbon Nanomaterials- Lecture Carbon Nanomaterials- Lecture Carbon Nanomaterials Carbon Nanotechnology Carbon Materials and Applications Carbon Nanotechnology Carbon Materials and Applications Carbon Nanomaterials Research Carbon Nanomaterials Carb			•
Carbon Nanomaterials Refi October, 2013 Seethalakshmi Ramaswami College, Tiruchirappalli Selvam Arts and Science College, Namakkal Selvam Arts College, Namakkal Materials for Future Technology Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture Carbon Nanomaterials- Lecture Carbon Nanomaterials Carbon Nanomaterials Research Carbon Nanomaterials Research Carbon Nanomaterials Carbon Nanotechnology Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Carbon Nanomaterials Research Carbon Nanomaterials Research Carbon Nanomaterials Research Carbon Nanomaterials Research Carbon Nanomaterials Carb	Wonders in Carbon	21 st September, 2013	
Carbon Nanomaterials Carbon Nanomaterials Materials for Fluture Technology Materials for Flexible Transparent Conducting Coatings Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture Carbon Nanomaterials- Lecture Carbon Nanomaterials Applications Carbon Materials and Applications Carbon Materials Research Carbon Mate			
Carbon Nanomaterials10th January 2014Selvam Arts and Science College, NamakkalMaterials for Future Technology10th February, 2014Government Arts College, Karur, TamilnaduMaterials for Flexible Transparent Conducting CoatingsMarch 6th - 7th, 2014Bharathidasan University Tiruchirappalli, IndiaCarbon Nanomaterials- Lecture I II21 November 2014UGC-Academic Staff College, Bharathidasan University Tiruchirappalli-23Carbon Nanomaterials24 January 2015UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, IndiaCarbon Nanomaterials24 January 2015Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, IndiaCarbon Nanomaterials Research6th February, 2015St. Joseph's College, TiruchirappalliFlexible Electronics: Materials and Applications11-18 May, 2015Bishop Heber College, TiruchirappalliRecent Developments in the Field of Nanotechnology24th March, 2016Gnanamani College of Technology, A.K.Samuthiram NamakkalCarbon Materials and Applications03 August, 2016Holy Cross College, TiruchirappalliThe Progress of Carbon Nanomaterials Research20 Oct. 2016Thiruvalluvar Govt. Arts College, Rasipuram	Carbon Nanomaterials	8 th October, 2013	_
Materials for Future Technology10th February, 2014Government Arts College, Karur, TamilnaduMaterials for Flexible Transparent Conducting CoatingsMarch 6th - 7th, 2014Bharathidasan University Tiruchirappalli, IndiaCarbon Nanomaterials- Lecture I II21 November 2014UGC-Academic Staff College, Bharathidasan University Tiruchirappalli-23Carbon Nanomaterials- Lecture II21 November 2014UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, IndiaCarbon Nanomaterials24 January 2015Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, IndiaCarbon Nanomaterials Research6th February, 2015St.Joseph's College, TiruchirappalliFlexible Electronics: Materials and Applications11-18 May, 2015Bishop Heber College, TiruchirappalliRecent Developments in the Field of Nanotechnology24th March, 2016Gnanamani College of Technology, A.K.Samuthiram NamakkalCarbon Materials and Applications03 August, 2016Holy Cross College, TiruchirappalliThe Progress of Carbon Nanomaterials Research20 Oct. 2016Thiruvalluvar Govt. Arts College, Rasipuram			
Materials for Flexible Transparent Conducting CoatingsMarch 6th - 7th, 2014Bharathidasan University Tiruchirappalli, IndiaCarbon Nanomaterials- Lecture I II21 November 2014UGC-Academic Staff College, Bharathidasan University Tiruchirappalli-23Carbon Nanomaterials- Lecture II21 November 2014UGC-Academic Staff College, Bharathidasan University, Tiruchirappalli, IndiaCarbon Nanomaterials24 January 2015Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, IndiaCarbon Nanomaterials Research6th February, 2015St.Joseph's College, TiruchirappalliFlexible Electronics: Materials and Applications11-18 May, 2015Bishop Heber College, TiruchirappalliRecent Developments in the Field of Nanotechnology24th March, 2016Gnanamani College of Technology, A.K.Samuthiram NamakkalCarbon Materials and Applications03 August, 2016Holy Cross College, TiruchirappalliThe Progress of Carbon Nanomaterials Research20 Oct. 2016Thiruvalluvar Govt. Arts College, Rasipuram		·	
Transparent Conducting Coatings Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture II Carbon Nanomaterials- Lecture II Carbon Nanomaterials- Lecture II Carbon Nanomaterials 24 January 2015 Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research Carbon Nanomaterials Applications Carbon Materials Applications Carbon Materials and Applications Carbon Mate			
Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I II Carbon Nanomaterials- Lecture II Carbon Nanomaterials Carbon Nanomaterials 24 January 2015 Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials Research Carbon Materials Applications Carbon Materials		March $6^{tn} - 7^{tn}$, 2014	,
Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture I Carbon Nanomaterials- Lecture II Carbon Nanomaterials- Lecture II Carbon Nanomaterials Carbon Nanomaterials Research Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Carbon Nanotechnology Carbon Materials and Applications Carbon Nanotechnology Carbon Materials and Applications Carbon Nanomaterials Research Carbon Nanomaterials			India
Carbon Nanomaterials Lecture II Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials 24 January 2015 Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Research Carbon Nanomaterials Carbon Nanomaterials Carbon Nanomaterials Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications Carbon Materials and Applications Carbon Materials Research Carbon			7799
Carbon Nanomaterials- Lecture II Carbon Nanomaterials 24 January 2015 Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials Arbon Materials	Carbon Nanomaterials- Lecture I	2137 1 2014	
Carbon Nanomaterials Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Nanomaterials Research Developments in the Field of Nanotechnology Carbon Materials and Applications Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram			
Carbon Nanomaterials Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Applications Thiruvalluvar Govt. Arts College, Rasipuram		21 November 2014	
Carbon Nanomaterials 24 January 2015 Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications O3 August, 2016 Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Nanomaterials Research Thiruvalluvar Govt. Arts College, Rasipuram	111		· · · · · · · · · · · · · · · · · · ·
Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 St. Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications The Progress of Carbon Nanomaterials Research Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India St. Joseph's College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Thiruvalluvar Govt. Arts College, Rasipuram			india
Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6th February, 2015 St. Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications The Progress of Carbon Nanomaterials Research Vivekanandha College of Arts & Science for Women, Thiruchencode, Namakkal, Tamil Nadu, India St. Joseph's College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Thiruvalluvar Govt. Arts College, Rasipuram	Carbon Nanomatarials	24 Ionuary 2015	
Women, Thiruchencode, Namakkal, Tamil Nadu, India Carbon Nanomaterials Research 6 th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Women, Thiruchencode, Namakkal, Tamil Nadu, India St.Joseph's College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram	Carbon Nanomaterials	24 January 2013	Vivekanandha College of Arts & Science for
Carbon Nanomaterials Research 6th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Nadu, India St.Joseph's College, Tiruchirappalli Bishop Heber College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram			
Carbon Nanomaterials Research 6th February, 2015 St.Joseph's College, Tiruchirappalli Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications O3 August, 2016 Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research St.Joseph's College, Tiruchirappalli Bishop Heber College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram			
Flexible Electronics: Materials and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications Carbon Materials and Applications The Progress of Carbon Nanomaterials Research The Progress of Carbon Nanomaterials Research The Progress of Carbon Research The Progress of Carbon Research The Progress of Carbon Research Thiruvalluvar Govt. Arts College, Resigname	Carbon Nanomaterials Research	6 th February 2015	
and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications The Progress of Carbon Nanomaterials Research Bishop Heber College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal O3 August, 2016 Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram	Caroon Ivanomaterials Research	0 1 Cordary, 2013	Staroseph s Conege, Thuemtappani
and Applications Recent Developments in the Field of Nanotechnology Carbon Materials and Applications The Progress of Carbon Nanomaterials Research Bishop Heber College, Tiruchirappalli Gnanamani College of Technology, A.K.Samuthiram Namakkal O3 August, 2016 Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram	Flexible Electronics: Materials	11-18 May, 2015	
Recent Developments in the Field of Nanotechnology Carbon Materials and Applications The Progress of Carbon Nanomaterials Research Applications Cath March, 2016 A.K.Samuthiram Namakkal O3 August, 2016 Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram	and Applications		Bishop Heber College, Tiruchirappalli
Field of Nanotechnology Carbon Materials and Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research A.K.Samuthiram Namakkal Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram	**	24 th March, 2016	
Applications Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research 20 Oct. 2016 Thiruvalluvar Govt. Arts College, Rasipuram			
Holy Cross College, Tiruchirappalli The Progress of Carbon Nanomaterials Research Nanomaterials Research Holy Cross College, Tiruchirappalli Thiruvalluvar Govt. Arts College, Rasipuram	Carbon Materials and	03 August, 2016	
The Progress of Carbon 20 Oct. 2016 Thiruvalluvar Govt. Arts College, Rasipuram	Applications		
Nanomaterials Research Rasipuram			Holy Cross College, Tiruchirappalli
1	The Progress of Carbon	20 Oct. 2016	Thiruvalluvar Govt. Arts College,
Carbon Nanomaterials 16 March 2017 Nehru Memorial College, Puthanampatti			
	Carbon Nanomaterials	16 March 2017	Nehru Memorial College, Puthanampatti

Materials for Future Technology	10 th August 2017	Selvamm Arts and Science College, Namakkal
Applications of Nanomaterials and Carbon Nanotubes	27 October 2017	Muthayammal Engineering College, Rasipuram
Carbon Materials & Their Applications	22 nd December 2017	UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli
Introduction to Nanomaterials and their Application	24 th January 2018	Holy Cross College (Autonomous), Tiruchirappalli
Nanomaterials & Carbon Nanotubes	7 th March 2018	K. Ramakrishnan college of Technology, Tiruchirappalli
Developments in Nanocarbon	14 th March 2018	UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli
Opportunities in Carbon	20 th September 2018	Srimad Andavan Arts & Science College, Tiruchirappalli
Research Opportunities in Carbon	29 th September 2018	Vivekanandha College of Arts and Science for Women, Tiruchengode
Advances in Carbon Materials	4 th Feb. 2020	The Gandhigram Rural Institute, Gandhigram
Introduction to Carbon Nanomaterials	08 th Feb, 2020	Madurai Sivakasi Nadars Pioneer Meenakshi Women's College, Poovanthi
Nano Carbon	20 th Feb. 2020	Jamal Mohamed College, Tiruchirappalli
Carbon Nanomaterials	27 th June, 2020	C.Abdul Hakeem College of Engineering & Technology, Melvisharam
Elemental Carbon for New Generation Devices	29 th June 2020	SRM TRP Engineering College, Trichy
Nanocarbon Molecules	04 th July 2020	Perunthalaivar Kamarajar Institute of Engineering and Technology (PKIET), Karaikal
Carbon Nanomaterials	5 th Dec.2020	Bharathidasan University, Tiruchirappalli
Carbon Nanomaterials	8 th Dec.2020	Bharathidasan University, Tiruchirappalli
Carbon Nanomaterials and their Applications	29 th April, 2021	Coimbatore Institute of Technology, Coimbatore
Nano Applications in Hardware Design	30 th April, 2021	Rajiv Gandhi National Institute of Youth Development (RGNIYD), Sriperumbudur
Carbon Nanostructures and Applications	23 rd June, 2021	Karpagam Academy of Higher Education, Coimbatore
Carbon Nanomaterials and their Applications	26 th February, 2022	National Institute of Technology, Tiruchirappalli
Wonders in Carbon	28 th February, 2022	Thanthai Periyar Government Arts and Science College, Tiruchirappalli
Low Dimensional Carbon Materials and Their Applications	25 March, 2022	Srinivasan College of Arts and Science, Perambalur

Nanocarbon Materials and	17 th June, 2022	NPR College of Engineering & Technology,
Devices		Dindigul

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date	
Life Member	Photonics Society of India	2004	
Life Member Regular Member (annual)	Indian Society for Non- Destructive Testing (ISNT) SPIE, USA	October 2009 & LM-8452-TC January 2005 & ID No.789628	
Five-Year	International Association of Advanced Materials (IAAM)	January 2017 & 777301912125	
Life Member	Materials Research Society of India (MRSI)	12 th March 2021 & LMB 3332	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
South Korea	2007-2008	PostDoctoral Research
Japan	2007/2008	Conference/Collaborative Research
Poland	2008	Conference/Collaborative Research
United States of America	2011	Conference/Collaborative Research
Singapore	2011/2014	Conference/Collaborative Research
China	2014	Conference/Collaborative Research
Sri Lanka	2016	Conference/Collaborative Research

21. Publications

(A) Refereed Research Journals:

Nation Author(s) P	onal Institute of Tec e Fith the fo r CV of Fa	hnology, Tirt ेशफ्रि ीStaff I	ıchirapp Volume Vembers	aplige No.(s)	Year	Impa ct Facto r of the Journ
						al (Opti onal)
E. G. Amrutha, K. Lakshmanamoorthy and S. Manivannan	Carbon dots decorated graphene oxide: Structure and Properties	Materials Today: Proceedings	Accepted		2022	
K. Lakshmanamoorthy, S. Manivannan	Silver Microrods Decorated Reduced Graphene Oxide Based Flexible Film for Room Temperature NH3 Vapor Sensing	Materials Today: Proceedings	In press		2022	
E. G. Amrutha and S. Manivannan	Carbon Dots-Based Ratiometric Fluorescence Sensor for Hippuric Acid	Phys. Status Solidi A	In press		2022	
K. Lakshmanamoorthy, S. Manivannan	Role of surfactants on the synthesis of copper (II) oxide nanosheets-rGO composites	Materials Today: Proceedings	49,	2584- 2587	2020	
K. Lakshmanamoorthy S Manivannan	Ionic liquids assist synthesis of Ag/AgX (X = Cl, Br, & F)-decorated rGO for visible light photocatalytic applications	J. Mater Sci: Mater Electron.	33	8724- 8733	2022	
N. Ambikeswari, and S. Manivannan	Structural, Magnetic, and Dielectric Properties of Ultrafine Nickel-Substituted Cobalt Ferrite-Reduced Graphene Oxide Nanocomposites	Journal of Electronic Materials	50	6135- 6148	2021	
Amreetha S, Manikandan K, S Manivannan, K. Jothivenkatachalam, Kaipannan S, Alagarsamy P, M Sathish, Venugopal Rao Soma, Dhanuskodi S, B Chakraborty	TiO2/Carbon allotrope nanohybrids for supercapacitor application with theoretical insights from density functional theory	Applied Surface Science	563	15025 9	2021	
D. Prakash, S. Manivannan	N, B co-doped and Crumpled Graphene Oxide Pseudocapacitive Electrode for High Energy Supercapacitor	Surfaces and Interfaces	23	10102 5	2021	

V. Mydhili, T. Kavinkumar, S. Manivannan	Poly(3,4- ethylenedioxythiophene): Poly(styrenesulfonate) coated three layer graphene-graphene oxide heterostructure for UV and IR detection	Materials Science and Engineering B	264	11493 2	2021	
D. Prakash, S. Manivannan	Unusual battery type pseudocapacitive behaviour of graphene oxynitride electrode: High energy solid-state asymmetric supercapacitor	Journal of Alloys and Compounds	854	15685 3	2021	
R. Dhayalan, S. Saravanan, S. Manivannan , B.Purna Chandra Rao	Development of ultrasonic waveguide sensor for liquid level measurement in loop system	Electronics Letters	56	1120- 1122	2020	
K. Lakshmanamoorthy, S. Manivannan	Microwave assisted covalent functionalization of ionic liquids on reduced graphene oxide	AIP Conference Proceedings	2265 (1)	03071	2019	
K. Balamurugan, P.S. Siva Sankaran, S. Manivannan	Magnetic vortex states in chromium (IV) oxide (CrO2)	J. Magnetism and Magnetic Materials	494	16584 5	2020	
P. Senthilkumar, D. Arockiya Jency, T. Kavinkumar, D. Dhayanithi, S. Dhanuskodi, M. Umadevi, S. Manivannan, N. V. Giridharan, V. Thiagarajan, M. Sriramkumar,and K. Jothivenkatachalam	Built-in Electric Field Assisted Photocatalytic Dye Degradation and Photoelectrochemical Water Splitting of Ferroelectric Ce Doped BaTiO3 Nanoassemblies	ACS Sustainable Chem. Eng.	7	12032 - 12043	2019	

D. Prakash, S. Manivannan	"Defect induced RGO-MnOx hybrid electrodes for supercapacitor applications	AIP Conference Proceedings	2115	03058	2018
S. Manikandan, A. Sundari, S. Manivannan	Effect of Cu2+ ion on single crystal of nonlinear optical material (glycinium oxalate)	J. Mater Sci: Mater Electron.	30	10711 - 10721	2019
V. Mydhili and S. Manivannan	Electrochemical and dielectric behavior in poly(vinyl alcohol)/ poly(3,4-ethylenedioxy-thiophene): poly(styrenesulf-onate) blend for energy storage applications	Polymer Bulletin	76	4735- 4752	2019
V. Mydhili, T. Kavinkumar, B. Neppolian and S. Manivannan	Electrochemical behaviour and temperature dependent electrical transitions in graphene oxide incorporated poly(vinyl alcohol)/ poly(3,4-ethylenedioxy-thiophene): poly(styrenesulf-onate) composites for dielectric and supercapacitor applications	Mater. Chem. Phys.	225	261- 271	2019
T Kavinkumar, L R Shobin, S. Manivannan	Effect of laser irradiation on electrical and gas sensing properties of reduced graphene oxide- graphene oxide heterostructure films	Journal of Alloys and Compounds	784	301- 312	2019
T Kavinkumar, P Kavitha, N Naresh, S Manivannan, M Muneeswaran, B Neppolian	High performance flexible solid-state symmetric supercapacitors based on laser induced porous	Applied Surface Science	489	671- 679	2019

	mades and amounts are a set of				
	reduced graphene oxide- graphene oxide hybrid				
	nanostructure devices				
N. Ambikeswari, and S. Manivannan	Superior magnetodielectric properties of room temperature synthesized superparamagnetic cobalt ferrite – graphene oxide	Journal of Alloys and Compounds	763	711- 718	2018
	composite				
Mydhili V, Deepjyoti Das, L. R. Shobin, and S. Manivannan	Surface analysis and electrothermal performance of highly uniform PEDOT:PSS spin-coated films using infrared thermography	AIP Conference Proceedings	1942,	08002	2018
N. Ambikeswari, and S. Manivannan	Effect of reaction time on the dielectric behaviour of reduced graphene oxide—layered cobalt hydroxide composite for high-k gate dielectrics	Materials Research Bulletin	100	7-14	2018
L.R. Shobin, and S. Manivannan	Enhancement of electrothermal performance in single-walled carbon nanotube transparent heaters by room temperature post-treatment	Solar Energy Materials and Solar Cells	174	469- 477	2018
L.R. Shobin and S. Manivannan	Silver nanowires-single walled carbon nanotubes heterostructure chemiresistors	Sensors and Actuators B: Chemical	256	7-17	2018
T. Kavinkumar and S. Manivannan	Improved dielectric behavior of graphene oxide-multiwalled carbon nanotube nanocomposite	Vacuum	148	149- 157	2018
T. Kavinkumar, K. Varunkumar, V. Ravikumar and S. Manivannan	Anticancer activity of graphene oxide-reduced graphene oxide-silver nanoparticle composites	J. Colloid and Interface Science	505	1125- 1133	2017
V. Mydhili and S. Manivannan	Effect of microstructure on the dielectric properties of poly (vinyl alcohol)/ poly (3,4- ethylenedioxy-thiophene doped with	J. Appl. Polym. Sci	45079	45079	2017

	poly(styrenesulf-onate)				
	composite films				
T.Kavinkumar,	Dielectric transition and				
P. Senthilkumar,	ferroelectric properties of	J. Eur. Ceram.		1401-	
S. Dhanuskodi and	graphene oxide-barium	Soc.	37	1409	2017
S. Manivannan	titanate nanocomposites	500.		1407	
5.Iviaiiivaiiiiaii	Thermal and dielectric				
T. Kavinkumar and S. Manivannan	properties of multi- walled carbon nanotube- graphene oxide composite	J. Mater Sci: Mater Electron.	28	344- 353	2017
M. B. Sobhanan and S. Manivannan	Automation of Pulsed Thermography using Computer Numerical Controlled Manipulator for CFRP Circular Parabolic Honeycomb Structures	International Journal of Scientific and Engineering Research	7	137- 141	2016
T. Kavinkumar and S. Manivannan	Synthesis, Characterization and Gas Sensing Properties of Graphene Oxide- Multiwalled Carbon Nanotube Composite	Journal of Materials Science and Technology	32	626- 632	2016
T. Kavinkumar and S. Manivannan	Uniform decoration of silver nanoparticle on exfoliated graphene oxide sheets and its ammonia gas detection	Ceramics International	42	1769- 1776	2016
L.R. Shobin and S. Manivannan	Optically Transparent, Electrically Conducting Single Walled Carbon Nanotubes Random Networks for Room Temperature Ammonia Vapor Sensing	Materials Science in Semiconductin g Processing	40	931- 938	2015
L.R. Shobin and S. Manivannan	Carbon nanotubes on paper: Flexible and disposable chemiresistors	Sensors and Actuators B: Chemical	220	1178- 1185	2015
T. Kavinkumar, D. Sastikumar and S. Manivannan	Effect of functional groups on dielectric, optical gas sensing properties of graphene oxide and reduced graphene oxide at room temperature	RSC Advances	5	10816 - 10825	2015

L.R.Shobin,	Room temperature	Proceedings of	9270,		
S. Manivannan	Room temperature ammonia vapor sensing properties of transparent single walled carbon nanotube thin film	SPIE	ŕ	92701 M	2014
T. Kavinkumar, D. Sastikumar, S. Manivannan	Reduced grapheme oxide coated optical fiber for methanol and ethanol vapor detection at room temperature	Proceedings of SPIE	9270,	92700 U	2014
L.R.Shobin, and S. Manivannan	One Pot Rapid Synthesis of Silver Nanowires Using NaCl Assisted Glycerol Mediated Polyol Process	Electronic Materials Letters	10	1019- 1023	2014
S. Manikandan, T. C. Sabari Girisun, R. Mohandoss, S. Dhanuskodi, and S.Manivannan	Third-order NLO properties of solution grown methyl-p-hydroxy benzoate single crystals	Optics and Spectroscopy	117	469– 473	2014
L.R.Shobin, D.Sastikumar, S. Manivannan	Glycerol mediated synthesis of silver nanowires for room temperature ammonia vapor sensing	Sensors and Actuators A: Physical	214	74-80	2014
L.R.Shobin, B.Renganathan, D.Sastikumar, Kyu Chang Park, S. Manivannan	Pure and Iso-Butyl Methyl Ketone Treated Multi-Walled Carbon Nanotubes for Ethanol and Methanol Vapor Sensing	IEEE Sensors Journal	14	1238- 1243	2014
T.Seethalakshmi, S. Manivannan, S.Dhanuskodi, Daniel E Lynch, S. Thamotharan	4-Hy-droxy-1,2,6-tri- methyl-pyridinium bromide monohydrate	Acta Crystallogr Sect E	E69	941- 942	2013
T.Seethalakshmi, S.Manivannan, S.Dhanuskodi, Daniel E Lynch, S. Thamotharan	4-Hydroxy-1,2,6-tri- methylpyridinium chloride monohydrate	Acta Crystallogr Sect E	E69	0835- 0836	2013
S. Manivannan, A.M. Saranya, B. Renganathan, D. Sastikumar, G. Gobi, Kyu Chang Park	Single-walled carbon nanotubes wrapped poly- methyl methacrylate fiber optic sensor for ammonia, ethanol and	Sensors and Actuators B: Chemical	171– 172	634– 638	2012

	methanol vapors at room temperature				
S. Manivannan, L. R. Shobin; A. M. Saranya; B.Renganathan; D.Sastikumar; Kyu Chang Park	Carbon nanotubes coated fiber optic ammonia gas sensor	Proceedings of SPIE	7941,	79410 M-1	2011
S. Manivannan, Je Hwang Ryu, Jin Jang, Kyu Chang Park	Fabrication and effect of post treatment on flexible single-walled carbon nanotube films	J. Mater Sci: Mater Electron.	21	595- 602	2010
S. Manivannan, Je Hwang Ryu, Han Eol Lim, M. Nakamoto, Jin Jang, Kyu Chang Park	Properties of surface treated transparent conducting single walled carbon nanotube films	J. Mater Sci: Mater Electron.	21	72-77	2010
S. Manivannan, Il Ok Jeong, Je Hwang Ryu, Chang Seok Lee, Ki Seo Kim, Jin Jang, Kyu Chang Park	Dispersion of single- walled carbon nanotubes in aqueous and organic solvents through a polymer wrapping functionalization	J. Mater Sci: Mater Electron.	20	223– 229	2009
Chang Seok Lee, Je Hwang Ryu, Han Eol Lim, Kyung Woo Min, Il Ok Jeong, S. Manivannan, Ki Seo Kim, Jin Jang and Kyu Chang Park	Electron Emission from Robust CNTs Grown by Resist-Assisted Patterning	J. Korean Physical Society	53	2735- 2738	2008
S. Manivannan, Il Ok Jeong, Je Hwang Ryu, Chang Seok Lee, Ki Seo Kim, Jin Jang and Kyu Chang Park	Purification and Preparation of Single- Walled Carbon Nanotube Films	J. Korean Physical Society	53	2549- 2553	2008
S. Manivannan, S. Dhanuskodi, S.K. Tiwari, J. Philip	Laser induced surface damage, thermal transport and microhardness studies on certain organic and	Appl. Phys. B	90	489- 496	2008

	semiorganic nonlinear				
S. Dhanuskodi, S. Manivannan, J. Philip	optical crystals Synthesis, spectral, optical and thermal studies of 1-methyl-2,6- dimethyl-4- hydroxypyridinium chloride monohydrate and bromide monohydrate	Spectrochimic a Acta Part A	69	1207- 1212	2008
T. Seethalakshmi, S. Manivannan, Daniel E. Lynch, S. Dhanuskodi and P. Kaliannan	1-Ethyl-4-hydroxy-2,6- dimethyl-pyridinium bromide dihydrate	Acta Crystallogr Sect E	E63	o599– o601	2007
A. Pricilla Jeyakumari, S. Manivannan, S. Dhanuskodi	Spectral and Optical Studies of 2-amino-5- nitropyridinium dihydrogen phosphate: A Semiorganic Nonlinear Optical Material	Spectrochimic a Acta Part A	67	83-86	2007
S. Dhanuskodi, A. Pricilla Jeyakumari, S. Manivannan , J. Philip, S.K. Tiwari	Semiorganic nonlinear optical material for frequency doubling: Preparation and properties of sodium pnitrophenolate dihydrate (SPNP)	Spectrochimic a Acta Part A	66	318- 322	2007
S. Manivannan, S. Dhanuskodi, K. Kirschbaum, S.K. Tiwari	Role of anions in inducing noncentrosymmetry in 4-dimethylaminopyridiniu m salts for quadratic nonlinear optics	Crystal Growth & Design	6	1285- 1290	2006
S. Dhanuskodi, S. Manivannan, K. Kirschbaum	Synthesis, structural, thermal and optical studies of 1-ethyl-2,6- dimethyl-4-hydroxy pyridinium halides	Spectrochimic a Acta Part A	64	504- 511	2006
S. Dhanuskodi, S. Manivannan, K. Kirschbaum, J. Philip, S. Selladurai	Structural, thermal and dielectric studies on a new solution grown 4-dimethylaminopyridiniu m dihydrogen phosphate crystal	J. Crystal Growth	290	548- 553	2006

A. Pricilla Jeyakumari, S. Dhanuskodi, S. Manivannan	Phase matchable semiorganic NLO material for frequency doubling: 1-Arginine tetrafluoroborate Semiorganic NLO material for short	Spectrochimic a Acta Part A	63	91-95	2006
A. Pricilla Jeyakumari, S. Manivannan	wavelength generation 2- amino-5-nitropyridinium bromide	Growth	282	72-78	2005
S. Manivannan, S. Dhanuskodi, K. Kirschbaum, S.K. Tiwari	Design of an efficient solution grown semiorganic NLO crystal for short wavelength generation: 2-amino-5-nitropyridinium tetrafluoroborate	Crystal Growth & Design	5	1463- 1468	2005
S. Manivannan, S.K. Tiwari, S. Dhanuskodi	Spectral, thermal and SHG studies on phase matchable organic NLO material EDMP for blue- green laser generation	Solid State Communicatio ns	132	123- 127	2004
S. Manivannan, S. Dhanuskodi	Synthesis, growth, structural, optical and thermal properties of a new semiorganic crystal: 4- dimethylaminopyridiniu m dihydrogen phosphate	Crystal Growth & Design	4	845- 850	2004
S. Dhanuskodi, S. Manivannan, J. Philip	Growth, structural, thermal and optical properties of organic NLO crystal: N-methyllutidone trihydrate"	J. Crystal Growth	265	284- 289	2004
S. Manivannan, S. Dhanuskodi	Synthesis, crystal growth, structural and optical properties of an organic NLO material	J. Crystal Growth	262	473- 478	2004
S. Dhanuskodi, S. Manivannan	Quadratic organic nonlinear optical material: bis-2,7- diethylaminohepta-2,5- dien-4-one	J. Crystal Growth	262	395- 398	2004
S. Manivannan, S. Dhanuskodi	Growth and characterization of a new	J. Crystal Growth	257	305 - 308	2003

	organic nonlinear optical crystal: semicarbazone of p-dimethylamino benzaldehyde					
S. Dhanuskodi, S. Manivannan	Crystal growth and characterization of a novel organic nonlinear optical material: semicarbozone of pdimethylamino benzaldehyde	Proceedings of SPIE	4970.	137- 149	2003	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedi	Page numbe rs	Conference Theme	Venue	Year
E. G. Amrutha, K. Lakshmanamoorthy and S. Manivannan	Carbon dots decorated graphene oxide: Structure and Properties	Materials Today: Proceedi ngs	Accept ed	6th International Conference on Recent Advances in Material Chemistry	SRMIST , SRM Universit y, Tamil Nadu, India.	2022
K. Lakshmanamoorthy, S. Manivannan	Silver Microrods Decorated Reduced Graphene Oxide Based Flexible Film for Room Temperature NH3 Vapor Sensing	Materials Today: Proceedi ngs	In press	6th International Conference on Recent Advances in Material Chemistry	SRMIST , SRM Universit y, Tamil Nadu, India.	2022

K. Lakshmanamoorthy, S. Manivannan	Role of surfactants on the synthesis of copper (II) oxide nanosheets-rGO composites	Materials Today: Proceedi ngs	49, 2584- 2587	International Virtual Conference on Advanced Nanomaterials for Energy and Environment Applications (ICANEE-2020)	Alagapp a Universit y & Brunel Universit y Jointly Organize s India— UK.	2020
K. Lakshmanamoorthy, S. Manivannan	Microwave assisted covalent functionalization of ionic liquids on reduced graphene oxide	AIP Conferen ce Proceedi ngs	2265 (1), 030710	64th DAE Solid State Physics Symposium (DAE-SSPS 2019)	IIT Jodhpur, Rajastha n, India.	2019
D. Prakash, S. Manivannan	"Defect induced RGO-MnOx hybrid electrodes for supercapacitor applications	AIP Conferen ce Proceedi ngs	2115, 030581	63rd DAE Solid State Physics Symposium (DAE-SSPS 2018)	Guru Jambhes hwar Universit y of Science and Technolo gy, Hisar, Haryana	2018
Mydhili V, Deepjyoti Das, L. R. Shobin, and S. Manivannan	Surface analysis and electrothermal performance of highly uniform PEDOT:PSS spin-coated films using infrared thermography	AIP Conferen ce Proceedi ngs	1942, 080024	62nd DAE Solid State Physics Symposium (DAE-SSPS 2017)	BARC, Mumbai, India	2017
L.R.Shobin, S. Manivannan	Room temperature ammonia vapor sensing properties of transparent single walled carbon nanotube thin film	Proceedi ngs of SPIE	9270, 92701 M	SPIE Photonics Asia	Beijing, China	2014
T. Kavinkumar, D. Sastikumar, S. Manivannan	Reduced grapheme oxide coated optical fiber for methanol and ethanol vapor detection at room temperature	Proceedi ngs of SPIE	9270, 92700U	SPIE Photonics Asia	Beijing, China	2014

S. Manivannan,	Carbon nanotubes	Proceedi	7941,	SPIE-Photonics	San	2011
L. R. Shobin;	coated fiber optic	ngs of	79410	West 2011,	Francisc	
A. M. Saranya;	ammonia gas sensor	SPIE	M-1	OPTO –	ο,	
B.Renganathan;				Integrated	Californi	
D.Sastikumar;				Optics: Devices,	a, USA	
Kyu Chang Park				Materials, and		
				Technologies		
				XV		
S. Dhanuskodi,	Crystal growth and	Proceedi	Vol.49	International	San Jose,	2003
S. Manivannan	characterization of a	ngs of	70,	Conference on	Californi	
	novel organic	SPIE	pp.137-	Laser Crystals,	a, USA	
	nonlinear optical		149	Glasses and		
	material:			Nonlinear		
	semicarbozone of p-			Materials		
	dimethylamino			Growth and		
	benzaldehyde			Characterization		
				(LASE 2003)		

(C) Books & Monographs

Author(s)	Title of	Name of	Year of	ISSN/ISBN
	Book/Monograph	Publishers	Publication	Number
Chang-Seok Lee,	Growth Mechanism	EKC2008	2008	Vol.124,
Je-Hwang Ryu,	of Nitrogen	Proceedings of the		Part 2,
Han-Eol Im,	Incorporated Carbon	EU-Korea		249-257.
S. Manivannan,	Nanotubes with RAP	Conference on		
Didier Pribat, Jin Jang,	Process	Science and		
Kyu-Chang Park		Technology,		
		Springer		
		Proceedings in		
		Physics		

D) Patents

S. No.	Title of the patent	Name of Inventors	Granted/Filed
1	Gas Sensor Based on Nanowires and Carbon Nanotubes Heterostructure	L.R Shobin and S. Manivannan	Filed on 10 Jan. 2017 (App. No.201741000938)
2	An Improved Transparent Electrothermal Device	L.R Shobin and S. Manivannan	Filed on 11 Jan. 2017 (App. No.201741001065)