



JSS Mahavidyapeetha

JSS Academy of Technical Education

Dr. Vishnuvardhan Road, Srinivasapura post Bangalore 560060


www. Jssateb.ac.in



FACULTY PROFILE

Department: Engineering Physics

1. Personal Details

NAME	Dr. R.SHASHIDHAR	
DEPARTMENT	Engineering Physics	
DESIGNATION	Associate Professor	
PHONE	+91 98444 65346	
EMAIL ID	shashidhar@jssateb.ac.in	
Date of Joining (JSSATEB)	26-11-1997	

2. Experience

Total Experience in Years	Teaching: 25 Years	Industry: Nil	Research: 01 year
---------------------------	--------------------	---------------	-------------------

3. Qualifications

COURSES	SPECIALIZATION	Year of Award	INSTITUTION	UNIVERSITY
B.Sc	Physics, Maths, Electronics	1993	SSFGC, Tumkur	Bangalore University, Karnataka INDIA
M.Sc.,	Physics (specialization::Electronics)	1996	Jnanabharathi, Department of Physics, Jnanabharathi,	Bangalore University, Karnataka INDIA
Ph.D.	Condensed Matter Physics	2015	Jnanabharathi, Department of Physics, Jnanabharathi	Bangalore University, Karnataka INDIA

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 09	National: 00
Papers Published in SCOPUS indexed Journals	International: 09	National: 01
Papers Published in other Journals	International: 03	National: 04
Papers Presented in Conferences / Symposium	International:-13	National: 04
Books / Book chapters Published	Name of the book: Publisher: Year of Publication:	

5. Research Guidance

PhD Guide? Give field & University	Yes, Condensed Matter Physics	University: a. Visvesvaraya Technological University:
PhDs / Projects Guided	Ph.D Awarded: Nil Guiding :04 (four)	Projects at Master's Level: Nil Projects at Bachelor's Level: Nil

6. Grants

i. **Funds Received (Projects)** : I-STEM committee has recommended to support the research work with the catalytic grant up to 1.1 lakh for our project entitled :influence of thickness and temperature on solution processed SnO₂ based solar cells and sensors". This proposal was jointly submitted by myself (supervisor), Dr. Nityanand Choudhary (co-supervisor) and Mr. Anand B C (research scholar) to the I-STEM, center for Nano Science and Engineering (CeNSE), Indian Institute of Science (IISc), Bangalore, under "reverse funding".

ii. **Patents: Nil**

iii. **Consultancy: Nil**

7. Awards Received

1	Received best award for the paper entitled " Influence of various alcoholic solvents on structural, morphological and compositional properties of sprayed TiO ₂ films" in International Journal of Physics and Research (IJPR) Transstellar Journal Publications Research Consultancy (TJPRC) Pvt. Ltd. on June 2013
---	---

8. Publications

i. International Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Influence of thickness and illumination on Electrical Properties of MOS capacitor of spray pyrolysed mixed phase CdTe ₂ O ₅ - CdTeO ₃ - CdTe film	R.Shashidhar & Nityanand Choudhary	Emergent Materials	1-9, 2021	Both	-	Springer Nature
2	Cost effective SnS heterojunction solar cells synthesized by spray pyrolysis	R.Shashidhar & Nityanand Choudhary	Journal Sol-Gel Science & Technology	96,1,2020	Both	2.005	Springer
3	Thickness dependent studies of hetero-junction solar cell synthesized on quartz substrate by spray pyrolysis technique	R.Shashidhar & Nityanand Choudhary	Indian Journal of Pure and applied Physics	58, 2020	Both	0.653	NISCAIR-CSIR, India
4	Luminescence of bio-synthesized rod like Bismuth Oxychloride nanoparticles	Nityanand Choudhary & R.Shashidhar	Advances in Natural Sciences: Nano Science & Nano Technology	10,3,2019	Both	1.3	Vietnam Academy of Science and Technology (VAST) (VN) and IOP (UK)
5	Optical properties of (TiO ₂) _{1-x} (Al ₂ O ₃) _x Pseudo binary oxides thin films	H.D.Chandrashekhar, Basavaraj Angadi, R.Shashidhar, L.C.S.Murthy &	Materials Today Proceedings	3,6,2016	Both	0.694	ELSEVIER

	prepared by spray Pyrolysis7technique	Poornima P					
6	Nano porous Al ₂ O ₃ -TiO ₂ thin film based humidity sensor prepared by spray pyrolysis technique	H.D.Chandrashekhar, Basavaraj Angadi, Y T Ravikiran, Poornima P, R.Shashidhar & L.C.S.Murthy	AIP Conference Proceedings	1728,1,2016	Both	1.444	AIP
7	Isochronal Effect of Optical Studies of TiO ₂ Thin Films Deposited by Spray Pyrolysis Technique	H.D.Chandrashekhar, Basavaraj Angadi, R.Shashidhar, L.C.S.Murthy & P.Poornima.	Journal of Advanced Science Letters	22,4,2016	Both	0.42	American Scientific Publishers
8	Raman spectral studies of spray deposited CuO thin films	Shashidhar R, Angadi Basavaraj, Chandra shekhar H D and Murthy L C S	Journal of Advanced Science Letters	22,2,2016	Both	0.42	American Scientific Publishers
9	Influence of spray deposited TiO ₂ film thickness on the performance of Au/n-TiO ₂ /pSi/Al low cost hetero-junction solar cell and its utility as a carrier blocking layer	Shashidhar, R., Angadi, B, Chandra Shekar, H.D, Murthy, L.C.S	Solid State Physics AIP Conf. Proc	1665,2015	Both	2.857	AIP
10	Effect of ethanol concentration on the porosity of TiO ₂ films prepared by spray pyrolysis and their utility as humidity sensor	Shashidhar, R, Angadi, Basavaraj, ChandraShekar, HD, Murthy, LCS and Rao, KSRK	IEEE XPLORE	2015	Scopus	5.629	IEEE
11	Effect of isothermal annealing on properties of TiO ₂ thin films towards MOS capacitor applications	H.D.Chandra shekhar, Basavaraja angadi, R. Shashidhar, and L.C.S.Murthy	International Journal of Engineering Science and Technology (IJEST) UK	6,4,2014	others	-	Multicraft
12	Influence of various alcoholic solvents on structural, morphological and compositional properties of sprayed TiO ₂ films	R. Shashidhar and L.C.S.Murthy	International Journal of Physics and Research (IJPR)	3,2,2013	others	-	Transstellar Journal Publications and Research Consultancy Private Limited (TJPRC PVT. LTD.)
13	Influence of thickness and air annealing on structural, morphological, compositional,	R. Shashidhar and L.C.S.Murthy	International Journal of Engineering Science and Technology (IJEST)	5,4,2013	others	-	SJIF

	electrical properties of sprayed TiO ₂ thin films						
--	--	--	--	--	--	--	--

ii. National Journals

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus / Both	Impact Factor	Publisher
1	Effect of thickness on Electrical properties of anatase TiO ₂ thin films by Spray Pyrolysis technique	Poornima.P H D Chandrashekar, Basavaraj Angadi, LCS Murthy, Shashidhar R	Journal of Electrochemical Society of India	65,3-4,2016	others	-	IISc., Bangalore
2	Preparation of characterization of spray deposited CdTe thin films towards fabrication of low cost hetero-junction solar cells	Poornima.P Shashidhar R, H D Chandrashekar, Basavaraj Angadi, L C S Murthy	Journal of Electrochemical Society of India	65,3-4,2016	others	-	IISc., Bangalore

iii. Conferences

Sl. No.	Title of the paper	Name(s) of Author(s)	Name of the Journal	Volume No. Issue No. Year	WOS / Scopus	Impact Factor	Publisher
1	Effect of temperature on electrical studies of MOS (Al/Al ₂ O ₃ /Si) device	Poornima.P Angadi,B. Chandrashekar,H.D. Murthy, L.C.S. Shashidhar R	Recent Advances in Nanoscience & Nanotechnology Proceedings	2016	others	-	Sathyabama University, Chennai
2	Preparation and characterization of spray deposited CuO thin films towards fabrication of low cost hetero-junction solar cells	R. Shashidhar, Basavaraj Angadi, H.D.Chandra Shekar, & L.C.S.Murthy	Advances in Applied Physical and Chemical Sciences-A Sustainable Approach	2014	others	-	First Impression, Excellent publishing house, New Delhi – 110070, India,

iv. Workshops / Conferences Attended

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	Two Day Online International Conference on "Advanced Materials Science and Applications" (ICAMSA-2020)	Department of Physics, MSRIT, Bangalore, Karnataka, India	3 rd to 4 th September 2020
2	National Conference Advanced Lithium Ion Batteries: Science and Technology (NALIBST-2019)	Indian Institute of Science, Bangalore ,	27-28 December 2019
3	Second international conference on Current applications in material science	SJB Institute of Technology, Bangalore	4 th May 2019
4	International Conference on Nanotechnology (NANOCON 2018)	Bharati Vidhyapeeth, Pune	25 th to 26 th October 2018
5	International conference on surface	Electrochemical Society of	9 th to 11 th August 2018

	engineering (INCOSURF-2018)	India (ECSI and Department of Inorganic and Physical Chemistry, IISc., Bangalore	
6	Recent advances in Nano science and Nano technology	Government Science College Hassan	26 th February 2016
7	International Conference on Condense Matter and Applied Physics (ICC-2015)	Govt. Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner-334004, (Rajasthan) INDIA	30 th to 31 st October 2015
8	Recent Advances In Nano-Science And Technology (RAINSAT-2015)	Sathyabama University, Chennai	8 th to 10 th July 2015
9	2 nd international symposium on physics and technology of sensors (ISPTS-2)	YASHADA Auditorium, Rajbhavan complex, Baner road near Savitribai Phule Pune University, Sakal Nagar, Aundh, Pune-411007, India.	8 th to 10 th March 2015
10	International Conference on Large Area & Flexible Microelectronics, (ILAFM-2014)	RV Engg College Bangalore, India	18 th to 20 th December 2014
11	59 th Department of Atomic Energy Solid State Physics Symposium (DAE-SSPS)	VIT University, Vellore, Tamilnadu, India	16 th to 20 th December 2014
12	International Conference on Nanotechnology (NANOCON-2014)	Bharati Vidyapeeth University, Pune, India	14 th to 15 th October 2014
13	International Conference on Electrochemical Science and Technology (ICONEST-2014)	IISc., Bangalore, India	7 th to 8 th August 2014
14	International Conference on Nano Science & Engineering Application (ICONSEA- 2014)	Hyderabad, Andhra Pradesh, INDIA	26 th to 28 th June 2014
15	Recent trends in thin film technology	Walchand Hirachand College of Arts & Science, Walchand Hirachand Marg, Ashok Chowk, Solpur	14 th to 15 th November 2008
16	National symposium on instrumentation-31	Indian Institute of Science, Bangalore and Institute of Technology Management, Gwalior	10 th to 15 th October 2006

v. Workshops / Conference (Organised): Nil

vi. Conference Attended (those sponsored by AICTE / ISTE / IETE / TEQIP or any other sponsoring body)

Sl. No.	Name of the workshop / Conference	Organiser	Date
1	Frontiers in Material Research for Energy Application	Thyagarajar College of Engineering, Madurai	11 th to 17 th December 2017
2	Short term training programme on electrochemical energy conversion and storage	AICTE-ISTE at Dr. AIT Bangalore	23 rd to 27 th August 2004

9. Details of NPTEL / COURSERA courses completed

Sl. No.	Name of the subject	Organised by	Date of completion / Award	Grade / Marks
1	Solid State Physics	NPTEL	28.09.2021	53 %
2	Semiconductor Physics	Coursera	28.05.2020	88.8%
3	Selection Of Nano materials For Energy Harvesting And Storage Application	NPTEL	28.09.2019	71.0%

10. Membership of Professional Bodies:

1. BOE, VTU, Belgavi(2022)
2. BOE, Bangalore University, Bangalore (2022)
3. BOE, BNMIT, Bangalore (2022)
4. BOE, MSRIT, Bangalore (2022)
5. BOE, GAT, Bangalore (2021)
6. BOE, Dr. AIT, Bangalore (2015)
7. Life member (LM 41963) of the Indian Society for Technical Education (ISTE) (2015)
8. BOE, BMSCE, Bangalore (2012)
9. Life member (LM 232) of the Electrochemical Society of India, Indian Institute of Science, Bangalore-560012 (2004)

11. Any other information you will like to share about your professional experience

Dr.R.Shashidhar
Associate Professor of Physics
JSS Academy of Technical Education
Bangalore 560060