Curriculum Vitae



Dr. Santhosh Kumar M. C. received his Ph.D. from Cochin University of Science And Technology (CUSAT), Cochin, India in 2003 in the field of semiconductor thin films. He has more than 20 years of teaching experience at 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, nanomaterials, and Non-destructive Evaluation. Thirteen doctoral students have completed their degree under his guidance and five students pursuing Ph.D. in his research group. He was principal investigator for two major DST sponsored research projects. He has published more than 100 International papers in reputed journals.

1. Name: Dr. Santhosh Kumar M.C.

2. Designation: Professor

3. Office Address: Department of Physics

National Institute of Technology, Tiruchirappalli, Tamil Nadu, India

4. Telephone (Direct) (Optional): 04312503611

Telephone: Extn (Optional):

Mobile (Optional):

6. Field(s) of Specialization: Thin Films, Optoelectronic materials,

Thin film solar cells, Nanomaterials, and

Non-destructive Evaluation

7. Employment Profile

Job Title	Employer	From	То
	1 7		
Professor	National Institute of Technology,	March 2024	Till date
	Tiruchirappalli, Tamil Nadu, India		
Associate professor	National Institute of Technology,	March 2018	March 2024
	Tiruchirappalli, Tamil Nadu, India		
Assistant Professor	National Institute of Technology,	May 2006	March 2018
	Tiruchirappalli, Tamil Nadu, India		
Lecturer	Rajagiri School of Engineering	September	April 2006
	and Technology, Kochi, Kerala	2002	

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	I Class	Physics
B.Sc.	Calicut University	1995	I Class	Physics (main)
SSLC	Kerala State Board	1990	I Class	General

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
M.Tech. NDT	Department of Physics	June 2006	May 2008
Subject co-			
ordinator			
B.Tech. Subject	Department of Physics	June 2011	May 2013
co-ordinator			
M.Tech. NDT	Department of Physics	January 2015	December
Subject co-			2016
ordinator			
M.Sc. Physics	Department of Physics	January 2018	June 2020
Coordinator			
Associate Dean	Office of Dean Research and	January 2020	January 2023
(Research &	Consultancy		
Consultancy)			
B.Sc. B.Ed Department of Physics		June 2024	Till date
department co-			
ordinator			

10. Academic/Administrative Responsibilities outside the University

Position	n	Institution	From	To
Board of	Studies	Department of Physics, Cochin	2015	2018
member		University, Kerala		
Board of	Studies	KL University, Andra Pradesh	2014	
member				
Board of	Studies	Vimala College, Trissur, Kerala	2018	2024
member				

Board of Studies	Gayatri Vidya Parishad College	2018	2021
Member	of Enginnering, Visakhapatanam,		
	Andra Pradesh		
Board of studies	PSNA College of Engineering	2022	
Member	and Technology (autonomous),		
	Dindigul, Tamil Nadu		
Board of studies	Periyar Maniammai Institute of	2022	
Member	Science & Technology (deemed		
	to be University), Vallam,		
	Thanjavur, Tamil Nadu		

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

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

13. Details of Academic Work

- (i) Curriculum Development
 - 1. Sensors and Transducers
 - 2. MEMS and Microsystems
 - 3. Solar Photovoltaic Technology
 - 4. Semiconductor Physics
 - 5. Digital Radiography and Computed Tomography
 - 6. Neutron Radiography
- (ii) Courses taught at Postgraduate and Undergraduate levels
 - 1. Physics-I I Year B.Tech.
 - 2. Physics-II I Year B.Tech.
 - 3. Energy and Environmental Engineering I Year B.Tech.
 - 4. Instrumentation systems M.Sc. (Applied Electronics/Applied Physics)
 - 5. VLSI Technology M.Sc. (Applied Electronics)
 - 6. Thin Film Technology & Applications M.Sc. & M.Tech
 - 7. Advanced NDT Techniques I M.Tech. (NDT)
 - 8. Advanced NDT Techniques II M.Tech. (NDT)
 - 9. Sensors and Transducers M.Sc. (Applied Physics/Physics)
 - 10. Electromagnetic theory M.Sc. (Physics)
 - 11. Electronics M.Sc. (Physics)
 - 12. Surface NDE Techniques M.Tech. (NDT)

(iii)Projects guided at Postgraduate level

M.Tech. Projects

S1.			Month and	Co quido
No.	Title of thesis	Name of Student	year of submission	Co-guide (if any)
1	Advanced phased array ultrasonic testing for thick austenitic and ferritic welds	Suggu Hemanth	May 2024	Dr. Krishnan Balamsubramian, IIT Madras
2	Development of non-destructive method for hardness and case depth evaluation of induction hardened tube shaft	Sourav Bhowmik	May 2023	Shivangouda Biradar Dana Anand India Pvt. Ltd
3	Analysis of ultrasonic signal from defects in steel with COMSOL and auto-detection of defects with machine learning	Hindocha Shyam Pravinbhai	May 2022	
4	Development and validation of inspection procedure to identify vertical defect present in thick wall plate using Phased Array and TOFD	Vishnu V Gupthan	May 2021	Mr.Gunasekar.S WRI-BHEL
5	Improvement in Quality of Neutron Radiography Images of a Low Flux Neutron Source Using Image Processing Tools	Shaheer Ali V	June 2020	Girish N. Nambodiri VSSC
6	Defect Characterization in Laminate and Sandwich Honeycomb Composite Specimens Using Pulse Theromgraphy	Abdul Bari K P	June 2020	S. Hari Krishna VSSC
7	Development of Algorithm for Automatic Defect detection in X-ray images of Welds	Adithya Murali	May 2019	Dr. T. Saravanan IGCAR
8	Assessment of eddy current inspection on aerospace structure through numerical simulation	Sreechand G. S	May 2018	Mr. Bharath k Kodumuru
9	Establishment Of Phased Array Ultrasonic Technique For Full Penetration Header Stub Welding	Austin C	May 2017	Mr.Gunasekar.S
10	Replacement Of Radiography Technique With Phased Array And TOFD For Tubes With Smaller Thickness	Sandeep Kumar	May 2016	Mr.Gunasekar.S
11	Automatic Detection And Classification Of Defects In Radiographs	Rupam Baruah	May 2016	Mr.Gunasekar.S
12	Inspection Of Surface Breaking Flaws Using Laser Generated Rayleigh Waves	Akhil B S	May 2015	Dr.Krishnan Balasubramanian
13	Estimation Of Moisture In Blast Furnace Coke By Non – Invasive Technique	Neelkamal Kulhara	May 2015	Dr.Arpita Ghosh
14	Flying Spot Laser Thermography For Fast Detection Of Surface Breaking Cracks Of Stainless Steel	Nithin P V	May 2014	Prof.Krishnan Balasubramanian
15	Non-Destructive Characterization Of Cracks In Cladded Pressure Vessels	Sarath Chandran M	May 2014	Sri.Paritosh Nanekar

16	Low Frequency Eddy Current Inspection On	Sachin Sajeev	May 2013	Dr.Krishnan
	Reformer Tubes			Balasubramanian
17	Defect Detection In GFRP Specimen And	R. Shunmuga	May 2012	Dr.John Philip
	Air Gap Measurement In Cylindrical	Sundaram		
	Geometries Using Infrared Thermography			
18	Angular Resolution In Guided Waves	S. Jagajith	May 2011	-
19	Defect Sizing And Profile Mapping Using	Visakh	May 2011	-
	Digital Radiography	Chandran		
20	Influence Of Thresholding Procedures In	Amarnath K P	May 2010	Dr.C.Babu Rao
	Noise Reduction Of Ultrasonic Signals			
	Using Wavelet Processing			
21	Automated Classification Of Defects In	Anil Kumar G	May 2010	Dr.C.Babu Rao
	Ultrasonic Inspection Using Artificial			
	Neutral Networks			
22	Preparation Of Pb _{1-X} Fe _x S Thin Film And	Gomathi E	May 2008	Dr.K.Siva Prasad
	Formation Of n- ITO/PbS Self Assembled			
	Heterojunctions By Chemical Bath			
	Deposition (CBD) Technique	~ ~		
23	Pipeline Girth Weld Automated Inspection	S.Rajasuhas	May 2009	I.Mohsin
	Using Phased Array Zone Discrimination			
	Technique For Improved Probability Of			
24	Detection And Sizing	NI II	M. 2000	TM-1
24	Ultrasonic Phased Array Technique- An	N.Hemachandra	May 2009	I.Mohsin
	Alternative Nde Technique For The	Reddy		
25	Inspection Of Pipeline Tie-In Welds	Siva Sankar Y	Mar. 2009	Du Jaha Dhilia
25	Thermal Imaging Of Adhesively Debonded Structures	Siva Sankar Y	May 2008	Dr.John Philip
26	Development Of Magnetostrictive	S.Selva	May 2007	Dr.Krishnan
20	Transducers For Structural Health	Ganeshan	1v1ay 2007	Balasubramanian
	Monitoring Of Plate Like Structures	Ganeshan		Darasuoramamam
27	Optimization Of Al Doped ZnO TCO Thin	Akash Arya	May 2013	Dr.R.Prasanth
2'	Films For DSSC Electrode Applications	7 Kasii 74i ya	141ay 2013	D1.IX.I Iasanui
28	Fabrication Of Superhydrophobic Zno Thin	Aarthi.S	May 2017	Dr.R.Prasanth
	Films For Self-Cleaning Applications		1.10, 2017	21.11.11 140411411
	1 1 min 1 of bell Cleaning 1 ppilearions	1	1	I

M.Sc. Projects

Sl. No.	Title of thesis	Name of Student	Month and year of submission	Co-guide (if any)
1	Effect of deposition time on CdS thin Films by chemical bath deposition method for Cu ₂ FeSnS ₄ based devices	Kathir K	May 2023	
2	A study on the effect of thickness of spin coated PbS thin films and fabrication of FTO/AZO/PbS/Ag Heterojunctions Devices	Nisham N	May 2023	
3	Room Temperature Deposition of Cu ₂ ZnSnS ₄ thin Films by SILAR technique for photovoltaic Applications	Shivam Gupta	May 2023	

	-		
4	Preparation and Characterization of CuO Thin Films by RF- Magnetron Sputtering and Fabrication of Transparent p-n Heterojunction Devices	Ankit Kumar	April 2022
5	On the effect of Cu variation and annealing of Cu-Zn-S thin films by SILAR deposition for photovoltaic applications	Mahammed Suleman Patel	April 2022
6	Study on In doped ZnO thin films as electron transport layer for lead free Perovskite solar cells and its simulation	Ebin Joseph	May 2021
7	Preparation and characterization of ITO thin films by a two stage process	Akash Kumar	June 2020
8	Deposition and Characterization of Copper Indium sulphide Absorber Layer for Solar Cell Applications	Lucky Donald Lyngdoh Kynshi	June 2020
9	A Study on the Photocatalytic Properties of RF Sputtered Ti _{1-x} Zn _x O Thin Films	P Sasikumar	May 2019
10	Synthesis and Characterisation of Cu ₂ ZnSnS ₄ for solar cell application	Anupama A	May 2019
11	Preparation and characterization of Sb ₂ S ₃ thin films by physical vapour deposition	Stephin James	May 2018
12	Ga Doped CdS thin films grown by chemical bath deposition for solar cell applications	Aiswarya N. K.	May 2018
13	An Investigation On The Deposition And Properties Of PEDOT:PSS Polymer Films And Fabrication Of n- ZnO/NpPEDOT:PSS Schottky Diode	Harikeerthana M.G	May 2017
14	Studies On Optical And Electrical Properties Of Zn Doped Cds Thin Films And Fabrication Of SnS/CdS Heterojunctions	Haritha K.H	May 2017
15	Deposition Of Super Hydrophobic ZnO Layers For Self-Cleaning Applications	Sruthy Poulose	May 2016
16	Deposition Of SnS Absorber Layer For Thin Film Solar Cell Applications	B.Hemanth Kumar	May 2016
17	Deposition Of Cu-Zn-S Thin Films, Using Successive Ionic Layer Adsorption And Reaction (SILAR) Method	Edwin Jose	May 2015
18	Effect Of Substrate Temperature of CdO Thin Film By RF Magnetron Sputtering	Semin Xavier	May 2015
19	An investigation on the deposition and characterization of Phosphorous and Nitrogen dual acceptor doped p-type ZnO thin Films	Sebin Devasia	May 2014

•	T = 0 = 0 = 0 = 0		T	
20	Effect Of Deposition Time And Cadmium Doping On The Structural, Electrical And Optical Properties Of Lead Sulphide Thin Films Prepared By Chemical Bath Deposition (CBD) Method	Muhammedali D Kakhandaki	May 2014	
21	Analysis Of Structural And Electrical Properties Of Aluminium Doped Lead Sulphide Thin Films Prepared By CBD Method	Keerthanaa.K	May 2013	
22	Deposition Of Zinc Oxide Thin Films On Stainless Steel (SS304) Substrate By Spray Pyrolysis	Akshay Srinivas	May 2013	
23	Preparation Of PBS Thin Films By Chemical Bath Deposition CBD And Formation Of n-ZnO/P-PbS Heterojunctions	Priyadarshini. M	May 2012	
24	Deposition Of Na And N Dual Acceptor Doped p-Type ZnO Nanorods	A. Deepika	May 2012	
25	Room Temperature Ferromagnetism In $Ce_{1-X}Co_xO_{2\delta}$ Nanocrystals	Anitha. K	June 2011	
26	Preparation And Characterization Of Pb(Zr _x Ti _{1-X})O ₃ Films By A Simple Dip Coating Method And Fabrication Of Meso Scale Micro Cantilever	Nasiha. J	June 2011	
27	Preparation, Structural And Optical Properties Of Ce _{1-X} Zn _x O ₂ Thin Films	Vasumathy. R	May 2010	
28	Synthesis And Luminescence Properties Of Eu ³⁺ And Tb ²⁺ Doped ZnO Based Phosphor	A Safarulla	May 2009	
29	Effect Of Substrate Temperature And Annealing On The ZnO Thin Films By Spray Pyrolysis	S.Anbumozhi Angayarkanni	May 2009	
30	Ultrasonic Spotlight Tracker	Tamilselvi.S	May 2008	
31	Embedded Web Server For Controlling And Monitoring Devices	Aneesh.N	May 2007	
32	Synthesis Of Doped Sno ₂ Nano Composite By Hydrolysis Process	M.Saraswathi	April 2008	Mrs.K.Maithilee
33	Synthesis Of SnO ₂ -Al ₂ O ₃ Nano Composite By Chemical Precipitation Method	S.Kowsalya	April 2008	Mr.P.Sakthivel
34	Preparation And Charachterization Of Cu Doped PbS Thin Films	G.Charaniya	April 2008	Mrs.K.Maithilee
35	Preparation And Charachterization Of Fe Doped PbS Thin Films	S.Saraswathi	April 2008	Mrs.M.Malarvizhi

(iv)Other contribution(s)

14. Details of Major R&D Projects

Title of Ducinet	Eunding Agangu	Dura	ation	Status
Title of Project	Funding Agency	From	То	Ongoing/ Completed
Realization of crack free thick films PZT for application to piezo cantilever fabrication	DST-SERC	2007	2010	As Co-PI Completed
Fabrication of ZnO nanoparticle based light emitting devices by screen printing technique	TEQIP	2007		As PI Completed
Preparation of p- ZnO films by dual acceptor doping and fabrication of homo- junction devices	DST Fasttrack Scheme	2010	2013	As PI Completed
Deposition of earth abundant ternary CuZnS thin films and Fabrication of Cadmium free solar cells.	DST-CERI 2015	2016	2019	As PI Completed
Mn based melt spun ribbons for magnetic cooling of naval equipments	NAVAL RESEARCH BOARD (NRB)	2022	2025	As Co-PI Ongoing

15. Number of PhDs guided: 13

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
T. Prasada Rao	Preparation and characterization of n-type and p - type ZnO thin films for optoelectronic applications	Supervisor	2011
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	2017

Srinivasa Reddy Tippasani	Deposition and Characterization of Tin Sulphide and Copper Tin Sulphide Thin films-Prospective Absorber Layers for Solar Cells	Supervisor	2018
Saheer Cheemadan	Deposition and Characterization of NiO thin films by RF magnetron sputtering and fabrication of p-NiO/p-CuO/n- CdO: ZnO heterojunctions	Supervisor	2018
B. Hemanth Kumar	Deposition and Characterization of Indium Sulphide and Copper Antimony Sulphide Thin Films for Optoelectronic Device Applications	Supervisor	2021
Edwin Jose	A Study on the SILAR Deposition of Cu-Zn-S Thin Films and its Application as Hole Transport Layer in Organic Solar Cells.	Supervisor	2021
Devika Mahesh	An investigation on the effect of doping and seed layer morphology on the growth, properties and photocatalytic activity of 1D ZnO nanorods	Supervisor	2022
Girish N. Namboodiri	Investigations on the Detection of Sealed Low-density Materials using Thermal Neutron Radiography and 3D X-ray Computed Tomography	Supervisor	2022
Sai Guru Srinivasan S	Deposition of Cu ₂ O and CuO thin films by reactive sputtering for heterojunction devices, resistive random access memory and photocatalysis	Supervisor	2022
Aabel P	Fabrication of Cadmium Free Solar Cells and Resistive Memory Switching Devices based on CuZnS and Cu ₂ ZnSnS ₄ Thin Films	Supervisor	2023
John Paul	Graphene Oxide Incorporated, Post-Transition Metal Doped Zinc Oxide Thin Films and Nanorods for Efficient Dye Degradation	Supervisor	2024
Nidheesh Kumar B	Thickness measurement and flaw detection of low density materials on different substrates using terahertz time domain spectroscopy and imaging	Supervisor	2024

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

Date (s)	Title of Activity	Level of Event (International/ National/ Local) International	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue Channei India
2023	International Conference on Thin Films & Nanotechnology: Knowledge, Leadership, & Commercialization,		Speaker	Department of Physics, Indian Institute of Technology Madras, India	Chennai, India
19 th -21 st December 2019	3rd International Conference on Solar Energy Photovoltaics (ICSEP-2019)	International	Participant	School of Electrical Engineering, KIIT (Deemed to be University),	Bhubaneswar, Odisha
12 -15 July 2016	8 th International conference on Technological Advancement of Thin Films & Surface Coatings.	International	Participant	Thin Film Society	Singapore
20-23 February 2016	4 th International Conference on Frontiers in Nanoscience and Technology, Cochin Nano-2016	International	Participant	CUSAT	Kochi, Kerala
28-29 April 2015	Conclave on academic reforms, , NIT Tirichirappalli, India	National	Participant	NIT-T	Tiruchirappalli
4-6 December 2014	National Seminar Exhibition on Non Destructive Evaluation	National	Participant	NIT-T	Pune

3-5	2 nd International	International	Participant	CUSAT	Kochi, Kerala
January	Conference on	michiationar	Tarticipant	COSMI	Rocin, Refuia
2013	Optoelectronic				
	Materials and thin				
	Films for				
	Advanced				
	Technology				
22 – 25	1 st International	International	Participant	The	Brisbane,
October	conference on			University of	Australia
2012	Emerging			Queensland	
	Advanced				
14 17	nanomaterials 3 rd International	International	Doutisinant	CLICAT	Vachi Varala
14 -17		International	Participant	CUSAT	Kochi, Kerala
August 2011.	Conference on Frontiers in Nano				
2011.	science and				
	Technology,				
	Cochin Nano-2011				
24-28,	Frontiers in Optics	International	Participant	SPIE	Rochester,
October	2010/ Laser		_		New York
2010	science XXVI				USA
10-12	National Seminar	National	participant	ISNT	Tiruchirappalli
December	on NDE (NDE				
2009	2009)	NT d' 1	,	NUTTIZ	0 411 1
2-3, May 2008	National Conference on	National	participant	NITK, Surathkal	Surathkal, Karnataka
2008	Thin Films			Surauikai	Kaillataka
	materials and				
	Devices				
24-25,	National	National	participant	Dept. of	Tiruchirappalli
January	Conference on			Metallurgical	
2008	emerging			and	
	materials and			Materials	
	Technologies for			engineering,	
1.6	India 2020	T		NIT-T	m: 1: 1::
4-6,	International	International	participant	Department	Tiruchirappalli
February 2007	Conference on Nanomaterials and			of Chemistry NIT-T	
2007	Its Applications,			1811-1	
4-6,	5 th International	International	participant	NIT-T	Tiruchirappalli
January	Conference on	incomanona	Participant		Thacimappain
2007	Trends in				
	Industrial				
	Measurements and				
	Automation				
11-16,	Workshop on	National	Participant	ISSS	Bangalore
December	Mems and Smart				

2006	structures				
7-9,	National Seminar	National	Participant	ISNT	Hyderabad
December	on Non				
2006	Destructive				
	Evaluation				

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

Title of Activity	Level of Event	Date (s)	Role	Venue
	(International/			
	National/ Local)			
Workshop on Innovation,	National level	24 - 29	Coordinator	NITT
Start-up, and Technology		January		
Transfer		2022		
Webinar series on	Local level	11 -28	Coordinator	NITT
Research Grants & Patent		October		
Filing		2020		
_		(5days)		
National symposium in	National level	6 th March	Staff	NITT
Physics-InPhyNITT-2020		2020	convener	
National symposium in	National level	6 th March	Staff	NITT
Physics-InPhyNITT-2019		2020	convener	
National symposium in	National level	09 March	Staff	NITT
Physics-InPhyNITT-2018		2018	convener	
National Conference on	National level	27-28	Convener	NITT
Advanced Materials:		February		
Processing and		2017		
Characterization				
Workshop on	National level	4 -6	Convener	NITT
Characterization of		August		
materials for advanced		2016		
applications				
(TEQIP-II sponsored)				
Short term programme on	National level	7-8	Convener	NITT
Nano structured materials:		October		
Processing and		2014		
characterization				
Golden Jubilee Lecture by	Local level	04.04.2014	Convener	NITT
Prof. G.K.Sivakumar, NIT				
Surathkal				
Faculty Development	National level	15-19 July,	Convener	NITT
Programme on Physics for		2013		
Emerging Technologies				
(Self Financing)				
Invited Talk by Prof.	Local level	13.02.2013	Convener	NITT

Paulraj Manidurai from				
University of Concepcion,				
Chile				
TEQIP sponsored one day	National level	23.02.2008	Convener	NITT
workshop on				
Nanostructures and				
Device				
TEQIP sponsored two day	National level	12-13	Convener	NITT
national workshop on		October,		
Non-Destructive Testing-		2007		
Quality 2007				
TEQIP sponsored one day	National level	10.03.2007	Convener	NITT
workshop on Gateway to				
GATE 2008-Workshop				
for aspirants				

18. Invited Talks delivered

Topic	Date	Inviting Organization
Deposition and	20 th March 2024	Expert talk in One week high end
Characterization of Thin		workshop (Karyashala) Advance
Films and Nanostructures		characterization techniques for
		nanomaterial research, NIT
		Tiruchirappalli, India
Semiconductor	12 th March 2024	Invited talk in India's Techade - India
Nanostructures and Thin		Semiconductor Mission, IIIT
Films for Solar Energy		Tiruchirappalli, India
Harnessing		
Nanostructures and Thin	13 th February	ATAL FDP on Nanomaterials: Methods
Films for Solar Energy	2024	and Applications, College of
Harnessing and		Engineering, Adoor, Kerala, India
Environmental Remediation		
Metal oxide thin films and 1	19 th January 2024	National Conference on Functional
D nanostructures for UV-		Materials and Applications, Dept. of
detectors and Photocatalysis		Physics, Cochin University of Science
		And Technology, Kochi, India
Ternary and Quaternary	28 th November	International Conference on Recent
Earth Abundant	2023	Advances in Physical Science, Bharata
Semiconductors for Thin		Mata College, Thrikkakara, Kochi, India
Film Solar Cells		
Recent advances in thin film	11 th September	FDP on Research Frontiers in Physics,
solar cells	2023	Govt College of Technology,
		Coimbatore, India
Photocatalytic activity of	8 th July 2023	International Conference on Thin Films
indium doped zinc oxide seed		& Nanotechnology: Knowledge,
layers and one-dimensional		Leadership, & Commercialization,
nanorods under solar		Department of Physics

irradiation		Indian Institute of Technology Madras, India
Preparation of thin films for optoelectronic and solar cell applications	24 th February 2023	National Seminar on deposition and characterization of thin film nanomaterials, Indira Ganesan college of Engineering, Tiruchirappalli, India
Emerging Alternate Photovoltaic Technologies	17 th March 2022	Indo-Japan workshop on Advancement in concentrator Photovoltaic system and its thermal management, Department of Mechanical Engineering, NIT Trichy
Emerging Materials for solar photovoltaic technology	25 th February 2022	Workshop on Nanomaterials for Emerging Applications NMEA-2022, Department of Physics, NIT-Trichy
Some novel ternary semiconductors for thin films solar cells	24 th August 2021	Invited talk in K. Ramakrishnan college of Engineering, Samayapuram Trichy
Transparent Conducting Oxide Thin Films: Preparation and Applications	16 th August 2021	ATAL-FDP on Fabrication and characterization of thin films for future technological applications, The National Institute of Engineering, Mysuru,
Recent Advances in thin Film Solar Cells	11 th August 2021	International workshop on thin films and nanomaterials, Sathyabhama Institute of Science and Technology, Chennai
Recent Advances in Cadmium Free Ternary Chalcogenide Solar Cells	16 th July 2021	Second International Conference on Energy, Environment and Advanced Materials for a Sustainable Future (ICEEAMSF-2021), Kongu Engineering College, Perundurai - 638 060, Erode, Tamil Nadu, India,
Advances in Materials for Solar Photovoltaics	1 st July 2021	International Conference on Advanced Materials (ICAM 2021), Department of Physics, University of Calicut, Kerala, India – 673635
Materials for Solar Energy: Present and Future Prospects	21 st May 2021	Invited talk in AICTE Margdharshan Workshop on Recent Research Trends and Future Research Directions in Solar Energy Technologies, Department of Electrical and Electronics, NIT Trichy
Solar Energy: Present and Future Prospects	4 th December 2020	Invited talk, Department of Physics, VIT Vellore
Transparent Conducting Oxides: Preparation and Applications	5 th November 2020	Refresher Course in Material Sciences: Recombinant Memetics, University of Calicut,
Thin film solar cells and Nanomaterials	31st January 2020	TNSCST & NCST sponsored National Seminar on Popularization of Solar

		Energy and Materials for Solar Cell
		(SEMSC – 2020), Periyar EVR College
		(Autonomous), Tiruchirappalli – 620
		023
D (A1 '.1' E1	12th I 1 2010	
Recent Advances in thin Film Solar Cells	12 th July 2019	TEQIP-III Sponsored FDP on Recent Advances in Solar Systems, Department of Mechanical Engineering, NIT Calicut
Physics of Photovoltaic cells	9 th May 2019	2-week workshop on Recent Advances in Solar Energy Technologies for Sustainable Development, Department of Mechanical Engineering, NIT Tiruchirappalli
Basics of Thin Films	25 th February 2019	SPECTRUM 2018-19. National Conference on nanostructured materials, Muhammed Abdurahiman Memorial Orphanage College, Mukkam, Kozhikode,
Solar cell technologies: present and future	18 th February 2019	Prof. S.T. Rajan endowment lecture, St. Joseph's College, Tiruchirappalli
perspectives Advances in Thin Film Solar	5 th December	Two weeks workshop on Applications
Cells	2018	of Nanotechnology in Solar Systems, Department of Mechanical Engineering, NIT Tiruchirappalli
Thin Films for	23 rd March 2018.	National conference on Nanomaterials,
optoelectronics and		R.V.S. Kumararn Arts and Science College, Ayyalur, Dindigul,
Mechanical applications		Conege, Myyarur, Dindigur,
Metal oxide nanostructures	04 th January	Refresher course in nanosciences, UGC-
for high speed uv-detector	2018	Human Resource development Centre, Bharahidasan University,
and some mechanical		Tiruchirappalli – 620023,
applications		
Thermal evaporation, Ion	27 th November	AICTE-QIP Sponsored two weeks FDP
Beam Sputtering and Ion	2017	on Thin Films Deposition and Characterization, Alagappa Chettiar
Plating		Govt. College of Engineering and Technology, Karaikudi -630 003
Recent advances in	22 nd September	Invited talk at Department of Physics,
Nanostructures and Thin	2017	Crist College, Irigalakkuda, Kerala,
films		

Metal oxide nanostructures	14 th February	National Seminar on Recent
for high speed ultraviolet	2017	Advancements in Photonics – NSAP2017, Vimala College, Thrissur,
Photodiodes		Kerala,
Thin Films for	7 th October 2016	National Conference on Advanced
Optoelectronics and		Materials (NCAM-2016), St. Joseph's College, Trichy
Photovoltaic Applications		
Optical and Electrical	4-6 August 2016,	Workshop on Characterization of
characterization of thin films		Materials for advanced Applications, Department of Physics, NIT Trichy
Metal oxide nanostructures	2 nd July 2016.	One day workshop on Nanotechnology
for optoelectronics and		and its Applications, Department of Mechanical Engg., Vimal Jyothi college,
Mechanical applications		Chemperi, Kannur, Kerala
Advances in Thin Film Solar	6-9 June 2016,	Workshop on utilization of Techniques
Cells		of renewable energy sources, Department of Mechanical Engineering,
		NIT Trichy
Metal oxide nanostructures	23 rd January 2016	National level conference on
for optoelectronics and		Technologies Behind Nanoscience : Fabrication,
Mechanical applications.		diagnostics and applications, MA College, Kothamangalam,
Thin Film Technology and its	15 th January 2016	STTP on Recent Advances in Applied
applications		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	19 th December	FDP on Green nanotechnology in
applications	2015	materials engineering and energy applications, College of Engineering, Adoor, Kerala
Metal oxide nanostructures		Invited talk in National Seminar at
for optoelectronic and		Devamatha college, Kuravilangad, Kerala
mechanical applications		120144
Evolution of Light Sources	17 th November 2015	TEQIP-II sponsored expert talk in College of Engineering, Adoor, Kerala,
Metal oxide nanostructures	6 th November	Modern trands in physics research
		Modern trends in physics research (MTPR-2015) St. Stephen's College
for optoelectronics and	2015	Pathanapuram, Kollam, Kerala,
Mechanical applications.		

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, Kayamkulam, 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, Thalasery, Kerala
NMR spectroscopy in NDT Thin films and applications	March 2008 February 2008	Department of Chemistry, NITT Department of Metallurgy and Materials engineering, NITT
Nanostructures for MEMS applications	February 2008	Department of Physics, NITT
MEMS and Smart systems	February 2007	TEQIP sponsored workshop, Govt. Engg College, Salem

19. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No. with
Member/ Honorary Member / Life		date
Member)		
Life member	ISTE	LM 75735
Life member	ISNT	LM

20. Academic Foreign Visits

Country	Duration of Visit	Programme
South Korea	25 th November-	TEQIP training at KAIST
	24 th December	
	2007	
USA	October 24-28,	Frontiers in Optics 2010/ Laser science
	2010	XXVI", Rochester, New York USA,
Australia	22 nd – 25 th October	1 st International conference on Emerging
	2012	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
Neju Mathew Philip, and M. C. Santhosh Kumar	Tailoring the opto- electronic properties of SnS thin films by Indium doping and fabrication of heterojunction diodes	Materials Science in Semiconduc tor Processing	183	108748	2024	4.2
Neju Mathew Philip, and M. C. Santhosh Kumar	Tuning of electronic properties of coevaporated Ag: SnS thin films for heterojunction devices	J Mater Sci: Mater Electron	35	075018	2024	2.8
T Srinivasa Reddy; Vijaya Krishna S; A. Vinaya	Facile Synthesis and Characterization of PbS thin films	Semiconduc tor Science and Technology	39		2024	1.9

Kumar; Ramanjaneyul u M; Rajasekhar N; M C Santhosh Kumar Devika Mahesh,	doped with various Aluminum Concentrations for Photovoltaic Applications Photocatalytic	J Mater Sci:	35	86	2024	2.8
John Paul, and M. C. Santhosh Kumar	activity of indium doped zinc oxide seed layers and one dimensional nanorods under solar irradiation	Mater Electron	33	00	2024	2.0
John Paul, K. Dhivyaprasath, M. Ashok, M.C. Santhosh Kumar	Photodegradation of methylene blue dye using graphene oxide incorporated, post-transition metal doped zinc oxide thin films by spray pyrolysis,,	Physica Scripta	99	025953	2024	2.6
John Paul, M.C. Santhosh Kumar,	Enhanced photocatalytic activity of graphene oxide incorporated ZnO nanorods doped with post-transition metals	Ceramics International	50	9081- 9088	2024	5.1
B Nidheesh Kumar, Sachinlal Aroliveetil, M C Santhosh Kumar, M Nallaperumal, S Thiruppathirajan , K P Sruthi Krishna,Krishna n Balasubramania n, K K Moideenkutty and L Mohan Kumar	Nondestructive evaluation of cork phenolic-based aerospace structure using Terahertz time domain spectroscopy and imaging	Nondestructi ve Testing and Evaluation	39	905–922	2024	2.6
B Nidheesh Kumar, Sachinlal	Thickness Measurement of Polychlorotrifluoroet	Nondestructi ve Testing and		1–17	2024	2.6

Aroliveetil, M C Santhosh Kumar, M Nallaperumal, S Thiruppathirajan , K P Sruthi Krishna, Krishnan Balasubramania n, K K Moideenkutty and L Mohan Kumar	hylene Coating over Metallic Seal Using Terahertz Time- Domain Spectroscopy	Evaluation				
P Aabel; S Sai Guru Srinivasan; R. Amiruddin; M.C. Santhosh Kumar	On the memory switching property of ternary CuZnS thin films	Applied Physics A	129	827	2023	2.5
B Nidheesh Kumar, M C Santhosh Kumar, M Nallaperumal	Nondestructive Evaluation of Cryofoam with uneven surface by Continuous Wave Terahertz Imaging using Dynamic Depth Focusing Technique	Journal of Nondestructi ve Evaluation	42	103	2023	2.6
N. Aravind and M.C. Santhosh Kumar	Effect of substrate temperature on the properties of Cu ₂ FeSnS ₄ thin films by vacuum spray pyrolysis and fabrication of p-n heterojunction devices	Journal of Materials Science: Materials in Electronics,	34	1718	2023	2.8
John Paul, K. Dhivyaprasath, M. Ashok, M.C. Santhosh Kumar	Graphene oxide incorporated zinc oxide thin films by spray pyrolysis for efficient photodegradation of methylene blue	Chemistrysel ect	8	e202300 034	2023	1.9
P. Aabel, A. Anupama and M. C. Santhosh		Semiconduct or Science and	38	045010	2023	1.9

Kumar	Heterojunction Solar Cells	Technology				
P Aabel; S Sai Guru Srinivasan; R. Amiruddin; M.C. Santhosh Kumar,	Bi-Polar Switching Properties of FTO/CZTS/Ag Device	Journal of Materials Science: Materials in Electronics,	34	601	2023	2.8
B. Hemanth Kumar, N. Ramesh Reddy, M.C. Santhosh Kumar,	Cu rich Copper Indium Sulfide thin films deposited by co-evaporation for photovoltaic applications	Journal of Materials Science: Materials in Electronics	34	341	2023	2.8
Shahnaz Kossar, R. Amiruddin, Asif Rasool, M.C. Santhosh Kumar, Nagamalleswari Katragadda, Pranab Mandal, Nafis Ahmed	Study on ferroelectric polarization induced resistive switching characteristics of neodymium-doped bismuth ferrite thin films for random access memory applications	Current Applied Physics	39	221-229	2022	2.4
Saheer Cheemadan; M. C. Santhosh Kumar	Optoelectronic Properties of Highly Transparent Conducting CdO:ZnO Composite Thin Films by RF- Magnetron Sputtering,	Journal of Materials Science: Materials in Electronics	33	15638	2022	2.8
Asif Rasool, R. Amiruddin, Shahnaz Kossar, M.C. Santhosh Kumar	Multifunctional n- ZnO/MoO3/PEDOT: PSS-based hybrid device for high- speed UV light detection and ReRAM applications	Journal of Materials Science: Materials in Electronics	33	2090	2022	2.8
Devika Mahesh, John Paul, M.C. Santhosh Kumar	Photocatalytic degradation of Methylene Blue by ZnO seed layers and 1D nanorods	Materials Today: Proceedings	58	882-885	2022	
T, Srinivasa Reddy, M.C.	Influence of substrate temperature on	Materials Science Forum	1048	189	2022	

		T		1	1 1	
Santhosh	structural and optical					
Kumar,	properties of co-					
,	evaporated					
	Cu2SnS3/ITO Thin					
	Films					
Girish N	Improvements in	Advances in			2021	
Namboodiri, V	quality of Neutron	Non-				
ShaheerAli, M	Radiography images	destructive				
C Santhosh	of pyro components	Evaluation.				
Kumar, KK	used in aerospace	Lecture				
Moideenkutty,	applications using	Notes in				
M	image processing	Mechanical				
Nallaperumal, S	tools	Engineering				
Umasankar, G	toois	Lingineering				
· ·						
Levin	Enhanced Dissert 1	Motori-1-	20	1620	2021	
R. Swapna, K.	Enhanced Physical	Materials	39	1620	2021	
Venkateswarala	Properties of ZEO	Today:				
u, M. C.	Thin Films for	Proceedings				
Santhosh Kumar	Device Applications,					
Girish N	X-ray Computed	European	136	945	2021	2.8
Namboodiri,	Tomography and	Physical				
Manu Joseph, M	Thermal Neutron	Journal Plus				
C Santhosh	radiography for					
Kumar, M	detection of low dense					
Nallaperumal, K	compounds inside pyro					
K Moideenkutty,	elements used in space					
M. Arumugam, L	applications					
Mohan Kumar, J						
Jayaprakash T Srinivasa	Tommonotumo	Brazilian	51	1575-	2021	1.5
Reddy, M.C.	Temperature- dependent properties	Journal of	31	1573-	2021	1.3
Santhosh Kumar	of Co-evaporated CuS	Physics		1363		
Santilosii Kuillai	Thin Films	Filysics				
S. Sai Guru	Influence of deposition	Materials	284	128980	2021	2.7
Srinivasan, B.	time on the visible-	Letters	204	120700	2021	2.7
Govardhanan M.	light-driven	Letters				
Ashok, M.C.	photocatalytic activity					
Santhosh Kumar	of Cu ₂ O thin films by					
	reactive sputtering at					
	room temperature					
S Kossar, R	Ferroelectric	Superlattices	148	106726	2020	2.658
Amiruddin, A	polarization induced	and				
Rasool, NV	memristive behaviour	Microstructure				
Giridharan, D	in bismuth ferrite	S				
Dhayanithi, M.C.	(BiFeO ₃) based					
Santhosh Kumar	memory devices					
Asif Rasool, R.	Fabrication and	Superlattices	147	106682	2020	2.658
Amiruddin, I.	characterization of	and				
Raja Mohamed,	resistive random	Microstructure				
M C Santhosh	access memory	S				
Kumar	(ReRAM) device using					
	molybdenum trioxide					
	(MoO ₃) as a switching					
	layer					

Asif Rasool, R. Amiruddin, Shahanaz Kossar, M C Santhosh Kumar	Realization of In:ZnO/PEDOT:PSS based multifunctional device for ultraviolet (UV) light detection and resistive switching memory applications	Journal of Applied Physics	128	044503	2020	2.7
P. Aabel, M.C. Santhosh Kumar	Deposition and characterization of earth abundant CuZnS ternary thin films by vacuum spray pyrolysis and fabrication of p-CZS/n-AZO heterojunction solar cells	International Journal of Energy Research	44	7778- 7788	2020	4.3
Asif Rasool, M C Santhosh Kumar, M H Mamat, C Gopalakrishnan, R. Amiruddun	Analysis on different detection mechanisms involved in ZnO-based photodetector and photodiodes	Journal of Materials Science: Materials in Electronics	31	7100- 7113	2020	2.8
D Mahesh, M C Santhosh Kumar	Synergetic effects of aluminium and indium dopants in the physical properties of ZnO thin films via spray pyrolysis	Superlattices and Microstructure s	142	106511	2020	2.658
Girish N Namboodiri, M C. Santhosh Kumar, M Nallaperumal, S Umasankar, G Levin	Detection and Characterisation of Low Dense Charges Inside Metallic Devices Used in Space Applications by Neutron Radiography	Journal of Nondestructiv e Evaluation	39	16	2020	2.6
B. Hemanth Kumar, S Shaji, M C Santhosh Kumar	Effect of substrate temperature on properties of co- evaporated copper antimony sulfide thin films	Thin Solid Films	697	137838	2020	2.0
E Jose, M Mohan, M A. G. Namboothiry, MC Santhosh Kumar	Room temperature deposition of high figure of merit p-type transparent conducting Cu–Zn–S thin films and their application in organic solar cells as an efficient hole transport layer	Journal of Alloys and Compounds	829	154507	2020	5.8
B Hemanth Kumar, MC Santhosh Kumar,	On the conversion of amorphous In ₂ S ₃ thin films to polycrystalline In ₂ S ₃ and to In ₂ O ₃ through thermal	Materials Science in Semiconducto r Processing	111	104983	2020	4.2

	oxidation process					
P R Jyothi	oxidation process	Surface	26	(00, (0)	2020	2.2
	Effect of hydrophilic		36	680-686	2020	2.3
Sankar, S	coating on mesh wicks	Engineering				
Venkatachalapath	used in heat pipes					
y, M C Santhosh						
Kumar						
T. Srinivasa	Fabrication of visible	Journal of	15	365-376	2019	0.9
Reddy, M.C.	light photodetector	Ovonic				
Santhosh Kumar	using co-evaporated	Research				
	Cu ₂ SnS ₃ thin films					
B. Hemanth	Indium sulfide based	Sensors &	299	111643	2019	4.1
Kumar, M.C.	metal-semiconductor-	Actuators A:				
Santhosh Kumar	metal ultraviolet-	Physical				
	visible photodetector	1 my stour				
B. Hemanth	Fabrication of visible	Journal of	30	17986-	2019	2.8
Kumar, S. Shaji,	light photodetector	Materials	30	17998	2019	2.0
M.C. Santhosh		Science:		1/990		
	using co-evaporated					
Kumar	Indium Sulfide thin	Materials in				
0.1	films	Electronics	_	101000	0010	4.0
Saheer	Biocidal properties of	Materials	6	104009	2019	1.8
Cheemadan, M.	sputtered CdO:ZnO	Research				
C. Santhosh	multi-component thin	Express				
Kumar,	films for potential use					
Muthukumar	in pathogeic bacteria					
Krishnan,	control					
Rathinam Arthur						
James						
S. Sai Guru	Effect of oxygen	Solar Energy	187	368-378	2019	6.0
Srinivasana B.	partial pressure on the	Botar Ellergy	107	300 370	2017	0.0
Govardhanan, P.	tuning of copper oxide					
Aabel, M. Ashok,	thin films by reactive					
	sputtering for solar					
Kumar	light driven					
	photocatalysis				2010	
Devika Mahesh,	Enhanced	Thin Solid	686	137279	2019	2
B. Hemanth	luminescence property	Films				
Kumar and M. C.	of 1 D nanorods					
Santhosh Kumar	realised by Aqueous					
	Chemical Growth on					
	Indium doped Zinc					
	Oxide thin films					
Reshmi Krishnan,	Properties of Au	Materials	93	134-147	2019	4.2
R., Kavitha, V.S.,	incorporated	Science in				
Santhosh Kumar,	In ₂ O ₃ films	Semiconducto				
M.C.,		r Processing				
Gopchandran,		111000001119				
K.G., Mahadevan						
Pillai, V.P						
·	Surfactant mediated	Indian I Dhy	02	105 105	2010	1 6
Bincy John, G.		Indian J Phys	93	185-195	2019	1.6
Genifer Silvena,	solvothermal synthesis					
Shamima	of $CuSbS_2$					
Hussain, M. C.	nanoparticles as p-type					
Santhosh Kumar	absorber material					
& A. Leo Rajesh						
Davilso Mohaah	An investigation on the	AIP	1942	080049	2018	
Devika Mahesh, and M. C.	In doping of ZnO thin	Conference	12.2	000017	2010	

Santhosh Kumar	films by spray	Proceedings				
Saheer Cheemadan, M.C. Santhosh Kumar	pyrolysis Effect of Substrate Temperature and Oxygen Partial Pressure on RF Sputtered NiO thin films	Materials Research Express	5	046401	2018	1.8
Sebin Devasia, EI. Anila, M.C. Santhosh Kumar	Post-deposition thermal treatment of sprayed ZnO:Al thin films for enhancing the conductivity	Physica B: Condensed Matter	533	83–89	2018	2.8
S Thiruvenkadam, S Prabhakaran, Sujay Chakravarty, V Ganesan, Vasant Sathe, MC Santhosh Kumar, A Leo Rajesh	Effect of Zn/Sn molar ratio on the microstructural and optical properties of Cu 2 Zn 1-x Snx S 4 thin films prepared by spray pyrolysis technique	Physica B: Condensed Matter	533	22–27	2018	2.8
S.P. Sivapirakasam, Sreejith Mohan, Ashley Thomas Paul, M.C. Santhosh Kumar, M. Surianarayanan	Control of exposure to hexavalent chromium concentration in shielded metal arc welding fumes by nano-coating of electrodes	International Journal of Occupational and Environmental Health	23	128-142	2017	1.195
Genifer Silvena Bincy John, R. Anne Sarah Christinal, M. C. Santhosh Kumar, Sujay Chakravarty, A. Leo Rajesh	Solution Processed p- Type Cu ₂ ZnSnS ₄ Thin Films for Absorber Layer	J Inorg Organomet Polym	27	1556	2017	3.9
R. Amiruddin, M.C. Santhosh Kumar	High-speed photoresponse properties of ultraviolet (UV) photodiodes using vertically aligned Al:ZnO nanowires	Phys. Status Solidi A	214	1600658		1.9
Edwin Jose, M.C. Santhosh Kumar	Room temperature deposition of highly crystalline Cu-Zn-S thin films for solar cell applications using SILAR method	Journal of Alloys and Compounds	712	649-656	2017	5.8
T. srinivasa Reddy; M.C. Santhosh Kumar, S. Shaji	Deposition rate dependant formation and properties of Sn ₂ S ₃ and SnS thin films by co-evaporation	Mater. Res. Express	4	046404	2017	1.8
S.P.	Modeling of Fume	Metallurgical			2017	1.834

	1	1	,	1		
Sivapirakasam,	Formation from	and Materials				
Sreejith Mohan,	Shielded Metal Arc	Transactions				
M.C. Santhosh	Welding Process	В				
Kumar, M.						
Surianarayanan						
T. Srinivasa	Effect of annealing on	AIP	1832	080043	2017	
Reddy, B.	the optical properties	Conference				
Hemanth Kumar	and photoconductivity	Proceedings				
and M. C.	of SnS thin film					
Santhosh Kumar						
R. Amiruddin,	Role of oxygen	Nanoscience	9	488–494	2017	2.917
M.C. Santhosh	interstitial defects in	and				
Kumar	fabrication of UV	Nanotechnolo				
	photodiodes using	gy letters				
	vertically aligned					
	(Al,Ga):ZnO					
	nanowires	D1 G		1.50000.5	2015	
R. Reshmi	Effect of Nb doping on	Phys. Status	14	1600095	2017	
Krishnan,	the structural,	Solidi C				
Radhakrishna	morphological, optical					
Prabhu, M. C.	and electrical					
Santhosh Kumar,	properties of RF					
C. Sudarsanakumar	magnetron sputtered					
and V.	In ₂ O ₃ nanostructured films,					
P.Mahadevan	iiiiis,					
Pillai,						
T. Srinivasa	Co-evaporated SnS	RSC Adv	6	95680	2016	3.9
Reddy, M.C.	thin films for visible	KSC Auv	0	93080	2010	3.9
Santhosh Kumar	light photodetector					
Santhosh Ramar	applications					
R. Amiruddin,	Role of p-NiO electron	Current	16	1052-	2016	2.4
M.C. Santhosh	blocking layers in	Applied		1061	2010	
Kumar,	fabrication of (P-	Physics		1001		
,	N):ZnO/Al:ZnO UV					
	photodiodes					
Edwin Jose and	Room-temperature	Proc. of SPIE	9929	992917	2016	
M.C. Santhosh	wide-range					
Kumar	luminescence and					
	structural, optical, and					
	electrical properties of					
	SILAR deposited Cu-					
	Zn-S nanostructured					
	thin films					
Sn_2S_3 thin films,	Effect of substrate	Ceramics	42	12262-	2016	5.1
T. Srinivasa	temperature on the	International		12269		
Reddy, M.C.	physical properties of					
Santhosh Kumar,	co- evaporated			00000=	2011	
Saheer	Highly transparent	J.	10(3)	033007	2016	1.1
Cheemadan, R.	conducting CdO thin	Nanophoton.				
Amiruddin, M.C.	films by R.F.					
Santhosh Kumar	Magnetron sputtering					
	for Optoelectronic					
0.0.0.1.4	applications	P 1	70	205 224	2015	2.0
C.S. Sujith	Effect of surfactant	Experimental	70	325-334	2016	2.8
Kumar, S. Suresh,	addition on	Thermal and			1	

	T	I	1	Г	1	
A.S. Praveen,	hydrophilicity of ZnO-	Fluid Science				
M.C. Santhosh	Al ₂ O ₃ composite and					
Kumar, Vishakh	enhancement of flow					
Gopi,	boiling heat transfer					
Saheer	Realization of highly	Proceedings of	9558	955816	2015	
Cheemadan, R.	transparent conducting	SPIE				
Amiruddin, M.C.	CdO thin films by					
Santhosh Kumar	R.F.Magnetron					
	sputtering for					
	Optoelectronic					
	applications					
Sreejith Mohan,	Welding Fume	Journal of	108	131-144	2015	9.7
S.P.	Reduction by Nano-	Cleaner				
Sivapirakasam,	Alumina Coating on	Production				
M.C. Santhosh	Electrodes –Towards					
Kumar, M.	Green Welding					
Surianarayanan,,	Process					
R. Swapna, K.	Heat Treatment Impact	Procedia	10	714 –	2015	
Venkateswaralau,	on the Properties of Na	Materials		722		
M. C. Santhosh	and N Dual Doped	Science		, 22		
Kumar,	ZnO Thin Flms by	Science				
Trainer,	Spray Pyrolysis,					
R. Swapna, T.	Effect of Post-	Procedia	10	723 –	2015	
Srinivasa Reddy,	Annealing on the		10	729,	2013	
K.	Properties of Eu	Materials		125,		
Venkateswaralau,	Doped ZnO Nano Thin	Science				
M. C. Santhosh	Films	Science				
Kumar,	Timis					
ixumu,						
	Denosition and	Solar Energy	1/13	128 134	2015	6.3
T. Srinivasa	Deposition and	Solar Energy	143	128–134	2015	6.3
T. Srinivasa Reddy, R.	Characterization of	Materials and	143	128–134	2015	6.3
T. Srinivasa Reddy, R. Amiruddin, M.C.	Characterization of Cu ₂ SnS ₃ Thin Films by		143	128–134	2015	6.3
T. Srinivasa Reddy, R.	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for	Materials and	143	128–134	2015	6.3
T. Srinivasa Reddy, R. Amiruddin, M.C.	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic	Materials and	143	128–134	2015	6.3
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application	Materials and solar cells				
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and	Materials and solar cells Mater. Res.	143	128–134 075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of	Materials and solar cells				
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light	Materials and solar cells Mater. Res.				
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO	Materials and solar cells Mater. Res.				
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires	Materials and solar cells Mater. Res. Express			2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of	Materials and solar cells Mater. Res. Express				
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P.	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the	Materials and solar cells Mater. Res. Express Journal of Materials:			2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of	Materials and solar cells Mater. Res. Express Journal of Materials: Design and			2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for	Materials and solar cells Mater. Res. Express Journal of Materials:			2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M.	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived	Materials and solar cells Mater. Res. Express Journal of Materials: Design and			2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of			2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P.	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M.	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on electrodes	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing	2	075004	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan R. Amiruddin,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on electrodes	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing Technology Semiconducto	2 219	075004 237–247,	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan R. Amiruddin, Sebin Devasia,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on electrodes Investigation on PN dual acceptor doped p-	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing Technology Semiconductor Science and	2 219	075004 237–247,	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan R. Amiruddin, Sebin Devasia, K.Mohammedali,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on electrodes Investigation on PN dual acceptor doped p- type ZnO thin films	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing Technology Semiconducto	2 219	075004 237–247,	2015	1.8
T. Srinivasa Reddy, R. Amiruddin, M.C. Santhosh Kumar R. Amiruddin, M.C. Santhosh Kumar, Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan Sreejith Mohan, S.P. Sivapirakasam, M.C. Santhosh Kumar, M. Surianarayanan R. Amiruddin, Sebin Devasia,	Characterization of Cu ₂ SnS ₃ Thin Films by Co-evapoartion for photovoltaic application Growth and characterization of near white light emitting Al-Ga:ZnO nanowires Application of Taguchi Method in the Optimization of Process Parameter for Sol - Gel Derived Nano Alumina Film Welding fumes reduction by coating of nano-TiO ₂ on electrodes Investigation on PN dual acceptor doped p-	Materials and solar cells Mater. Res. Express Journal of Materials: Design and Applications Journal of Materials Processing Technology Semiconductor Science and	2 219	075004 237–247,	2015	1.8

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T. Prasada Rao,	Optical Properties of	IEEE xplore,			2014	
S.Gokul Raj, M.	Samarium Doped ZnO	2nd				
C. Santhosh	Thin Films	International				
Kumar		Conference				
		onDevices,				
		Circuits and				
		Systems				
		(ICDCS)				
T.Prasada Rao, S.	Effect of Annealing	Procedia	6	1631 –	2014	
Gokul Raj, M. C.	Atmosphere on	Materials		1638		
Santhosh Kumar	Structural and Optical	Science		1030		
Santhosh Rumar	Properties of	Belefice				
	Nd:ZnO Thin Films					
C.S. Sujith	Flow boiling heat	Applied	334	102–109	2015	6.3
Kumar, S. Suresh	transfer enhancement	Surface	334	102-109	2013	0.3
C.R, Aneesh,		Science				
	on copper surface	Science				
M.C.Santhosh	using Fe doped					
Kumar, A.S.	Al ₂ O ₃ TiO ₂					
Praveen, K. Raji	composite coatings					
D Amimodalin	Enhanced visible	Journal of	155	140	2014	3.3
R. Amiruddin, M. C. Santhosh	emission from		155	149–	2014	3.3
		Luminescence				
Kumar	vertically aligned ZnO			155		
	nanostructures					
D. A'. 11'. M	Fritz in Consults of	Ceramics	40	11202	2014	5 1
R. Amiruddin, M.	Epitaxial Growth of		40	11283-	2014	5.1
C. Santhosh	Vertically Aligned	International		11290		
Kumar	Highly Conducting					
	ZnO Nanowiresby					
	Modified Aqueous					
D 4 ' 11'	Chemical Growth	*		71.76	2014	
R. Amiruddin,	Fabrication of	J.	4	51-56	2014	
Akshay Srinivas,	Hyddrophobic ZnO	Environ				
C. S. Sujith	Surfaces on SS304	Nanotechnol.				
Kumar, M. C.	Substrates					
Santhosh Kumar						
S. Cheemadan, K.	Analysis of Structural	J. Environ	2	28-33	2014	
Keerthana, M. C.	and Electrical	Nanotechnol.				
Santhosh Kumar	Properties of					
	Aluminium Doped					
	Lead					
	Sulphide (PbS) Thin					
	Films Prepared by					
	CBD Method.					
R. Swapna, R.	Dual Acceptor Doping	AIP	1576	167-170	2014	
Amiruddin, M. C.	and Aging Effect of	Conference				1
Santhosh Kumar	pZnO:(Na, N)	Proceedings				1
	Nanorod Thin Films					
	by Spray Pyrolysis					
R. Swapna, M. C.	Fabrication and	Materials	49	44–49	2014	5.3
Santhosh Kumar	Characterization of	Research				
	nZnO:	Bulletin				
	Eu/pZnO:(Ag,N)					
	homojunction by					
	spray pyrolysis					
R. Swapna, M. C.	Deposition of NaN	Materials	178	1032-	2013	3.9

	T	T	1		1	Т
Santhosh	dual acceptor doped p-	Science and	1	1039		
Kumar	type ZnO thin films	Engineering B	1	1		
	and fabrication of					
	pZnO:(Na,N)/nZnO:					
	Eu homojunction					
R. Swapna, R.	Aging and annealing	AIP Conf.	1512	682-683	2013	
			1312	062-063	2013	
Amiruddin, and	effects on properties of	Proc.				
M. C. Santhosh	Ag-N dualacceptor					
Kumar	doped ZnO thin films					
R. Swapna, M.	Microstructural,	Journal of	102	68–	2013	5.8
Ashok, G.	electrical and optical	Analytical and		75		
Muralidharan, M.	properties of ZnO:Mo	Applied				
C. Santhosh	thin films with	Pyrolysis				
		1 91019818				
Kumar	various thickness by					
	spray pyrolysis					
R. Swapna,	Growth and	Journal of	74	418–425	2013	2.207
M.C. Santhosh	characterization of	Physics and				
Kumar	molybdenum doped	Chemistry of				
	ZnO thin films by	Solids				
	spray pyrolysis					
R. Swapna, M.C.	Deposition of the low	Ceramics	39	1799–	2013	3.057
Santhosh Kumar	1 1	International	39	1806	2013	3.037
Santhosh Kumar	resistive AgN	International		1800		
	dual acceptor doped p-					
	type ZnO thin films					
T Prasada Rao, M	Effects of thickness	Journal of	541	495-504	2012	5.8
C Santhosh	and atmospheric	Alloys and				
Kumar, N. Sooraj	annealing on	Compounds				
Hussain	structural, electrical	Compounds				
Tussum	and optical properties					
	of GZO thin films by					
	spray pyrolysis				 	
	Resistivity Stability of	Journal of	2	72-79	2012	0.82
T. Prasada Rao,	Ga Doped ZnO Thin	Crystallization				
M. C. Santhosh	Films with Heat	Process and				
Kumar	Treatment in Air	Technology				
	and Oxygen					
	Atmospheres					
D. Cyyonna M.C.		Ceramics	38	2075	2012	5.1
R. Swapna, M.C.	The role of substrate		30	3875-	2012	J.1
Santhosh Kumar	temperature on the	International		3883		
	properties of			1		
	nanocrystalline Mo					
	doped ZnO thin films					
	by spray pyrolysis					
T. Prasada Rao	Effect of annealing on	Indian J. Phys	85	1381-	2011	1.6
and M. C.	the structural, optical			1391		
Santhosh Kumar	and electrical			1371		
Sandiosh Kullal						
	properties of ZnO			1		
	thin films by spray					
	pyrolysis		ļ	1		
T. Prasada Rao	Realization of stable p-	Journal of	509	8676–	2011	5.8
and M. C.	type ZnO thin films	Alloys and		8682		
Santhosh Kumar	using Li–N dual	Compounds		1		
	acceptors	r				
M.C. Santhosh	Band gap variation in	Indian Journal	85	401-409	2011	1.6
Kumar, B.		of Physics	33	701-402	2011	1.0
Kuillai, D.	co-evaporated	OI FIIYSICS	I	1	1	1

Pradeep	AgInSe2 thin films					
	with 1.26 MeV He+ ion irradiation					
M.C. Santhosh Kuamar, B. Pradeep	Optical constants of co-evaporated Ag ₂ Se thin films with proton irradiation	Journal of Ovonic Research	6	143-148	2010	0.9
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	5.8
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	2.207
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	5.8
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	1.453
S. Bagavathiappan, Y. Siva Sankar, M.C. S. Kumar, John Philip, T. Jayakumar and Baldev Raj	Active infrared thermal imaging for quantitative analysis of defects and delaminations in composite materials	Journal of Non Destructive Testing & Evaluation	8	28-36	2009	
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	2.207
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	5.8
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	6.3
T. Prasada Rao,	Highly Oriented (1 0	Applied	255	7212-	2009	6.3

M.C. Santhosh Kumar	0) ZnO thin films by spray pyrolysis	Surface Science		7215		
T. Prasada Rao, M.C. Santhosh Kumar	Thickness effect on structural, optical and electrical properties of ZnO thin films by Spray Pyrolysis	Applied Surface Science	255	4579– 4584	2009	6.3
M.C. Santhosh Kumar and B. Pradeep	Formation and properties of silver indium selenide thin films by coevaporation	Vacuum	72	369 – 378	2004	3.8
M.C. Santhosh Kumar and B. Pradeep	Photoelectrical properties of Silver Indium Selenide Thin Films	Journal of Materials Science Letters	22	287-291	2003	0.68
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	1.9
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	2.7
M.C. Santhosh Kumar and B. Pradeep	Structural electrical and optical properties of silver selenide thin films	Semicond. Sci. Technol.	17	261-265	2002	1.9

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Devika Mahesh, John Paul and M. C. Santhosh Kumar	Photocatalytic degradation of Methylene Blue by ZnO seed layers and 1 D nanorods			International Conference on Novel engineering materials for Biomedical, Energy and Environmental Sensing and other application (ICON BEES 2021)	NIT Tiruchirappalli	2021
Neju Mathew Philip and M. C. Santhosh Kumar	Structural and Morphological characterization of MoS ₂ thin films using chemical bath deposition			International Conference on Novel engineering materials for Biomedical, Energy and Environmental	NIT Tiruchirappalli	2021

		Sensing and		
		other application		
		(ICON BEES		
		2021)		
P. Aabel, A	Fabrication of	3rd International	School of	2019
Anupama and M	Al:ZnO/CZTS	Conference on	Electrical	
C Santhosh	heterojunction solar	Solar Energy	Engineering, KIIT	
Kumar	by vacuum spray	Photovoltaics	(Deemed to be	
	pyrolysis	(ICSEP-2019)	University),	
			Bhubaneswar,	
D.H. d	C 1 . C	T	Odisha	2010
B. Hemanth Kumar and M.C.	Comparative study of Cu-rich and Sb-rich	International	Alagappa	2019
Santhosh Kumar	of CuSbS2 thin films	Conference on Advanced	University	
Santhosh Kumai	of Cusus2 unit fillis	Materials for		
		Sustainable		
		Energy and		
		Sensors		
		(INCAMSES-		
		2019)		
Devika Mahesh,	Improved	International	Alagappa	2019
John Paul, M. C.	photocatalysis	Conference on	University	
Santhosh Kumar	exhibited by 1 d	Advanced		
	nanorods grown on	Materials for		
	zinc oxide thin films	Sustainable		
	under UV light	Energy and		
		Sensors		
		(INCAMSES-		
		2019)		
John Paul, P. Sasi	Degradation of	International	Alagappa	2019
Kumar and M.C.	Methylene Blue Dye	Conference on	University	
Santhosh Kumar	by RF Sputtered Ti1-	Advanced		
	xZnxO Thin FILMS	Materials for		
	under UV Irradiation	Sustainable		
		Energy and		
		Sensors		
		(INCAMSES- 2019)		
B. Hemanth	Surface Modification	International	NIT	2019
Kumar and M.C.	of Indium doped	Conference on	Tiruchirappalli	2019
Santhosh Kumar	Zinc Oxide thin films	Recent advances	Тиченнаррані	
Summosii Rumai	Zine Oxide timi iimis	in Materials		
		Science		
Devika Mahesh,	Surface Modification	International	NIT	2019
and M.C.	of Indium doped	Conference on	Tiruchirappalli	
Santhosh Kumar	Zinc Oxide thin films	Recent advances	r r	
		in Materials		
		Science		
Saheer	Biocidal Properties	5 th International	SRM University,	2019
chemadan,	of CdO:ZnO Multi-	conference on	Chennai	
Muthukumar	component Thin	Nanoscience and		
Krishnan, Arthur	Films	Nanotechnology		
James Rathinam,				
M.C. Santhosh				
Kumar				

B. Hemanth Kumar, M.C. Santhosh Kumar Antimony Sulfide Thin Films for Photovoltaic Applications Aabel Premnath, M.C. Santhosh Kumar An investigation on n-ZnO/p-CuZnS heterojunctions for thin film solar cell applications T. Srinivasa Reddy, M.C. Santhosh Kumar Sai Guru Srinivasan S, Govardhanan B, Ashok M, Santhosh Kumar Santhosh Kumar Sch International conference on Nanoscience and Nanotechnology Sth International conference on Nanoscience and Nanotechnology Sth International conference on Nanoscience and Nanoscience and Nanoscience and Nanoscience and Nanotechnology Sth International conference on Nanoscience and Nanotechnology Sth International Nanotechnology Sth International Conference on Nanoscience and Nanotechnology Sth International Nanotechnology Chennai SRM University, Conference on Nanoscience and Nanotechnology Chennai Nanotechnology Sth International Nanotechnology Chennai SRM University, Conference on Nanoscience and Nanotechnology Chennai
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S. Aarthi, Sruthy	Realization of	National	NIT	2017
Poulose, R.	superhydrophobic	Conference on	Tiruchirappalli	
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Devika, R.	cleaning applications	Materials:		
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	structured thin films			
R. Amiruddin	Performance	8 th International	Singapore	2016
and M.C.	investigation of ZnO	conference on		
Santhosh Kumar	based p-i-n UV	Technological		
	Photodiode using	Advancement of		
	vertically aligned	Thin Films &		
	(Al, Ga):ZnO	Surface Coatings		
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R. Amiruddin	Facile synthesis of	4 th International	Cochin	2016
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	Nanowires with	Nanoscience and		
	visible luminescence	Technology,		
	characteristics	nano-2016		
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	Radiographic Images	Non-Destructive		
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	Neural Network	NDE-2015	xx 1 1 1	2017
Sandeep Kumar,	Automatic Detection	National seminar	Hyderabad	2015
M.C Santhosh	of Defects And	and International		
Kumar	Pattern Recognition	exhibition on		
	In TOFD	Non-Destructive		
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0.1	Thin Weldment,	NDE-2015	C 1'	2017
Saheer	Realization of highly	SPIE	Sandiago,	2015
Chemadan, R.	transparent	NanoScience +	California, USA	
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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
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Nithin P.V., Krishnan	Flying Spot Laser	National seminar and International		2013
Balasubramanian,	Thermography for the Detection of	exhibition on		
Prabhu Rajagopal	Surface Breaking	Non-Destructive		
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R. Ameeruddin,	Growth of Vertically	International	Sastra Uinveristy,	2013
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Tulliul	Emitting Diodes	applications		
	(LED's) Applications	(ICTFA)		
R. Amiruddin,	Fabrication of	National	. Sri Ramakrishna	2013
Akshay Srinivas,	Hydrophobic ZnO	Conference on	Mission	
M. C. Santhosh	Surfaces on SS304	Advanced	Vidyalaya College	
Kumar	Substrates	Materials for	of Arts and	
		Emerging	Sciences,	
		Technologies	Coimbatore	
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Saheer	Analysis of	National	. Sri Ramakrishna	
Cheemadan, K.	Structural and	Conference on	Mission	
Keerthana and	Electrical Properties	Advanced	Vidyalaya College	
M.C. Santhosh	of Aluminium doped	Materials for	of Arts and	
Kumar	lead sulphide	Emerging	Sciences,	
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Amiruddin, M. C.	Effects on Properties	State Physics	Mumbai, India	2012
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Summosii Tumui	Acceptor Doped ZnO	Бутроват		
	Thin Films			
R. Swapna, M. C.	Ag-N dual Acceptor	1 st International	The University of	2012
Santhosh Kumar	Doping and	conference on	Queensland,	
	Fabrication of n-	Emerging	Brisbane,	
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	spray pyrolysis	(ICEAN 2012)		
R. Swapna, M. C.	Fabrication of the	International	University of	2012
Santhosh Kumar	low Resistive Ag-N	Conference &	Delhi, Delhi,	
	doped	Workshop on		
	Nanocrystalline p-	nanostructured		
	type ZnO Thin films	Ceramics &		
		other		
		Nanomaterials		
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	MZO thin films by	Advanced	Coimbatore	

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Nasiha, M.C.	Cobalt doped CeO2	conference on	Kochi,	
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Santhosh Kumar,	inspection using	2009),		
C. Babu rao and	artificial neural			
T. Jayakumar,	network			
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		Publishers	Publication	Number
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