

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

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. M C Santhosh Kumar received his Ph.D from Cochin University of Science and Technology, Cochin, India in 2003 in the field of semiconductor thin films. He has 14 years of teaching experience in UG and PG level. He was a visiting researcher at Korea Advanced Institute of Science and Technology (KAIST), South Korea. He has visited USA, Australia and Singapore for International Conference presentations. His current research interests are in Optoelectronic materials, thin film solar cells and nanomaterials. He has guided three Ph.Ds and Seven Ph.D students working under his guidance. He has two major DST sponsored research projects and several minor projects from INUP, TEQIP and MHRD. He has published 50 International papers in reputed journals.

1. Name: Dr.M.C.Santhosh Kumar
2. Designation: Assistant Professor
3. Office Address: Department of Physics,
National Institute of Technology,Tiruchirappalli
4. Telephone (Direct) (Optional):
Telephone : 04312503611 Extn
(Optional):
Mobile (Optional):
5. Email (Primary): santhoshmc@nitt.edu Email (Secondary) :mcsanth@gmail.com
6. Field(s) of Specialization: Optoelectronic
materials, Thin film solar cells, Nanomaterials
7. Employment Profile

Job Title	Employer	From	To
Lecturer	Rajagiri School of Engineering and Technology, Kochi, Kerala	September 2002	April 2006
Assistant Professor	National Institute of Technology, Tiruchirappalli,	May 2006	Till date

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	Tamil nadu, India		
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8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Cochin University of Science and Technology, Kochi, Kerala	2003		Thin Films
M.Sc.	Pondicherry University, Pondicherry	1997	77.1%	Physics
B.Sc.	Calicut University	1995	71.9%	Physics (main)
SSLC	Kerala State Board	1990	79.6%	General

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
M.Tech. NDT Subject co-ordinator	Department of Physics	June 2006	May 2008
B.Tech. Subject co-ordinator	Department of Physics	June 2011	May 2013
M.Tech. NDT Subject co-ordinator	Department of Physics	January 2015	December 2016

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Board of Studies member	Department of Physics, Cochin University, Kerala	2015	2018
Board of Studies member	KL University, Andra Pradesh	2014	

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

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

13. Details of Academic Work

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

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Fabrication of ZnO nanoparticle based light emitting devices by screen printing technique	TEQIP	2007		Completed
Preparation of p-ZnO films by dual acceptor doping and fabrication of homo-junction devices	DST Fasttrack Scheme	2010	2013	Completed
Fabrication and characterization of homojunction and hybrid light emitting diodes (LEDs) using vertically aligned	INUP, IIT Bombay	Jan 2015	May 2015	Completed

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conducting ZnO nanowires				
Fabrication and characterization of ZnO nanowires based p-i-n photodiodes for ultra-violet (UV) light detection	INUP, IIT Bombay	Nov 2015	June 2016	Completed
Deposition of earth abundant ternary CuZnS thin films and Fabrication of Cadmium free solar cells.	DST-CERI 2015	2016	2019	ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr.T. Prasada Rao	Preparation and characterization of n-type and p - type ZnO thin films for optoelectronic applications	Supervisor	2011
Dr. R. Swapna	Investigations on preparation and properties of various n-type and p-type ZnO thin films and fabrication of p-n homojunctions	Supervisor	2014
R. Amiruddin	Aqueous Chemical Growth of ZnO Nanowires and Fabrication of High speed Ultraviolet Photodiodes	Supervisor	Thesis submitted

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

Date	Title of	Level	of	Role	(Participant/	Event Organized by	Venue
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(s)	Activity	Event (International/ National/ Local)	Speaker/ Chairperson, Paper presenter, Any other)		

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/
Organizing Secretary/ Convener / Co-Convener)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Workshop on Characterization of materials for advanced applications (TEQIP-II sponsored)	National level	4 -6 August 2016	Convener	NITT
Short term programme on Nano structured materials: Processing and characterization	National level	7-8 October 2014	Convener	NITT
Golden Jubilee Lecture by Prof. G.K.Sivakumar, NIT Surathkal	Local level	04.04.2014	Convener	NITT
Faculty Development Programme on Physics for Emerging Technologies (Self Financing)	National level	15-19 July, 2013	Convener	NITT
Invited Talk by Prof. Paulraj Manidurai from University of Concepcion, Chile	Local level	13.02.2013	Convener	NITT
TEQIP sponsored one day workshop on Nanostructures and Device	National level	23.02.2008	Convener	NITT
TEQIP sponsored two day national workshop on Non-Destructive Testing-Quality 2007	National level	12-13 October, 2007	Convener	NITT
TEQIP sponsored one day workshop on	National level	10.03.2007	Convener	NITT

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Gateway to GATE 2008- Workshop for aspirants				
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18. Invited Talks delivered

Topic	Date	Inviting Organization
Thin Films for Optoelectronics and Photovoltaic Applications	7 th October 2016	National Conference on Advanced Materials (NCAM- 2016), St. Joseph's College, Trichy
Optical and Electrical characterization of thin films	4-6 August 2016,	Workshop on Characterization of Materials for advanced Applications, Department of Physics, NIT Trichy
Metal oxide nanostructures for optoelectronics and Mechanical applications	2 nd July 2016.	One day workshop on Nanotechnology and its Applications, Department of Mechanical Engg., Vimal Jyothi college, Chemperi, Kannur, Kerala
Advances in Thin Film Solar Cells	6-9 June 2016,	Workshop on utilization of Techniques of renewable energy sources, Department of Mechanical Engineering, NIT Trichy
Metal oxide nanostructures for optoelectronics and Mechanical applications.	23 rd January 2016	National level conference on Technologies Behind Nanoscience : Fabrication, diagnostics and applications, MA College, Kothamangalam,
Thin Film Technology and its applications	15 th January 2016	STTP on Recent Advances in Applied Physics, SOE, CUSAT, Kochi-22,
Evolution of Light Sources	11 th January 2016	STTP on Recent Advances in Applied Physics, SOE, CUSAT, Kochi-22,
Thin Film nanostructures and applications	19 th December 2015	FDP on Green nanotechnology in materials engineering and energy applications, College of Engineering, Adoor, Kerala
Metal oxide nanostructures for optoelectronic and mechanical applications		Invited talk in National Seminar at Devamatha college, Kuravilangad, Kerala

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Evolution of Light Sources	17 th November 2015	TEQIP-II sponsored expert talk in College of Engineering, Adoor, Kerala,
Metal oxide nanostructures for optoelectronics and Mechanical applications.	6 th November 2015	Modern trends in physics research (MTPR-2015) St. Stephen's College Pathanapuram, Kollam, Kerala,
Transparent oxide nanostructures and applications	17 th to 30 th July 2015	Anna University Bharathidasan Institute of Technology, Tiruchirappalli
Transparent oxide nanostructures	26 th to 28 th March 2014	International conference on Advanced materials and its applications, 26 th to 28 th March 2014, Alphonsa College, Pala, Kerala
Transparent oxide nanostructures and its applications	19 th February, 2014	KL University, Vaddeswaram, Andra Pradesh
Thin film deposition and applications	18 th -21 st December, 2013	Workshop on Application of Nanotechnology in Mechanical Engineering, NIT Trichy
Recent Trends in Transparent Conducting Oxide (TCO) Thin Films	11-12, December 2013	MSM college, Kyaamkulam, Alappuzha, Kerala
Transparent conducting oxide thin films (TCO): Technology and applications	25-25 July 2013,	Sree Sankara College, Kaladi, Ernakulam, Kerala
Recent Trends in Transparent Conducting Oxide (TCO) Thin Films	25-26 March 2013	Devamatha college, Kuravilangad, Kottayam, Kerala
Introduction to Micro-electromechanical Systems	25 th January 2013	Govt. Brennen College, Thalassery, Kerala
NMR spectroscopy in NDT	March 2008	Department of Chemistry, NITT
Thin films and applications	February 2008	Department of Metallurgy and Materials engineering, NITT
Nanostructures for MEMS applications	February 2008	Department of Physics, NITT
MEMS and Smart systems	February 2007	Govt. Engg College, Salem

19. Membership of Learned Societies

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

20. Academic Foreign Visits

Country	Duration of Visit	Programme
South Korea	25 th November- 24 th December 2007	TEQIP training at KAIST
USA	October 24-28, 2010	Frontiers in Optics 2010/ Laser science XXVI", Rochester, New York USA,
Australia	22 nd – 25 th October 2012	1 st International conference on Emerging Advanced nanomaterials, The University of Queensland, Brisbane, Australia,
Singapore	12 th -15 th July 2016	8 th International conference on Technological Advancement of Thin Films & Surface Coatings

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
R. Amiruddin, M.C. Santhosh Kumar	Role of oxygen interstitial defects in fabrication of UV photodiodes using vertically aligned (Al,Ga):ZnO nanowires	Nanoscience and Nanotechnology letters	In Press		2016	1.007
R. Reshmi Krishnan,	Effect of Nb doping on the structural,	Phys. Status Solidi C	In Press		2016	0.83

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Radhakrishna Prabhu, M. C. Santhosh Kumar, C. Sudarsanakumar and V. P.Mahadevan Pillai,	morphological, optical and electrical properties of RF magnetron sputtered In ₂ O ₃ nanostructured films,					
T. Srinivasa Reddy, M.C. Santhosh Kumar	Co-evaporated SnS thin films for visible light photodetector applications	RSC Adv	6	95680	2016	3.289
R. Amiruddin, M.C. Santhosh Kumar,	Role of p-NiO electron blocking layers in fabrication of (P-N):ZnO/Al:ZnO UV photodiodes	Current Applied Physics	16	1052-1061	2016	2.144
Sn ₂ S ₃ thin films, T. Srinivasa Reddy, M.C. Santhosh Kumar,	Effect of substrate temperature on the physical properties of co- evaporated	Ceramics International	42	12262–12269	2016	2.758
Saheer Cheemadan, R. Amiruddin, M.C. Santhosh Kumar	Highly transparent conducting CdO thin films by R.F. Magnetron sputtering for Optoelectronic applications	J. Nanophoton.	10(3)	033007	2016	1.686
C.S. Sujith Kumar, S. Suresh, A.S. Praveen, M.C. Santhosh Kumar, Vishakh Gopi,	Effect of surfactant addition on hydrophilicity of ZnO-Al ₂ O ₃ composite and enhancement of flow boiling heat transfer,	Experimental Thermal and Fluid Science	70	325-334	2016	1.990
Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan, ,	Welding Fume Reduction by Nano-Alumina Coating on Electrodes – Towards Green Welding Process	Journal of Cleaner Production	108	131-144	2015	3.844
R. Swapna, K. Venkateswaralau, M. C. Santhosh Kumar,	Heat Treatment Impact on the Properties of Na and N Dual Doped ZnO Thin Flms by Spray Pyrolysis,	Procedia Materials Science	10	714 – 722	2015	
R. Swapna, T. Srinivasa Reddy, K.	Effect of Post-Annealing on the Properties of Eu Doped ZnO Nano	Procedia Materials Science	10	723 – 729,	2015	

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Venkateswaralau, M. C. Santhosh Kumar,	Thin Films					
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar	Deposition and Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application	Solar Energy Materials and solar cells	143	128-134	2015	4.732
R. Amiruddin, M.C. Santhosh Kumar,	Growth and characterization of near white light emitting Al-Ga:ZnO nanowires	Mater. Res. Express	2	075004	2015	0.968
Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan	Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film	Journal of Materials: Design and Applications			2015	0.672
Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan,	Welding fumes reduction by coating of nano-TiO ₂ on electrodes,	Journal of Materials Processing Technology	219	237-247,	2015	2.236
R. Amiruddin, Sebin Devasia, K.Mohammedali, M. C. Santhosh Kumar	Investigation on PN dual acceptor doped ptype ZnO thin films and subsequent growth of pencillike nanowires	Semiconductor Science and Technology	30	035009- 035019	2015	
T. Prasada Rao, S.Gokul Raj, M. C. Santhosh Kumar	Optical Properties of Samarium Doped ZnO Thin Films	IEEE xplore, 2nd International Conference on Devices, Circuits and Systems			2014	

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		(ICDCS)				
T.Prasada Rao, S. Gokul Raj, M. C. Santhosh Kumar	Effect of Annealing Atmosphere on Structural and Optical Properties of Nd:ZnO Thin Films	Procedia Materials Science	6	1631 – 1638	2014	
C.S. Sujith Kumar, S. Suresh C.R, Aneesh, M.C. Santhosh Kumar, A.S. Praveen, K. Raji	Flow boiling heat transfer enhancement on copper surface using Fe doped Al ₂ O ₃ TiO ₂ composite coatings	Applied Surface Science	334	102–109	2015	3.150
R. Amiruddin, M. C. Santhosh Kumar,	Enhanced visible emission from vertically aligned ZnO nanostructures	Journal of Luminescence	155	149–155	2014	
Process R. Amiruddin, M. C. Santhosh Kumar	Epitaxial Growth of Vertically Aligned Highly Conducting ZnO Nanowires by Modified Aqueous Chemical Growth	Ceramics International	40	11283–11290	2014	
R. Amiruddin, Akshay Srinivas, C. S. Sujith Kumar, M. C. Santhosh Kumar	Fabrication of Hydrophobic ZnO Surfaces on SS304 Substrates	J. Environ Nanotechnol.	4	51-56	2014	
S. Cheemadan, K. Keerthana, M. C. Santhosh Kumar	Analysis of Structural and Electrical Properties of Aluminium Doped Lead Sulphide (PbS) Thin Films Prepared by CBD Method.	J. Environ Nanotechnol.	2	28-33	2014	
R. Swapna, R. Amiruddin, M. C. Santhosh Kumar	Dual Acceptor Doping and Aging Effect of pZnO:(Na, N) Nanorod Thin Films by Spray Pyrolysis,	AIP Conference Proceedings	1576	167-170	2014	
R. Swapna, M. C. Santhosh Kumar	Fabrication and Characterization of nZnO: Eu/pZnO:(Ag,N) homojunction by	Materials Research Bulletin	49	44–49	2014	

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	spray pyrolysis					
R. Swapna, M. C. Santhosh Kumar	Deposition of NaN dual acceptor doped ptype ZnO thin films and fabrication of pZnO:(Na,N)/nZnO:Eu homojunction	Materials Science and Engineering B,	178	1032–1039	2013	
R. Swapna, R. Amiruddin, and M. C. Santhosh Kumar	Aging and annealing effects on properties of AgN dualacceptor doped ZnO thin films	AIP Conf. Proc.	1512	682-683	2013	
R. Swapna, M. Ashok, G. Muralidharan, M. C. Santhosh Kumar	Microstructural, electrical and optical properties of ZnO:Mo thin films with various thickness by spray pyrolysis	Journal of Analytical and Applied Pyrolysis	102	68–75	2013	
R. Swapna, M.C. Santhosh Kumar	Growth and characterization of molybdenum doped ZnO thin films by spray pyrolysis	Journal of Physics and Chemistry of Solids	74	418–425	2013	
R. Swapna, M.C. Santhosh Kumar	Deposition of the low resistive AgN dual acceptor doped ptype ZnO thin films	Ceramics International	39	1799–1806	2013	
T Prasada Rao, M C Santhosh Kumar, N. Sooraj Hussain	Effects of thickness and atmospheric annealing on structural, electrical and optical properties of GZO thin films by spray pyrolysis	Journal of Alloys and Compounds	541	495–504	2012	3.014
T. Prasada Rao, M. C. Santhosh Kumar	Resistivity Stability of Ga Doped ZnO Thin Films with Heat Treatment in Air and Oxygen Atmospheres	Journal of Crystallization Process and Technology	2	72-79	2012	
R. Swapna, M.C. Santhosh Kumar	The role of substrate temperature on the properties of nanocrystalline Mo	Ceramics International	38	3875–3883	2012	

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	doped ZnO thin films by spray pyrolysis					
T. Prasada Rao and M. C. Santhosh Kumar	Effect of annealing on the structural, optical and electrical properties of ZnO thin films by spray pyrolysis	Indian J. Phys	85	1381-1391	2011	
T. Prasada Rao and M. C. Santhosh Kumar	Realization of stable ptype ZnO thin films using Li-N dual acceptors	Journal of Alloys and Compounds	509	8676-8682	2011	3.014
M.C. Santhosh Kumar, B. Pradeep	Band gap variation in coevaporated AgInSe ₂ thin films with 1.26 MeV He ⁺ ion irradiation	Indian Journal of Physics	85	401-409	2011	
M.C. Santhosh Kumar, B. Pradeep	Optical constants of coevaporated Ag ₂ Se thin films with proton irradiation	Journal of Ovonic Research	6	143-148	2010	
T. Prasada Rao and M. C. Santhosh Kumar	Physical properties of Ga doped ZnO thin films by spray pyrolysis	Journal of Alloys and Compounds	506	788-793	2010	3.014
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	Journal of Physics and Chemistry of Solids	71	1020-1025	2010	
M.C. Santhosh Kumar, B. Pradeep	Effect of He ⁺ ion irradiation on the structural and optical properties of vacuum evaporated AgInSe ₂ thin films	Journal of Alloys and Compounds	495	284-287	2010	3.014
T. Prasada Rao, M. C. Santhosh Kumar, V. Ganesan, S. R. Barman, C. Sanjeeviraja	Physical properties of ZnO thin films deposited at various substrate temperatures using spray pyrolysis	Physica B	405	2226-2231	2010	
S. Bagavathiappan, Y. Siva Sankar, M.C. S. Kumar, John Philip, T. Jayakumar	Active infrared thermal imaging for quantitative analysis of defects and delaminations in composite materials	Journal of Non Destructive Testing & Evaluation	8	28-36	2009	

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and Baldev Raj						
T. Dhannia, S. Jayalekshmi, M. C. Santhosh Kumar, T. Prasada Rao, A. Chandra Bose	Effect of aluminium doping and annealing on structural and optical properties of Cerium Oxide nanocrystals	Journal of Physics and Chemistry of Solids	70	1443–1447	2009	
T. Prasada Rao, M.C. Santhosh Kumar, S. Anbumozhi Angayarkanni, M. Ashok	Effect of stress on optical band gap of ZnO thin films with substrate temperature by spray pyrolysis	Journal of Alloys and Compounds	485	413–417	2009	3.014
M.C. Santhosh Kumar and B. Pradeep	Effect of H ⁺ irradiation on the optical properties of vacuum evaporated AgInSe ₂ thin films	Applied Surface Science	255	8324–8327	2009	3.150
T. Prasada Rao, M.C. Santhoshkumar	Highly Oriented (1 0 0) ZnO thin films by spray pyrolysis	Applied Surface Science	255	7212–7215	2009	3.150
T. Prasada Rao, M.C. Santhoshkumar	Thickness effect on structural, optical and electrical properties of ZnO thin films by Spray Pyrolysis	Applied Surface Science	255	4579–4584	2009	3.150
M.C. Santhosh Kumar and B. Pradeep	Formation and properties of silver indium selenide thin films by coevaporation	Vacuum	72	369 – 378	2004	1.858
M.C. Santhosh Kumar and B. Pradeep	Photoelectrical properties of Silver Indium Selenide Thin Films.	Journal of Materials Science Letters	22	287-291	2003	0.47
M.C. Santhosh Kumar and B. Pradeep	Preparation and electrical properties of silver selenide thin films by reactive evaporation	Bull. Mater. Sci.	25	407-411	2002	1.017
M.C. Santhosh Kumar and B. Pradeep	Transport properties of silver selenide thin films from 100 K to 300K	Mater. Lett.	56	491-495	2002	2.489
M.C. Santhosh Kumar and B.	Structural electrical and optical	Semicond. Sci. Technol.	17	261-265	2002	2.190

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Pradeep	properties of silver selenide thin films					
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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
T. Srinivasa Reddy, B. Hemanth Kumar, M. C. Santhosh kumar,	Effect of Annealing on the optical properties and photoconductivity of SnS thin film,			61 st DAE Solid State Physics Symposium	Bhubaneswar, Odisha	2016
Edwin Jose and M.C. Santhosh Kumar, ,	Room-temperature wide-range Luminescence and structural, optical and electrical properties of SILAR deposited Cu-Zn-S nano-structured thin films			SPIE Optics + Photonics	San Diego, USA	2016
R. Amiruddin and M.C. Santhosh Kumar	Performance investigation of ZnO based p-i-n UV Photodiode using vertically aligned (Al, Ga):ZnO nanowires			8 th International conference on Technological Advancement of Thin Films & Surface Coatings	Singapore	2016
R. Amiruddin and M.C. Santhosh Kumar,	Facile synthesis of free standing and conducting Al:ZnO Nanowires with visible luminescence characteristics			4 th International Conference on Frontiers in Nanoscience and Technology, nano-2016	Cochin	2016
Edwin Jose, T. Srinivasa Reddy and M.C. Santhosh Kumar,	Investigation on structural, morphological, optical and electrical properties of SILAR deposited CuZnS Nanostructured thin films			4 th International Conference on Frontiers in Nanoscience and Technology, nano-2016	Cochin	2016
Rupam Baruah, M.C Santhosh Kumar,	Automatic Detection And Characterization Of Defects In Radiographic Images Using Artificial Neural Network			National seminar and International exhibition on Non-Destructive Evaluation, NDE-2015	Hyderabad	2015
Sandeep Kumar, M.C Santhosh Kumar	Automatic Detection of Defects And Pattern Recognition In TOFD Signal/Image of A Thin Weldment,			National seminar and International exhibition on Non-Destructive Evaluation, NDE-2015	Hyderabad	2015
Saheer	Realization of highly			SPIE	Sandiago,	2015

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Chemadan, R. Amiruddin, , M.C. Santhosh Kumar,	transparent conducting CdO thin films by R.F. Magnetron sputtering for Optoelectronic applications			NanoScience + Engineering,	California, USA	
R. Amiruddin, Saheer Chemadan, M.C. Santhosh Kumar, ,	Fabrication and characterization of p-ZnO:(P,N)/n-ZnO:Al homojunction Ultra-Violet (UV) Light Emitting Diodes			SPIE NanoScience + Engineering,	Sandiago, California, USA	2015
Edwin Jose, T. Srinivasa Reddy and M.C. Santhosh Kumar,	Deposition of Cu-Zn-S thin films by SILAR technique for photovoltaic applications			10th Mid-Year CRSI Symposium in Chemistry,	NIT, Trichy	2015
Saheer Cheemadan, M.C. Santhosh Kumar,	The Effect Substrate Temperature on the properties of CdO Thin Film by RF Magnetron Sputtering,			10th Mid-Year CRSI Symposium in Chemistry,	NIT, Trichy	2015
T. Srinivasa Reddy and M.C. Santhosh Kumar,	Effect of Substrate temperature on the properties of co-evaporated Cu ₂ SnS ₃ thin film,			10th Mid-Year CRSI Symposium in Chemistry	NIT, Trichy	2015
T. Srinivasa Reddy and M.C. Santhosh Kumar,	Deposition and characterisation of co-evaporated Cu ₂ SnS ₃ thin films for photovoltaic applications	International conference on sustainable energy Technologies,		International conference on sustainable energy Technologies	PSG College of Engineering, Coimbatore	2014
B.S. Akhil, Krishnan Balasubramanian and M.C. Santhosh Kumar	Modeling Laser Ultrasonic Inspection using FEM			National seminar and International exhibition on Non-Destructive Evaluation, NDE-2014	Pune	2014
Neelkamal Kulhara, Arpita Ghosh, M.C. Santhosh Kumar	Estimation of Moisture in Blast Furnace Coke by Non-Invasive Technique			National seminar and International exhibition on Non-Destructive Evaluation, NDE-2014	Pune	2014
R. Swapna, T. Srinivasa Reddy, K. Venkateswarlu, M.C. Santhosh Kumar	Effect of Post-Annealing on the Properties of Eu Doped ZnO Nano Thin Films			2nd International Conference on Nanomaterials and Technologies (CNT 2014),	Hyderabad, India	2014
R. Swapna, K. Venkateswarlu, M.C. Santhosh Kumar	Heat Treatment Impact on the Properties of Na and N Dual Doped ZnO			2nd International Conference on Nanomaterials and	Hyderabad, India	2014

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	Thin Flms by Spray Pyrolysis			Technologies (CNT 2014),		
Sarath chandran, N. Jothilakshmi, Paritosh Nanekar and M.C. Santhosh Kumar	Non-destructive Characterization of Cracks in Cladded Pressure Vessels			National seminar and International exhibition on Non-Destructive Evaluation, NDE-2013		2013
Nithin P.V., Krishnan Balasubramanian, Prabhu Rajagopal and M.C. Santhosh Kumar	Flying Spot Laser Thermography for the Detection of Surface Breaking Cracks on steal			National seminar and International exhibition on Non-Destructive Evaluation, NDE-2013		2013
R. Ameeruddin, M.C. Santhosh Kumar	Growth of Vertically Aligned ZnO Nanowires for Light Emitting Diodes (LED's) Applications			International conference on thin films and applications (ICTFA)	Sastra Uinveristy, Thanjavur	2013
R. Amiruddin, Akshay Srinivas, M. C. Santhosh Kumar,	Fabrication of Hydrophobic ZnO Surfaces on SS304 Substrates			National Conference on Advanced Materials for Emerging Technologies	Sri Ramakrishna Mission Vidyalaya College of Arts and Sciences, Coimbatore	2013
Saheer Cheemadan, K. Keerthana and M.C. Santhosh Kumar	Analysis of Structural and Electrical Properties of Aluminium doped lead sulphide			National Conference on Advanced Materials for Emerging Technologies	Sri Ramakrishna Mission Vidyalaya College of Arts and Sciences, Coimbatore	
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K. Anitha, J. Nasiha, M.C. Santhosh Kumar	Ferromagnetism in Cobalt doped CeO ₂ nanocrystals by co-precipitation			3 rd International conference on Frontiers in Nanoscience and Technology (Cochin nano-2011)	CUSAT, Kochi, Kerala, India	2011
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