

National Institute of Technology, Tiruchirappalli:
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Curriculum Vitae



Dr. A. Chandra Bose received his Ph.D in the area of nanocrystalline materials from University of Madras in the year 2002. He pursued his post-doctoral research in NIMS and AIST, Tsukuba, Japan till the year 2006. He joined the Department of Physics from the year 2006. His current research interest is in the synthesis and characterization of oxide nanoparticles, Supercapacitors, Photoluminescence and Photocatalysts.

1. Name: Dr. A.Chandra Bose
2. Designation: Associate Professor
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Telephone : Extn (Optional):
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5. Email (Primary): acbose@nitt.edu Email (Secondary) :
acbose007@yahoo.com
6. Field(s) of Specialization:
Micro plasma and surface science, Nanomaterials,
Metal oxides, Photocatalysts, Luminescent materials,
Supercapacitor, LEDs, Bio imaging, Impedance
spectroscopy, Electron microscopy
7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT Trichy	2010	Till date
Assistant Professor	NIT Trichy	2007	2010
Lecturer	NIT Trichy	2006	2007

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

Postdoctoral Fellow	AIST JAPAN	2004	2006
Postdoctoral Fellow	NIMS JAPAN	2002	2004

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D in Physics	University of Madras	2002	Highly commended	
M.Phil. in Physics	Madurai Kamaraj University	1995	74% First Class	
M.Sc. in Physics	Madurai Kamaraj University	1993	67% First Class	
B.Sc. in Physics	Madurai Kamaraj University	1991	78.2% First Class with Distinction	
XII Std.	Tamil Nadu higher secondary board	1988	72%	
X Std.	Tamil Nadu Board	1986	82.2%	

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
HOD	Department of Physics	2012	2015
M.Sc.Co-ordinator	Department of physics	2015	Till date
B-Tech subject co-ordinator	Department of physics	2009	2010
Hospital Committee	NITT Hospital bill monitoring	2008	2010
NBA Accreditation Committee	Physics, Document preparation , overall monitoring	2008	2008
Convocation	Institute-security committee	2008	2011

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

committee			
DC member	Conducting regular meeting	All the year	
Purchase committee member	Purchase of all major and minor equipments	All the year	
Ph.D Admission	Entrance Exam, interview etc	2010,2011	2012
Review Committee	Revision of rules and Regulations of UG, PG and ph.D programmes	2012	2012

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
BOS member	Bannari Amman Institution	2014	2015
Reviewer	RSC,ACS,ELSEVIER, Springer	All years	
DC Member	Barathidhasan university	2012	Till date
DC Member	Karunya University	2012	2015
purchase committee member	PSR engineering college		
purchase committee member	Bharadidhasan University		

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1998	Young Scientist Award (Travel grant)	International School on powder diffraction, Indian Association for the Cultivation of Science
2008	Young Scientist Award	DST
2010	Best Teacher Award in NIT	NITT
2010	Young Achiever Award	DAE Symposium
2012	Chaired a session in ICEAN Brisbane, Australia	ICEAN
2014	Chaired a session in IMEC – NIT Trichy	NIT TRICHY
2015	Fellow Academy of Sciences, Chennai	Tamilnadu Academy of Science Chennai

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2000	Senior Research Fellowship of CSIR	CSIR	2000	2002

13. Details of Academic Work

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

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

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Development of microplasma spraying technique for the preparation of nanomaterials for gas sensor applications	DST-Fast Track	2007	2010	Completed
Development and characterization of one dimensional oxide nanomaterials for gas sensing applications	NRB-DNRD	2009	2012	Completed
Synthesis and Characterization of Nanomaterials for Engineering Applications.	DST-Nano-mission	2009	2012	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr. R. Srinivasan	Synthesis and study of pure and rare earths doped Y_2O_3 and CeO_2 nanoparticle	Supervisor	2011
Dr. N. Rajeswari Yogamalar	Synthesis, characterization and rectification study of Zn homo and hetro pn-junctions.	Supervisor	2011
Dr. K. Venkateswaralu	Surface modification of titanium	Co-Supervisor	2014

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

	by micre arc oxidation and characterization for biomedical application		
Dr. A. Chithambararaj	Synthesis and characterization of MoO ₃ nanocrystals : A new finding on vislible light driven photocatalysis	Supervisor	2015
Dr.T. Selvalakshmi	Photoluminescence, Positron annihilation and bioimaging studies on Gd ₂ O ₃ :RE ³⁺ Al ³⁺ and GdAlO ₃ :RE ³⁺ Ba ³⁺ (RE=Dy,Eu) phosphors	Supervisor	2016

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
May 26-28, 2016.	RGO/MoO ₃ nanocomposites :Environmental and Energy Application	National	Any other	Symposium on Advanced Functional Materials, CSIR Karaikudi, India.	CSIR Karaikudi, India
May 25-29, 2016	Effect of annealing temperature on crystalline formation and electrochemical behaviourof ε-MnO ₂ nanoparticles	International	Any other	International Conference of Nanotechnology for Better Living (ICNBL – 2016), NIT Srinagar, India	NIT Srinagar, India
May 25-29, 2016	Electrochemical performance of ZnCO ₂ O ₄ nanoparticles	International	Any other	International Conference of Nanotechnology for Better Living (ICNBL – 2016), NIT Srinagar, India	NIT Srinagar, India
May 25-29, 2016.	Hydrothermal synthesis of MoS ₂	International	Any other	International Conference of	NIT Srinagar, India

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

	for super capacitor applications,			Nanotechnology for Better Living (ICNBL – 2016), NIT Srinagar, India	
December 21-25, 2015.	Structure evolution of tetragonal MnO ₂ and its electrochemical behaviour,	National	Any other	60 th DAE Solid state physics Symposium (DAE-2015), Amity University, Noida, Uttar Pradesh, India	Amity University, Noida, Pradesh, India
December 21-25, 2015.	Photoluminescence and energy transfer process in Gd ₂ O ₃ :Eu ³⁺ , Tb ³⁺	National	Any other	60 th DAE Solid state physics Symposium (DAE-2015), Amity University, Noida, Uttar Pradesh, India	Amity University, Noida, Pradesh, India
, December 14-15, 2015.	Synthesis, Characterization and Photocatalytic activity of Ag ₃ PO ₄	International	Any other	International Conference on Recent Advances in Materials and Chemical Sciences, (ICRAMCS-2015), ,	Gandhigram Institute-Deemed University, Gandhigram
December 14-15, 2015.	Electrochemical Performance of ZnCo ₂ O ₄ anode material in the Na ₂ SO ₄ electrolyte medium	International	Any other	International Conference on Recent Advances in Materials and Chemical Sciences, (ICRAMCS-2015), Gandhigram Rural Institute-Deemed University, Gandhigram,	Gandhigram Institute-Deemed University, Gandhigram
February 9-12, 2015.	Photoluminescence and positron lifetime study on Gd ₂ O ₃ :Eu ³⁺ ,	International	Any other	International conference on luminescence and its application 2015 (ICLA-2015),	PES college, Bangalore,
December. 16-20, 2014.	Synthesis and characterization of α -MnO ₂ electrode for supercapacitor application	National	Any other	59 th DAE SSPS,	VIT, Vellore,
December. 16-20, 2014.	Visible Light Assisted Degradation of Organic Dye Using Ag ₃ PO ₄	National	Any other	59 th DAE SSPS,	VIT, Vellore,
December. 16-20, 2014	Effect of reactant solvent medium on structural and electrical properties	National	Any other	59 th DAE SSPS	VIT, Vellore

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

	of h-MoO ₃ nanocrystals,				
	Autoclave mediated selective phase synthesis of MoO ₃ nanocrystals for enhanced optical and electrical properties	National	Any other	5 th DAE-BRNS Interdisciplinary Materials Chemistry (ISMC 2014)	BARC, Mumbai, Dec 2014.
December 16-20, 2014	Structural, optical and electrical properties of GdAlO ₃ :Eu ³⁺ Ba ²⁺	National	Any other	59th DAE SSPS,	VIT, Vellore,
March 3-5, 2014	h-MoO ₃ : Invention of visible light driven nano-photocatalyst for methylene blue dye degradation	International	Any other	6 th International Conference On Nano Science And Technology (ICONSAT-2014),	The Institute of Nano Science Technology (INST), Mohali, Punjab, India,
February 28-March 1, 2014.	Investigation on structural and thermal properties of Ammonium Heptomolybdate (AHM),	National	Any other	National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS 2014),	Kalasalingam University, KrishnanKovil
February 19-21, 2014.	Effect of Dy ³⁺ concentration on the photoluminescence property of Gd ₂ O ₃ :Dy ³⁺	National	Any other	National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerala	National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerala
February 28-March 1, 2014	Structural, absorption and emission study on Yttrium Oxide doped with Europium ions	National	Any other	National Seminar on Technologically Important Crystalline and Amorphous Solids (TICAS 2014)	Kalasalingam University, KrishnanKovil
Dec (16-20) - 2013.	Investigation of structural, optical and gas sensing properties of Molybdenum trioxide thin film	International	Any other	International Conference in Asia - 2013 (IUMRS-ICA 2013), International Union of Materials Research Society	Materials Research Society of India at Indian Institute of Science Bangalore-560
Aug. 28, 2013.	Molybdenum oxide – A new findings of efficient visible		Any other	Young Scientists' Colloquium-2013,	Materials Research Society India (MRSI),

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

	light driven nano-photo-catalyst for dye degradation				Kolkata, India
December 17-21, 2013	Photoluminescence and Energy Transfer Study on Gd ₂ O ₃ :Eu ³⁺ , Al ³⁺ ,	National	Any other	58 th DAE Solid State Physics Symposium	Thapar University, Patiala
January 8-10, 2013,	Structural and luminescent study on Gd ₂ O ₃ :Eu ³⁺ codoped with Tb ³⁺ synthesized by sol-gel Method	National	Any other	, National Conference on Luminescence and its Applications (NCLA – 2013)	PES Institute of Technology, Bengalurev
September 19-20, 2013,	Structural, optical and morphological study on Gd ₂ O ₃ :Eu ³⁺ prepared by sol-gel method	National	Any other	National Conference on Chemosensor (NCC – 2013)	National Institute Technology, Trichy
Sep. 3-6, 2013.	Synthesis of flower-like hierarchical h-MoO ₃ and layered α -MoO ₃ nanocrystals: Photo degradation studies of methylene blue under visible light irradiation	International	Any other	ISACS12-UK,	ISACS12-UK,
July 24-26, 2013.	Structural, optical and morphological study onGd ₂ O ₃ :Eu ³⁺ ,	International	Any other	International Conference on Advanced Nanomaterials and Emerging Engineering Technologies (ICANMEET – 2013),	Sathayabama University, Chennai
June 30 – 5 July, 2013.	Synthesis of Pure and Ag Loaded Flower Like Hierarchical h-MoO ₃ : Studies on Structural, Thermal, Optical and Electrical Properties	International	Any other	International Conference on Materials for Advanced Technologies (ICMAT-2013),	Suntec Singapore,
Feb. 22-23, 2013	Synthesis of 1D h-MoO ₃ by solution based precipitation	National	Any other	National conference on advances in naval materials	National Institute Ocean Technology

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

	methods and investigations on gas sensor applications			(ADAM-2013)	(NIOT), Chennai,
March 01-02, 2013	Study on Structural and Optical Properties of Dy ³⁺ doped h-MoO ₃ ,	National	Any other	National seminar on Technologically Important Crystalline and Amorphous Solids (TICAS-2013),	Kalasalingam University, Virudhunagar, Tamilnadu
Feb. 01-02, 2013.	Hydrothermal synthesis of 1D h-MoO ₃ : Structural and thermal properties	International	Any other	International Conference on Recent Trends in Applied Physics & Material Science (RAM-2013),	College Engineering Technology, Rajasthan,
Jan. 28-30 2013.	Synthesis of pure and Ni doped h-MoO ₃ nanocrystals	International	Any other	Second International Workshop on Advanced Functional Nanomaterials - (SIWAN 2013	Anna University, Chennai-25, Tamilnadu
January 8-10 2013.	Structural and Luminescent Study On Gd ₂ O ₃ :Eu ³⁺ Codoped With Tb ³⁺ Synthesized By Sol-Gel Method	National	Any other	National Conference on Luminescent and its Applications,	
7-10 February 2012.	Synthesis and Characterization of Erbium doped Yttrium Oxide nanoparticles	International	Any other	4th International Conference on Luminescence and it's Applications (ICLA 2012),	Indian Institute of Chemical Technology (IICT), Hyderabad, Andra Pradesh
December 3-7, 2012	Effect of dopant concentration on photoluminescence properties of Gd ₂ O ₃ :Eu ³⁺ ,	International	Any other	International Conference on Advanced Nanomaterials and Emerging Engineering Technologies (ICANMEET - 2013),	Indian Institute of Technology, Bombay
December 10-12, 2012.	GMR based Eddy Current Testing of Stainless Steel Plates and Welds	National	Any other	Non-Destructive Evaluation Technical Proceeding of National Seminar and Exhibition,	

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

				ISNT Delhi chapter	
, November 2-4 2012.	Optical study on gadolinium oxide nanoparticles synthesized by hydrothermal method,	International	Any other	International conference on advances in materials and processing, challenges and opportunities (AMPCO 2012)	IIT, Roorkee
Oct. 22 – 25, 2012.	Study of microwave assisted growth of meta-stable h-MoO ₃ nanocrystals,	International	Any other	International Conference on Emerging Advanced Nanomaterials (ICEAN),	Brisbane, Australia
Nov 2-4 2012.	Effect of mineralizer (KNO ₃) on the structural and optical properties of h-MoO ₃ nanocrystals	International	Any other	International conference on advances in materials and processing, challenges and opportunities (AMPCO 2012),	IIT, Roorkee
September 12 – 14, 2012.	Sol-Gel Synthesis of Gadolinium Oxide Host Matrix For Luminescent Application	National	Any other	National Seminar on New Materials Research and Nanotechnology	Government College, Ooty
March 13-16, 2012.	Crystallite size and shape controlled synthesis of h-MoO ₃ nanocrystals via microwave-assisted method,	International	Any other	International conference and workshop on nanoceramics and nanomaterials (ICWCN-2012),	Delhi university, Delhi
March 07-08, 2012.	Synthesis of hexagonal molybdenum oxide nanocrystals: study of solvent effects on structural and optical properties,	National	Any other	National conference nano fiesta 2K12	Mepco Schlenk Engineering College, Tamil
March 02-03, 2012.	Preparation, characterization and study of structural and optical properties of h-MoO ₃ ,	National	Any other	National seminar on technologically important crystalline and amorphous solids (TICAS-2012),	Virudhunagar, Tamilnadu
Feb. 27-29, 2012.	Microwave assisted ultra fast synthesis of 1-D	International	Any other	International conference on key engineering	Singapore

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

	molybdenum oxide nanocrystals: structural and electrical studies,			materials (ICKEM-2012),	
January 19-23, 2012.	Synthesis of h-MoO ₃ by chemical precipitation method	International	Any other	International conference on nanoscience and nanotechnology (ICONSAT-2012),	Hyderabad, Andre Pradesh
July 26-28, 2012	Microwave assisted ultra fast synthesis of 1-D molybdenum oxide nanocrystals: structural and electrical studies	International	Any other	International conference on key engineering materials (ICKEM-2012),	Singapore
March 13-16, 2012.	Crystallite size and shape controlled synthesis of h-MoO ₃ nanocrystals via microwave-assisted method,	International	Any other	International conference and workshop on nanoceramics and nanomaterials (ICWCN-2012),	Delhi university, Delhi
, January 19-23, 2012.	Synthesis of h-MoO ₃ by chemical precipitation method	International	Any other	International conference on nanoscience and nanotechnology (ICONSAT-2012),	Hyderabad, Andre Pradesh
December 19-23, 2011.	Synthesis, characterization and rectification study of ZnO based homo- & hetero PN junctions	National	Any other	56th DAE solid state symposium	
December 19-23, 2011.	Effect of precipitating agents on tin oxide nanoparticles synthesized by co-Precipitation Method	National	Any other	56th DAE solid state symposium	SRM university, Tamilnadu, India
December 19-23, 2011.	Hydrothermal synthesis of molybdenum oxide microbelts	National	Any other	56th DAE solid state symposium 2011	SRM university, Tamilnadu, India
August 14-17, 2011	Ultra fast synthesis of meta-stable MoO ₃ nanocrystals: a study on	International	Any other	Chandra Bose in the "International Conference on Frontiers in	Cochin, India,

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

	structural, thermal, optical and electrical properties			Nanoscience and Technology (Cochin Nano-2011)”	
July 06-08, 2011	Conventional, hydrothermal and microwave methods on the synthesis of 1D hexagonal molybdenum oxide (h-MoO ₃) nanocrystals	International	Any other	International conference on “Nanoscience and Nanotechnology (ICNN-2011)”	Coimbatore Institute of Technology, Coimbatore
Dec. 03-04, 2010	Investigation on structural, thermal, and optical properties of meta-stable hexagonal MoO ₃ Nanorod	National conference	Any other	the National conference on nanomaterials	Karunya University, Coimbatore
October 29-31, 2010.	Preparation of hexagonal molybdenum oxide (h-MoO ₃) by precipitation method with HCl	International	Any other	International conference on recent trends in materials science and technology	Institute of Science Technology (IIST), Thiruvananthapuram
January 11-13, 2010	Synthesis and Characterization of molybdenum oxide nanorod by hydrothermal method	International	Any other	International Conference on Materials for the Millenium -MatCon 2010	Cochin, Kerala,
January 11-13, 2010.	Structural Characterization of Cerium doped Ytria nanoparticles	International	Any other	International Conference on Materials for the Millenium -MatCon	Cochin, Kerala
2010	Samaria doped ceria nanowires for luminescence applications		Any other	NLCA 2010	Gandhigram University, Gandhigram
January, 2009.	Synthesis and characterization of Ni doped tin oxide nanorods for gas sensing application	International	Any other	Second International Conference on Frontiers in Nano Science and Technology	CUSA T
January, 2009	Microwave synthesis and characterization of nanocrystalline yttrium oxide	International	Any other	Second International Conference on Frontiers in Nano Science and Technology(Cochin nano-2009),	CUSAT
January, 2009.	Modified form of	International	Any other	Second International	CUSAT

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

	WH analysis in ZnO nanospheres synthesized by chemical co-precipitation method,			Conference on Frontiers in Nano Science and Technology (Cochin nano-2009),	
2009	Sol-gel derived Ni doped SnO ₂ for ethanol gas sensor,	National	Any other	54th DAE Solid State Physics Symposium	MS University, Vadodara.
2009	Dopant effects on the structure and optical properties of ZnO nanoparticles grown under hydrothermal method	National	Any other	54th DAE Solid State Physics Symposium (2009)	MS University, Vadodara
2009	Structural and thermal properties of nanocrystalline molybdenum oxide by solution precipitation method,	National	Any other	54th DAE Solid State Physics Symposium	MS University,
2009	Structural and optical properties of samaria doped ceria nanoparticles for luminescence applications,	National	Any other	54th DAE Solid State Physics Symposium	MS University, Vadodara
December ,11-13,2008	Microwave assisted synthesis and characterization of Europium doped Yttrium oxide nanoparticles for luminescence applications	International	Any other	International Conference on Nanomaterials and Devices:Processing and Applications (NADP-2008)	IIT Roorkee
3-17 December 2008,	Nanocrystalline SnO ₂ coating on a optical fiber for ammonia sensing	International	Any other	International conference on fiber optics & photonics,	IIT Delhi, India
December ,11-13,2008	Crystalline size and lattice strain contributions to the X-ray diffraction peak broadening in ZnO nanorods	International	Any other	International Conference on Nanomaterials and Devices:Processing and Applications	IIT Roorkee
2008	Study of undoped and lead doped ZnO	National	Any other	53rd DAE Solid State Physics	

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

	nanostructures			Symposium	
2008	Microwave synthesized ceria nanoparticles coated optical fiber for ammonia gas sensing	National	Any other	53rd DAE Solid State Physics Symposium (2008	
, 2008,	Convenient size and morphology control of ZnO nanoparticles through polymer-cationic interaction	National	Any other	Advanced Materials and Characterization	Vellore Institute Technology.
, 2008,	Microwave synthesis and characterization of Nanoparticles	International	Any other	International Conference of Advanced Materials and Characterization	Vellore Institute Technology.
2008	Synthesis of hexagonal type zinc oxide nanorods under hydrothermal condition	National	Any other	Functional Materials	IIT Madras
2008	Co-doped ZnO nanoparticles: Synthesis, Characterization, Structural and optical study	National	Any other	NADPA 2008	IIT Roorkee
2008	Influence of iron dopant on structure, surface morphology and optical properties of ZnO nanostructures	National	Any other	NADPA 2008	IIT Roorkee.
	Formation of ZnO nanoparticles under low temperature hydrothermal synthesis	International	Any other	International Conference of Nanoscience and Nonotechnology	Karunya University, Coimbatore
2007	Synthesis and Structural Studies on Nanocrystalline Yttrium oxide	National	Any other	52nd DAE solid State Physics Symposium	Mysore Unive Mysore
	Surfactant assisted growth of ZnO nanostructures by hydrothermal process	International	Any other	International conference of Material Science Research and Nanotechnology	Kodaikanal.

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

	Samarium doped yttrium oxide nanoparticles for LED applications	International	Any other	International conference of Material Science Research and Nanotechnology	Kodaikanal.
	Structural and thermal studies of nano zinc oxide	International	Any other	International conference of Material Science Research and Nanotechnology	Kodaikanal.
2002.	A Study on Precursor Concentration Variations in Nanocrystalline SnO ₂ by CO – Precipitation Method,	National	Any other	National conference on EMT for India	
2007	Nanocrystalline Ytria – a structural study,	National	Any other	National Conference	Karunya Institute Technology, Coimbatore.
March 6-7, 2007,	Preparation and characterization of cobalt oxide doped nanocrystalline tin oxide,	National	Any other	SFR Women's college, Sivakasi.	SFR Women's college, Sivakasi
March 6-7, 2007,	Structural studies on stabilization of cobalt oxide doped nanocrystalline zirconium oxide	National conference	Any other	SFR Women's college, Sivakasi	SFR Women's college, Sivakasi
,February, 4-6, 2007,	Formation of nanorods by a simple atmospheric pressure microplasma technique,	International	Any other	International conference on Nanomaterials and its Applications	Department Chemistry, National Institute Technology
February, 4-6, 2007,	Gas phase synthesis of Nanocrystalline Zinc Selenide and microstructure,	International	Any other	International conference on Nanomaterials and its Applications	Department Chemistry, National Institute Technology
March 25, 2006	Nanorods formation and flow rate variation study on Molybdenum oxide using Atmospheric	National	Any other	JSAP meeting (National level-Oyobuturi)	Japan.

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

	Pressure Microplasma technique,				
March 9, 2006	Structural and Morphological changes in Molybdenum oxide by Flow-rate variation in microplasma technique Any other	National	Any other	National work shop on Nanoarchitectonics	Nanoarchitecto Research center, AIST, Tsukuba, Japan.
April 17-21, 2006,	on Nanorods formation and flowrate variation study on Molybdenum oxide using Atmospheric Pressure Microplasma technique,	International	Any other	MRS spring meeting	Sanfrancisco, USA,
August 26-28, 2006,	Structural and Morphological changes in Molybdenum oxide by Flow-rate variation in microplasma technique,	International	Any other	International conference on Nanosceinec and Nanotechnology	university Madras, Chennai,
January 24-27, 2006.	Reactive evaporation of metal wire and high rate of micro-deposition using an atmospheric-pressure reactive microplasma jet,	International	Any other	6th International conference on Reactive plamas and 23rd symposium on plasmaprocessing	Japan
, March 3-4, 2005	Wire spray processing of metal oxides on a specified position by an atmospheric-pressure UHF inductively coupled microplasma	International	Any other	Nano@Micro: Innovations for Nanoarchitectonics	AIST, Tsukuba, Japan.

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

Septemebr, 2005	Characterization of Nanocrystalline MoO ₃ by atmospheric pressure micro-plasma technique	National	Any other	JSAP meeting (National level-Oyobuturi	Japan
March 1-4, 2004	on Pattern formation induced by Ar ⁺ sputtering on Au (111),	International	Any other	9th international symposium on Advanced Physics Fields	NIMS, Tsukuba.
Dec'26 – 30, 2004.	Electrical conductivity studies on nanocrystalline SnO ₂ under high pressure,	National	Any other	47th DAE-Solid State Physics Symposium	Guru Nanak University, Amritsar, India
Dec'26 – 30, 2004	Dielectric relaxation studies in nanocrystalline La ₂ O ₃ doped ZrO ₂ using Modulus Formalism	National	Any other	47th DAE-Solid State Physics Symposium	Guru Nanak University, Amritsar, India
2004	Electrical conductivity studies on nanocrystalline SnO ₂ under high pressure,	National	Any other	Solid State Physics	India
2004.	Dielectric relaxation studies in nanocrystalline La ₂ O ₃ doped ZrO ₂ using Modulus Formalism	National	Any other	Solid State Physics (India)	India
Dec. 25-30, 2003,	Cubic phase stabilization of Nanocrystalline ZrO ₂ doped with La ₂ O ₃ and its electrical conductivity studies,	National	Any other	46th DAE Solid State Physics	Jiwaji University, Gwalior
2003	Cubic phase stabilization of Nanocrystalline ZrO ₂ doped with La ₂ O ₃ and its electrical conductivity studies,	National	Any other	46th DAE Solid State Physics	India

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

2002	Electrical Properties Studies of Nanostructured Alpha-Al ₂ O ₃	National	Any other	46th DAE Solid State Physics	India
Dec. 25-30, 2002,	“Electrical Properties Studies of Nanostructured Alpha-Al ₂ O ₃	National	Any other	45th DAE Solid State Physics	Punjab University, Chandigarh,
Feb.27-Mar.1, 2001	Synthesis and electrical studies of nanoscale SnO ₂ sensor materials	National	Any other	The 8th National seminar on physics and technology of sensor,	IGCAR, Kalpa
Dec. 26-30, 2001,	AC Conductivity Studies on Nanocrystalline Tin Oxide	National	Any other	The 44th DAE Solid State Physics,	BARC, Mumba
2001	AC Conductivity Studies on Nanocrystalline Tin Oxide	National	Any other	The 44th DAE Solid State Physics,	BARC, Mumba
1999.	Indigenously developed UHV-Chamber - Preparation and Characterization of Nanostructured MnF ₂ ”.	National	Any other	DAE Solid State Physics,	India
Dec. 20-24, 1999	Indigenously Developed UHV Chamber - Preparation and Characterization of Nanostructured MnF ₂ ”.	National	Any other	42nd DAE Solid State Physics,	IGCAR, Kalpa
Feb. 11-13, 1998.	"High Temperature Impedance Spectroscopy studies on TiO ₂ - SiO ₂ Nanocomposites”.	National	Any other	Ninth Annual General Meeting of Materials Research Society of India,	Madras
Mar. 16-17, 1998	Phase Characterization of Nanocrystalline Nickel Oxide doped Zirconia	National	Participant	National Seminar on Nanostructured Materials	Department Nuclear Ph University Madras.
1997	Structural and Dielectric studies of Silica Zirconia Nanocomposites	International	Participant	The International Conference on Physics of	University Rajasthan.

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

				Disordered Materials	
Aug. 19-22	Synthesis and Characterization of Nanocrystalline RuO ₂ -ZrO ₂	International	Participant	The 5th International Conference on Nanostructured Materials	Sendai, Japan

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
INPHYNIT-T'16.	National	23/02/2016	coordinator	NIT, Trichy
workshop on "Advanced NDT techniques"	National	October 4-5, 2013	Organizer	NIT, Trichy
Short term course on Materials Characterization	National	03-07 December 2012	Organizer	NIT Trichy
Training program on "Demonstration on Physics experiments for school teachers"	National	December 2006	Organizer	NIT, Trichy
workshop on "Non-Destructive Evaluation"	National	October, 2007	Organizer	NIT, Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Delivered Invited lecture at National conference on Nanomaterials,	2-3, December-2006	National Institute of Technology, Trichy
Delivered Invited Lecture at Department of Physics, Manonmanian Sudaranar University, Tirunelveli	January 25, 2007	Manonmanian Sudaranar University, Tirunelveli
Delivered Invited Lecture at Department of Physics,	February 14, 2007	Government college of Engineering, Salem
Delivered Invited Lecture at Department of Physics,	September 29, 2007	Karunya University, Coimbatore

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

Karunya University, Coimbatore		
Delivered Invited Lecture at Department of Physics, St. Joseph College, Trichy	October 8, 2007	St. Joseph College, Trichy
Delivered Invited Lecture at Department of Physics NIT, Trichy,-	October 13, 2007.	NIT, Trichy
Delivered Lecture at INT, Karlsruhe, Germany during a month visit	December 4, 2007.	INT, Karlsruhe, Germany
Delivered Invited Lecture at JNCSR, Bangalore in Indo-Japan workshop	December 18, 2007	JNCSR, Bangalore
Delivered Invited Lecture at Department of Physics, SRNM College, Satur -.	January 25, 2008	SRNM College, Satur
Resource person for UGC-refresher course, UGC-Academic Staff college, Bharathiar University, Coimbatore	February 4, 2008	Bharathiar University, Coimbatore
Delivered Invited Lecture at Department of Physics, Velammal college of Engineering, Madurai -	February 15, 2008	Velammal college of Engineering, Madurai
Delivered Invited Lecture at Department of Physics, NIT, Trichy	February 23, 2008	NIT, Trichy
Delivered Invited Lecture at Department of Metallurgy and Materials Engineering, NIT, Trichy	February 23, 2008	NIT, Trichy
Delivered Invited Lecture at Department of Metallurgy and Materials Engineering, NIT, Trichy	February 24, 2008	NIT, Trichy
Delivered Invited Lecture at Department of Production Engineering, NIT, Trichy	March 6, 2008	NIT, Trichy
Delivered Invited Lecture at Department of Polymer Technology	March 21, 2008	Kamaraj College of Engineering and Technology, Virudhunagar
Delivered Invited Lecture at Department of Nuclear Physics, University of Madras, Chennai “Workshop on Nanostructured Materials”	July 04, 2008	University of Madras, Chennai

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

Delivered Invited Lecture at Department of Physics, Erode Arts College, Erode “National Level Seminar on Nanotechnology”	August 30, 2008	Erode Arts College, Erode
Delivered Invited Lecture at Department of Physics, Ayya Nadar Janaki Ammal College, Sivakasi	September 27, 2008.	Ayya Nadar Janaki Ammal College, Sivakasi
Delivered Invited Lecture at Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar	January 9, 2009	Kamaraj College of Engineering and Technology, Virudhunagar
Delivered Invited Lecture at Department of Physics, Fatima National College, Kollam	March 23, 2009	Fatima National College, Kollam
Delivered Invited Lecture at Department of Metallurgy and Materials Engineering, NIT, Trichy	June 9, 2009.	NIT, Trichy
Delivered Invited Lecture for Short term course on Nanoscience and Nanotechnology, at Department of Chemical Engineering, Govt. College of Engineering, Trissur	January 20, 2010	Govt. College of Engineering, Trissur
Delivered key note address at Department of Polymer Technology, Kamaraj College of Engineering and Technology, Virudhunagar	March 30, 2010	Kamaraj College of Engineering and Technology, Virudhunaga
Delivered Invited Lecture at Department of Physics, Jamal Mohamed College, Trichy,	October, 2010.	Jamal Mohamed College, Trichy
Delivered Young Achiever Award Presentation, 55 th DAE symposium, Manipal University,	December 26-30, 2010.	DAE
Delivered Invited Lecture for seminar at Department of Physics, Scott Christian College, Nagercoil	–March 4, 2011	Scott Christian College, Nagercoil
Delivered Invited Lecture for seminar at Department of Physics, Velammal	March 18, 2011.	Velammal Engineering College, Madurai

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

Engineering College, Madurai		
Delivered Invited Lecture in the workshop on Nanomeasure	, 15-16, September, 2011.	NGM College, Pollachi
Delivered Invited Lecture and valedictory address in the workshop on Multifunctional Nanomaterials and their engineering applications	27-28, April, 2012	KPR Institute of Engineering and Technology,
Delivered Invited Lecture in Short Term Course on "Engineering Materials and Manufacturing Methods (EM3-2012)	28 June, 2012.	NIT, Trichy
Delivered lecture on Nanomaterials, UGC – Refreshser Course,	November- 23, 2012.	Bhaathidasan University, Trichy.
Delivered lecture on Synthesis, characterization of oxide nanomaterials for engineering applications, Advanced Materials Processing, Characterization and Applications,	January 23-25, 2013.	PSN college of Engineering and Technology,
Delivered lecture on Nanomaterials for engineering applications, INSPIRE school Programme,	11 th October, 2013	DST sponsored, PSR Engineering college,
Delivered lecture on Synthesis and characterization of Nanomaterials, UGC – Refreshser Course,	November- 15, 2013.	Madurai Kamaraj University, Madurai,
Delivered Invited Lecture in Short Term Course on " Applications of Nano Technology in Mechanical Engineering”	19 December, 2013	NIT, Trichy,
Delivered lecture on Synthesis, characterization and applications of nanomaterials, UGC Sponsored National Conference on "Physics for Interdisciplinary Advancements	February 7, 2014	J.A College for Women, Periyakulam

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

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Delivered Invited Lecture in characterization of materials in chemical sciences,	June 11, 2014	NIT, Trichy
Delivered Invited Lecture in workshop on “Elemental, compound and phase analysis by powder X-ray diffraction”	19-20th Sept. 2014,	NIT, Trichy
Delivered lecture on Synthesis, characterization and applications – photocatalysis for waste water treatment, AICTE Sponsored FDP programme on "Modern technology for sustainable development from waste,	February 28, 2015.	Mohamed Sathak Polytechnic College, Kilakarai, ,
Delivered lecture on Nanomaterials: Synthesis, characterization and applications, organized TEQIP-II sponsored Faculty Development Programme on Advanced Research in Materials for Engineering and Technological Applications (ARMETA-2015)	July 27, 2015	Anna University, Trichy,
Delivered lecture on Nanomaterials: Synthesis, characterization and applications, organized UGC Sponsored National Conference on "Thinfilms and Nanotechnology	February 26, 2016.	ANJA College Sivakasi,

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	MRSI (Materials	LM B951

**National Institute of Technology, Tiruchirappalli:
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	Research Society of India)	
Life member	Physics Association	
Life member	ISNT (Indian Society for Non Destructive Testing)	LM8445

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Institute of Nanotechnology, Karlsruhe, Germany	November-December, 2007	TEQIP
Nanoarchitectonics centre, NIMS, Japan	June-July, 2008	Collaborative Research
Singapore	Feb 26-28, 2012	International Conference on Key Engineering materials ICKEM 2012, Singapore
Brisbane, Australia	22-25, October 2012	International Conference on Emerging Advanced Nano-materials ICEAN2012, Australia

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Rengasamy Dhanabal, Sivan Velmathi, Arumugam Chandra Bose	High Efficiency new Visible Light Driven Ag_2MoO_4 - Ag_3PO_4 Composite Photocatalyst towards Degradation of Industrial Dyes	<i>Catal. Sci. Technol.</i>			2016	5.2
T Selvalakshmi, S Sellaiyan, Akira Uedono, Takaaki	Investigation on photoluminescence properties and defect	<i>Opt Mater</i>	58	524-530	2016	1.8

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

Semba and A Chandra Bose	chemistry of GdAlO ₃ :Dy ³⁺ Ba ²⁺ phosphors					
V Senthil, T Badpanda, A Chandra Bose	Enhancement of dielectric and ferroelectric properties of dysprosium substituted SrBi ₂ Ta ₂ O ₉ ceramics	<i>J Mater Sci: Mater Electron</i>	27	1602-1608	2016	1.4
V Senthil, T Badpanda, A Chandra Bose	Relaxation and conduction mechanism of Dy ³⁺ substituted SrBi ₂ Ta ₂ O ₉ ceramics	<i>J Mater Sci: Mater Electron</i>	27	4760-4770	2016	1.4
K. Gnanaprakasam Dhinakar T. Selvalakshmi, S. Meenakshi Sundar1 A. Chandra Bose,	Structural, optical and impedance properties of SnO ₂ nanoparticles	<i>J Mater Sci: Mater Electron</i>	27	5818-5824.	2016	1.4
K. Venkatesh, G. Arthanatheeswaran, A. Chandra Bose,	PVDF Mixed Matrix Nano-filtration Membrane which integrated with 1D-PANI/TiO ₂ NFs for Oil-water Emulsion Separation	<i>RSC Advances</i>	6	18899-18908.	2016	3.3
A. Chithambararaj, N. Rajeswari Yogamalar, A. Chandra Bose,	Hydrothermally Synthesized h-MoO ₃ and α-MoO ₃ Nanocrystals: New Findings on Crystal Structure Dependent Charge Transport	<i>Crystal Growth & Design</i>	16	1984-1995	2016	4.4
R. Dhanabal, Dushmanta Kumar Meher, S. Velmathi, and A. Chandra Bose	Synthesis, characterization and photocatalytic activity of Ruthenium doped h-MoO ₃ .	<i>Advanced Porous Materials</i>			2016	
K. P Abhilash, P. C. Selvin, B. Nalini, K. Somasundaram, P. Sivaraj, A.	Study of the temperature dependent transport properties in nanocrystalline	<i>J. Phys. Chem. Solids</i>	91	114-121	2016	2

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

Chandra Bose,	lithium lanthanum titanate for lithium ion batteries					
P. Muhammed Shafi and A. Chandra Bose	Effect of Reaction Medium on Porosity and Electrochemical Properties of MnO ₂ Nanoparticle	<i>Advanced Porous Materials</i>	3	57-62	2015	
Saravanamurthy, S. Velmathi and A. Chandra Bose	Facile fabrication of polycaprolactone/h-MoO ₃ nanocomposites and their structural, optical and electrical properties,	<i>RSC Advances</i>	5 (120)	99074-99083	2015	3.3
T. Selvalakshmi, P.Venkatesan, Shu-Pao Wu, S. Velmathi and A. Chandra Bose	Gd ₂ O ₃ :RE ₃₊ and GdAlO ₃ :RE ₃₊ (RE=Eu, Dy) phosphor: Synthesis, characterization and bioimaging application	<i>Journal of Nanoscience and Nanotechnology</i>			2015	1.5
T. Selvalakshmi, S. Selvakumar; A Uedono, A. Chandra Bose	Investigation on photoluminescence, electrical and positron lifetime of Eu ³⁺ ; activated Gd ₂ O ₃ phosphors	<i>Mater. Chem. Phys</i>	166	73-81	2015	2
R. Dhanabal, A. Chithambararaj, S. Velmathi, A. Chandra Bose	Visible light driven degradation of methylene blue dye using Ag ₃ PO ₄	<i>Journal of Environmental Chemical Engineering</i>	3 (3)	1872-1881	2015	1.4
P. Muhammed Shafi and A. Chandra Bose	Impact of crystalline defects and size on X-ray line broadening: A phenomenological approach for tetragonal SnO ₂ nanocrystals	<i>AIP Advances</i>	5	057137	2015	1.44
A. Chithambararaj, D, Bhagya Mathi, N, Rajeswari Yogamalar, A. Chandra Bose	Structural evolution and phase transition of [NH ₄] ₆ Mo ₇ O ₂₄ .4H ₂ O to 2D layered MoO ₃ x	<i>Mater. Res. Express</i>	2	055004	2015	0.9
T. Selvalakshmi, A. Chandra Bose , S. Velmathi	Influence of Al ³⁺ on the cross relaxation process and electrical properties of Dy ³⁺	<i>Ceramics International</i>	41 (7)	8801-8808	2015	2.75

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

	activated Gd ₂ O ₃ phosphor for white LED application					
N. Rajeswai Yogamalar, R. Jayavel, A. Chandra Bose	Quantum confined CdS inclusion in graphene oxide for improved electrical conductivity and facile charge transfer in hetero-junction solar cell	<i>RSC Advances</i>	5	16856	2015	3.3
T. Selvalakshmi, A. Chandra Bose , and S.Velmathi,	Effect of Eu ³⁺ and Al ³⁺ concentrations on photoluminescence of Gd ₂ O ₃ :Eu ³⁺ ,	<i>Journal of Nanoscience and Nanotechnology</i>	15	5760	2015	1.55
A. Chithambararaj, B. Winston, N. S. Sanjini, S. Velmathi and A. Chandra Bose	Band gap tuning of h-MoO ₃ nanocrystals for efficient visible light photocatalytic activity against MB dye	<i>Journal of Nanoscience and Nanotechnology</i>	15(7)	4913	2015	1.55
Selvalakshmi, Thangaraj; Sellaian, Selvakumar; Uedono, Akira; Mori, Akihiro; A. Chandra Bose	Investigation on defect related photoluminescence property of multicolour emitting Gd ₂ O ₃ :Dy ³⁺ phosphor	<i>RSC Advances</i>	4	34257	2015	3.3
, R Mariappan, V Ponnuswamy, A Chandra Bose , R Suresh, M Ragavendar,	Influence of Y doping concentration on the properties of nanostructures M _x Zn _{1-x} O (M=Y) thin film deposited by nebulizer spray pyrolysis technique	<i>Journal of Physics and Chemistry of Solids</i>	75	1033	2014	2
R. Mariappan, V. Ponnuswamy, P. Suresh, N. Ashok, P. Jayamurugan, A. Chandra Bose	Influence of film thickness on the properties of sprayed ZnO thin films for gas sensor applications	<i>Superlattices and Microstructures</i>	71	238	2014	2.1
A. Chithambararaj and A. Chandra Bose	Role of synthesis variables on controlled nucleation and growth of hexagonal molybdenum oxide	<i>Crystal Engineering Communications</i>	16	6175	2014	3.8

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

	nanocrystals: Investigation on thermal and optical properties					
B. Renganathan, D. Sastikumar, A. Chandra Bose , R. Srinivasan and A. R. Ganesan ,	Nanocrystalline Cerium Oxide coated fiber optic gas sensor	<i>Current Applied Physics</i>	14	467	2014	2.1
T. Selvalakshmi and A Chandra Bose	Strain induced X-ray line broadening and morphological investigation on silver nanoparticles	<i>Nanoscience and Nanotechnology Letters</i>	6	261	2014	1.55
R Mariappan, V Ponnuswamy, P Suresh, R Suresh, M Ragavendar, A Chandra Bose	Nanostructured Ce _x Zn _{1-x} O thin films: Influence of Ce doping on the structural, optical and electrical properties	<i>Journal of Alloys Compounds</i>	588	170	2014	3
R Mariappan, V Ponnuswamy, A Chandra Bose , A Chithambararaj, R Suresh, M. Ragavendar	Structural, optical and electrical characterization of nebulizer-sprayed ZnO nano-rods	<i>Superlattices and Microstructures</i>	65	184	2014	2
R. Srinivasan and A. Chandra Bose ,	Effect of hydrolysis time on grain size and properties of cerium oxide nanoparticle synthesized by hydrolysis assisted co-precipitation method	<i>Nanosciece and Nano Letter</i>		94	2014	1
R. Mariappan, V. Ponnuswamy, R. Suresh, P. Suresh, A. Chandra Bose , M. Ragavendar	Role of substrate temperature on the properties of Na-doped ZnO thin film nanorods and performance of ammonia gas sensors using nebulizer spray pyrolysis technique,	<i>Journal of Alloys and Compounds</i>	582	387	2014	3
A. Chithambararaj, N. Rameshbabu, A. Chandra Bose	Study of microwave assisted growth of meta-stable 1-D h-MoO ₃	<i>Science of Advanced Materials</i>	6	1302	2014	1.82

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

, M. Prabhu and A Chandra Bose	Complex impedance spectroscopy studies of PLZT(5/52/48) ceramics synthesized by sol-gel route	<i>Journal of Material Science: Materials in Electronics</i>	24	4560	2013	
K. Venkateswarlu, N. Rameshbabu, D. Sreekanth, M. Sandhyarani, A.Chandra Bose , V. Muthupandi , S. Subramanian	Role of electrolyte chemistry on electronic and in vitro electrochemical properties of micro-arc oxidized titania films on Cp Ti	<i>Electrochimica Acta</i>	105	468	2013	4.8
A. Chithambararaj, N. S. Sanjini, S. Velmathi and A. Chandra Bose	Preparation of h-MoO ₃ and a-MoO ₃ nanocrystals: comparative study on photocatalytic degradation of methylene blue under visible light irradiation	<i>Physical Chemistry Chemical Physics</i>	15	14761	2013	4.4
A. Chithambararaj, N. S. Sanjini, A. Chandra Bose and S. Velmathi,	Flower-like hierarchical h-MoO ₃ : A new findings of efficient visible light driven nano photocatalyst for methylene blue degradation,	<i>Catalysis Science Technology</i>	3	1405	2013	5.2
K. Venkateswarlu, N. Rameshbabu, D. Sreekanth, A.Chandra Bose , V. Muthupandi, S. Subramanian,	Fabrication and characterization of micro arc oxidized fluoride containing titania films on Cp Ti,	<i>Ceramics International</i>	39	801	2013	2.3
N. Rajeswari Yogamalar, and A. Chandra Bose	Synthesis, Dopant Study and Device Fabrication of Zinc Oxide Nanostructures: Mini Review	<i>Progresses in Nanotechnology and Nanomaterials</i>	2	1	2013	
A. Chithambararaj and A. Chandra Bose	Microwave assisted ultra fast synthesis of 1-D molybdenum oxide nanocrystals: structural and electrical studies	<i>Advanced Materials Research</i>	488-489	940-944.	2012	
K. Venkateswarlu, D. Sreekanth, M.	X-Ray Peak Profile Analysis of	<i>Journal of Bioscience,</i>	2	417	2012	

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

Sandhyarani, V. Muthupandi, A. Chadra Bose , and N. Rameshbabu	Nanostructured Hydroxyapatite and Fluorapatite	<i>Biochemistry and Bioinformatics</i>				
V. Senthil, T. Badapanda, A. Chithambararaj, A. Chandra Bose , A. K. Mohapatra, S. Panigrahi	Dielectric relaxation behavior and electrical conduction mechanism in polymer-ceramic composites based on Sr modified barium zirconium titanate ceramic,	<i>Journal of Polymer Research</i>	19	9898	2012	1.9
A. Chithambararaj and A. Chandra Bose	Effect of mineralizer (KNO ₃) on the structural and optical properties of h-MoO ₃ nanocrystals	<i>Advanced Materials Research</i>	585	110	2012	
M. Suganthi and A Chandra Bose	Morphological and luminescence study on Eu ³⁺ doped ZnO nanoparticles prepared by hydrothermal method	<i>Advanced Materials Research</i>	585	129	2012	
K. Venkateswarlu, J. Hari, D. Sreekanth, M. Sandhyarani, A. Chandra Bose and N. Rameshbabu,	Effect of Micro Arc Oxidation Treatment Time on In-Vitro Corrosion Characteristics of Titania Films on Cp Ti	<i>Journal of Bioscience, Biochemistry and Bioinformatics</i>	2	422	2012	
T. Selvalakshmi and A. Chandra Bose ,	Optical study on gadolinium oxide nanoparticles synthesized by hydrothermal method	<i>Advanced Materials Research</i>	585	105	2012	
K. Venkateswarlu N. Rameshbabu; D. Sreekanth, A. Chandra Bose , V. Muthupandi, N. Kumareash Babu and S. Subramanian,	Role of Electrolyte additives on in-vitro Electrochemical Behavior of Micro Arc Oxidized Titania Films on Cp Ti	<i>Applied Surface Science</i>	258	6853	2012	3.1
T.Selvalakshmi, S. Philomina, R. Srinivasan and A. Chandra Bose ,	Synthesis and characterization of Er ³⁺ doped Y ₂ O ₃ nanoparticles	<i>Journal of Luminescence and its application</i>	12	82	2012	
N. Rajeswari	ZnO-based <i>pn</i> homo-	<i>Science of</i>	4	1	2012	1.8

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

Yogamalar, and A. Chandra Bose	junction fabricated by spin coating method	<i>Advanced Materials</i>				
Senthil Venkatesan, Tanmaya Badapanda, A. Chandra Bose and Simanchalo Panigrahi	Impedance and electrical modulus study of microwave sintered SrBi ₂ Ta ₂ O ₉ Ceramic	<i>ISRN Ceramics</i>	2012	1	2012	
Rajeswari Yogamalar, Pedinti S. Venkateshwaran, Mercy R. Benziger, Katsuhiko Ariga, Ajayan Vinu, and A. Chandra Bose,	Dopant Induced Bandgap Narrowing in Y-Doped Zinc Oxide Nanostructures	<i>Journal of Nanoscience and Nanotechnology</i>	12 1	75	2012	1.55
K. Venkateswarlu, N. Rameshbabu, A.Chandra Bose, V. Muthupandi, S. Subramanian, D. MubarakAli, N. Thajuddin	Fabrication of corrosion resistant, bioactive and antibacterial silver substituted hydroxyapatite/titania composite coating on Cp Ti	<i>Ceramics International</i>	38	731	2012	2.3
K. Venkateswarlu, S. Suresh, N. Rameshbabu, A. Chandra Bose, S. Subramanian	Effect of electrolyte chemistry on the structural, morphological and corrosion characteristics of titania films developed on Ti-6Al-4V implant material by plasma electrolytic oxidation	<i>Key Engineering Materials,</i>	493-494	436	2012	
K. Venkateswarlu. N Rameshbabu, A. Chandra Bose, V. Muthupandi, S. Subramanian, D. MubarakAli, N. Thajuddin,	Antibacterial silver substituted hydroxyapatite/titania composite coating on Cp Ti	<i>Ceramics International,</i>			2011	2.3
A. Chithambararaj, and A. Chandra Bose	Investigation on structural, thermal, optical and sensing properties of meta-stable hexagonal MoO ₃ nanocrystals of one dimensional	<i>Beilstein Journal of Nanotechnology</i>	2	585	2011	2.77

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

	structure					
A. Chithambararaj, and A. Chandra Bose,	Investigation on structural, thermal, optical properties of meta-stable hexagonal MoO ₃ nanorod	<i>International Journal of Nanotechnology and Applications</i>	5	91	2011	
N. Rajeswari Yogamalar, M. Ashok and A. Chandra Bose,	Blue emission and Bandgap modification in N:ZnO Nanorods,	<i>Fuctional Materials Letter</i>	4	1	2011	2.4
A. Chithambararaj, and A. Chandra Bose,	Hydrothermal synthesis of Hexagonal and Orthorhmbic MoO ₃ nanoparticles	<i>Journal of Alloys Compound</i>	509	8105	2011	3.2
N. Rajeswari Yogamalar, and A. Chandra Bose,	Absorption-Emission study of hydrothermally grown Al:ZnO nanostructure	<i>Journal of Alloys Compound</i>	509	8493	2011	3.2
B. Renganathan, D. Sastikumar, G. Gobi, N. Rajeswari Yogamalar and A. Chandra Bose	Nanocrystalline ZnO coated fiber optic sensor for ammonia gas detection	<i>Optics and laser technology</i>	43	1398	2011	1.8
B. Renganathan, D. Sastikumar, G. Gobi, N. Rajeswari Yogamalar, and A. Chandra Bose	Gas sensing properties of a clad modified fiber optic sensor with Ce, Li and Al doped nanocrystalline zinc oxides	<i>Sensors and actuators B</i>	156	263	2011	4.7
K. Venkateswarlu, N. Rameshbabu, A. Chandra Bose, V. Muthupandi, S. Subramania,, ()	Studies on development, bioactivity and corrosion behavior of nanostructured titania/hydroxyapatite composite layer on Cp Ti	<i>Key Engineering Materials Vols</i>	471-472	325-330	2011	
N. Rajeswari Yogamalar, and A. Chandra Bose,	Burstein–Moss shift and room temperature near-band-edge luminescence in lithium-doped zinc Oxide,	<i>Applied Physics A</i>	103	33	2011	1.69

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

R. Srinivasan and A. Chandra Bose,	Structural and optical properties of Eu ³⁺ doped Cerium Oxide Nanophosphors		4	13	2011	
N. Rajeswari Yogamalar, and A. Chandra Bose,	Tuning the aspect ratio of hydrothermally grown ZnO by choice of precursor,	<i>Journal of Solid State Chemistry</i>	184	12	2011	2.2
M. Chandrasekar, S. Suresh, A. Chandra Bose,	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ /water nanofluid in a circular pipe under transition flow with wire coil inserts.	<i>Heat Transfer Engineering</i>	32	485	2011	
M. Chandrasekar, S. Suresh, A. Chandra Bose,	Experimental studies on heat transfer and friction factor characteristics of Al ₂ O ₃ /water nanofluid in a circular pipe under transition flow with wire coil inserts.	<i>Experimental Thermal and Fluid Science</i>	34	122	2010	2.2
B. Ranganathan, G. Gobi, D. Sastikumar, R. Srinivasan and A. Chandra Bose,	Optical fiber coated with nanocrystalline tin oxide for ammonia vapour sensing	<i>Sensors Letters</i>	8	292	2010	
M. Chandrasekar, S. Suresh, A. Chandra Bose	Experimental investigations and theoretical determination of thermal conductivity and viscosity of Al ₂ O ₃ /water nanofluid	<i>Experimental Thermal and Fluid Science</i>	34	210	2010	2.2
R. Srinivasan, N. Rajeswari Yogamalar, and A. Chandra Bose	Structural and Optical Studies of Yttrium oxide Nanoparticles Synthesized by Co-precipitation method	<i>Materials Research Bulletin</i>	45	1165	2010	2.4
R. Srinivasan, N. Rajeswari Yogamalar, J.	Structural and optical properties of europium doped	<i>Journal Alloys and Compounds</i>	496	472	2010	3.2

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

Elanchezhian, R. Justin Joseyphus and A. Chandra Bose	yttrium oxide nanoparticles for phosphor applications					
T. Dhannia, S. Jayalekshmi, M.C. Santhosh Kumar, T. Prasada Rao, A. Chandra Bose,	Effect of iron doping and annealing on structural and optical properties of cerium oxide nanocrystals	<i>Journal of Physics and Chemistry of Solids</i>	70	1443	2010	2
R. Srinivasan and A. Chandra Bose,	Structural properties of Sm ³⁺ doped cerium oxide nanorods synthesized by hydrolysis assisted co-precipitation method,	<i>Materials Letter</i>	64	1954	2010	2.2
K. Venkateswarlu, A. Chandra Bose, N. Rameshbabu,	X-ray peak broadening studies of nanocrystalline hydroxyapatite by Williamson-Hall analysis	<i>Physica B</i>	405	4256	2010	1.3
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A. Chandra Bose , R. Ramamoorthy and S. Ramasamy	Synthesis and characterization of nanocrystalline RuO ₂ -ZrO ₂	<i>Materials Transaction</i>	42	1667	2001	
A. Chandra Bose , R. Ramamoorthy	Formability of metastable tetragonal	<i>Materials Letter</i>	44	203	2000	2.3

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P Muhammed Shafi, A Chandra Bose	Structural evolution of tetragonal MnO ₂ and its electrochemical behaviour	AIP Conference Proceedings	050038		Amity university Noida	2015
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NR Yogamalar, A Chandra Bose	Rectifying behaviour of spin coated pn hetero-junction	AIP Conference Proceedings	120029		Amity university Noida	2015
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National Institute of Technology, Tiruchirappalli:
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A. Chithambararaj and A. Chandra Bose	Hydrothermal synthesis of molybdenum oxide microbelts	AIP Conference Proceedings	311-312		IIT Mumbai	2012
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V. Sabarinathan, A. Chandra Bose , P. Thangadurai and S. Ramasamy,	Electrical Properties Studies of Nanostructured Alpha-Al ₂ O ₃	AIP Conference Proceedings				2002
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(C) Books & Monographs

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