

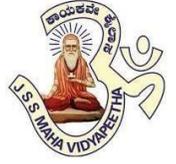


JSS Mahavidyapeetha

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 & Head	
PHONE	+91 98444 65346	
EMAIL ID	shashidharr@jssateb.ac.in	
Date of Joining (JSSATEB)	26-11-1997	

2. Experience

Total Experience in Years	Teaching: 29 Years	Industry: Nil	Research: 01 year
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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, Bangalore.	Bangalore University, Karnataka INDIA
Ph.D.	Condensed Matter Physics	2015	Jnanabharathi, Department of Physics, Bangalore.	Bangalore University, Karnataka INDIA

4. Research & Publications

Papers Published in Web of Science indexed Journals	International: 25	National: 00
Papers Published in SCOPUS indexed Journals	International: 14	National: 01
Papers Published in other Journals	International: 03	National: 01
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: 02 Guiding :02 (Two)	Projects at Master's Level: Nil Projects at Bachelor's Level: Nil

6. Grants

i. Funds Received (Projects):

Title of the project	Name of the investigator(s)	Funding agency	Fund granted in Rs	Sanctioned Year
Influence of thickness and temperature on solution processed SnO ₂ based solar cells and sensors	Dr. R Shashidhar, Dr. Nityanand Choudhary & Mr. Anand B C	I-STEM, center for Nano Science and Engineering (CeNSE), Indian Institute of Science (IISc), Bangalore under reverse funding	1,00,000	2022
Thickness and temperature effects on solution-processed TiO ₂ /ZnO based Dye Sensitized Solar cells"	Dr. R Shashidhar, Dr. Roopashree B & Mr. Prakasha G S		30,000	2022
Thickness and temperature effects on solution-processed Titanium Dioxide and Copper Oxide Thin Films"	Dr. R Shashidhar, & Mr. Mashukeshwara R S		30,000	2022
Fabrication and characterization of ZnO/SnS based sensors and solar cells	Dr. R Shashidhar, & Mr. Prakasha G S		30,000	2022

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
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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	Growth and characterization of oxygen annealed ZnO and Al: ZnO thin films for Enhanced Nitrogen Dioxide gas sensing prepared by RF Sputtering	Uday Balegar S., Shashidhar R , Madhukeswara R S, Raghu A	Physica Scripta	100. 11.2025	Both	2.68	IOP
2	Influence of air annealing on the characteristics of spray- deposited TiO ₂ thin films and their use as NO ₂ gas sensors	R S Madhukeswara, R. Shashidhar, A. Raghu, GS Prakasha	Journal of Sol-Gel Science and Technology	116.2025	Both	3.2	Springer
3	Influence of Thickness on Structural, Morphological, Compositional and Optical Properties of RF-Sputtered Al:ZnO Thin Films	S Uday Balegar, R Shashidhar, A Raghu	Indian Journal Of Science And Technology	18.24,2025	Both	0.16	See
4	Influence of isochronal heat treatment on spray-deposited mixed phase tin based thin films for ammonia gas sensor applications	Prakasha G S, Shashidhar R , Madhukeshwara R S	Results in surfaces and interfaces	17,36,2024	Both	4.85	Elsevier Ltd.
5.	Influence of air annealing on the microstructural, morphological,6compositio	R.S. Madhukeswara · R. Shashidhar · A. Raghu ·	Emergent Materials	7. 2024	Both	4.8	Springer

	nal, optical and electrical properties of spray deposited CuO thin films and their utility as MOM gas sensors	G. S. Prakasha					
6	Effect of post air annealing on the characteristics of spray deposited ZnO thin films and their use as MOS Ethanol gas sensor	Prakasha G S, Shashidhar R, Madhukeshwara R S	Indian Journal of Pure and applied Physics	62, 2024	Both	0.846	NISCAIR-CSIR, India
7	Annealing temperature dependent structural and optical characteristics of spray pyrolyzed ZnO thin films	S. Uday Balegar, N Srinatha, R Shashidhar, A Raghu	Materials Today Proceedings	92, 2023	WOS	2.59	Elsevier Ltd.
8	Application of SRCBD S: SnO ₂ nanostructured Thin Films as Room Temperature Gas and Humidity Sensors	Anand B C, R Shashidhar, Nityanand Choudhary	Journal of the Korean Physical Society	82, 2023	Both	0.800	Springer
9	Positive impedance and low hysteresis MoS type humidity sensors via SRCBD poly crystalline Sn _x O _y thin films	Anand B C, R Shashidhar, Nityanand Choudhary	Digest Journal of Nanomaterials and Biostructures	18,1 2023	Both	1.000	National Institute R and D of Materials Physics
10	Synthesis of Nanoparticles by Solution Combustion Method: A Review	Nityanand Choudhary & R Shashidhar	JSS Journal of Scientific Studies	1,2,2023	Others	-	J S S Academy of Technical Education
11	A. Thermodynamic model to study the ferroelectric behaviour of lactic acid derivatives with keto linkage group	Singh, A., Shashidhar R & Rastogi,	Phase Transitions	95, 10, 2022.	Both	1.400	Taylor and Francis Ltd
12	Thermodynamic Model to Study the Phase Transition Properties of Sm CA* Phase in Antiferroelectric Mesogen W-358 Series.	Singh, A., Rastogi, A., Shashidhar R & Dixit, S.	Indian Journal of Pure & Applied Physics (IJPAP),	60, 8, 2022	Both	0.846	NISCAIR-CSIR, India
13	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	4.8	Springer Nature
14	Cost effective SnS heterojunction solar cells synthesized by spray pyrolysis	R. Shashidhar & Nityanand Choudhary	Journal Sol- Gel Science & Technology	96,1,2020	Both	2.50	Springer
15	Thickness dependent studies of heterojunction solar cell synthesized on quartz substrate by spray pyrolysis technique	R. Shashidhar & Nityanand Choudhary	Indian Journal of Pure and applied Physics	58, 2020	Both	0.846	NISCAIR-CSIR, India
16	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	1.7	Vietnam Academy of Science and Technology (VAST) (VN) and IOP (UK)
17	Optical properties of (TiO ₂) _{1-x} (Al ₂ O ₃) _x Pseudo binary oxides thin films prepared by spray Pyrolysis technique	H.D.Chandrashekhar, Basavaraj Angadi, R. Shashidhar, L.C.S. Murthy & Poornima P	Materials Today Proceedings	3,6,2016	Both	2.59	ELSEVIER

18	Nano porous Al ₂ O ₃ - TiO ₂ thin film based humidity sensor prepared by spray pyrolysis technique	H.D.Chandrashekhar, Basavaraj Angadi, YT Ravikiran, Poornima P, R.Shashidhar & L.C.S.Murthy	AIP Conference Proceedings	1728,1,2016	Both	0.41	AIP
19	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	0.60	American Scientific Publishers
20	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	0.60	American Scientific Publishers
21	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	0.41	AIP
22	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, Chandra Shekar, H D, Murthy, LCS and Rao, KSRK	IEEE XPLORE	2015	Scopous	3.557	IEEE
23	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
24	Influence of various alcoholic solvents on structural, morphological and compositional properties of sprayed TiO ₂ films	R. Shashidhar and LCS.Murthy	International Journal of Physics and Research (IJPR)	3,2,2013	others	-	Transstellar Journal Publications and Research Consultancy Private Limited (TJPRC PVT. LTD.)
25	Influence of thickness and air annealing on structural,morphological, compositional, electrical properties of sprayed TiO ₂ thin films	R. Shashidhar and LCS.Murthy	International Journal of Engineering Science and Technology (IJEST)	5,4,2013	others	-	SJIF

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, LCSMurthy, 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 ShashidharR, H D Chandrashekar, Basavaraj Angadi, L CS Murthy	Journal of Electrochemical Society of India	65,3-4,2016	others	-	IISc., Bangalore
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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 engineering (INCOSURF-2018)	Electrochemical Society of India (ECSI and Department of Inorganic and Physical Chemistry, IISc., Bangalore	9 th to 11 th August 2018
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 (Orgained):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	FDP on "Sustainable Development Goals"	Department of Management Studies, JSSATE, Bengaluru	28th – 29th June 2024
2	FDP on "Applied Physics in VTU Curriculum"	Department of Basic Sciences, Cambridge Institute of Technology, Bengaluru	15th – 19th May 2023
3	Frontiers in Material Research for Energy Application	ThyagarajarCollege of Engineering,Madurai	11 th to 17 th December 2017
4	Short term training programme on electrochemical energy conversion andstorage	AICTE-ISTE at Dr. AITBangalore	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, 2024)
2. BOE, Bangalore University, Bangalore (2022)
3. BOE, BNMIT, Bangalore (2022, 2024)
4. BOE, MSRIT, Bangalore (2022)
5. BOE, GAT, Bangalore (2021, 2024)
6. BOE, Dr. AIT, Bangalore (2015, 2024)
7. BOE, BMSCE, Bangalore (2012)
8. BOE, SJBIT, Bangalore (2023)
9. Life member (LM 41963) of the Indian Society for Technical Education (ISTE) (2015)
10. 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
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JSS Academy of Technical Education
Bangalore 560060