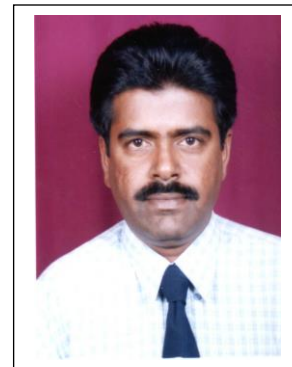


CURRICULUM VITAE



- 1. Name** : **Dr. SANJAY R. GADAKH**
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- 6. ORCID ID** : **0000-0003-1239-1515**

7. Educational Qualifications: MSc, PhD, ADCSSA

- 8. Teaching Experience:** Under graduate (UG): 34 years
Post graduate (PG) : 22 years

9. Research Experience

Total Research experience of 18 years

10. Research Projects completed

Sr. No.	Title of the Project	Principal Investigator / co-Investigator	Funding Agency	Amount	Duration	Status
1	" Synthesis of TiO ₂ Electrodes for Dye- Sensitized Solar Cells by Direct Solution Growth of Crystalline Films"	Principal Investigator	UGC, India	68,000/-	2005-07	Completed
2	Solar Light Activated Photocatalytic Reactor for Water Detoxification Using Doped TiO ₂ Thin Films Deposited by Spray Pyrolysis	co-Investigator	BCUD SPPU Pune	1,80,000	2015-2017	Completed

11. International Travel

Presented a research paper in 'Fourteenth International Conference on Photo-chemical Conversion and Storage of Solar Energy' held at Hokkaido University, Sapporo, **Japan** from 4th to 9th August 2002.

12. Research Publications

- A) Papers published in International Journals - 09. (Refer Appendix-I)
- B) Papers published in Proceedings of National Conference: 01
- C) Papers presented in National Conferences - 5.
- D) Paper presented in International Conference - 3.

13. Books / Book Chapter Published: 07 (Please refer to **Appendix-II**)

14. Membership:

- i) Member, Board of Studies in Physics of Savitribai Phule Pune University (2018-2022)
- ii) Life member of 'Materials Research Society of India', (Membership Number: LMB3741)

15. Resource Person:

- i) Delivered invited talk on 'Energy & Environment: Global Scenario' at The **National Conference** on Renewable Energy & Environment (NCREE-2018), organized by K.J. Somaiya College of Arts, Commerce & Science, Kopergaon, on 19th January 2018.
- ii) Delivered invited talk on 'Renewable and New Energy Sources for Smart Cities' at the **State Level Conference** on 'Renewable Energy & Sustainable Development', 10-11 Jan. **2019**, organized by Arts Science & Commerce College Ozar.
- iii) Delivered an invited talk on 'Metal Oxide Composites for Photocatalytic Applications' at the **National Level** Training Program on 'Machine Learning Approach using Computational DFT Methods and Advanced Material Synthesis and Applications', organized by Guru Gobind Singh Polytechnic College, Nashik on 10th January 2024.

16. Recognition: Recognized as PhD Guide by Savitribai Phule Pune University

17. Research Guidance: At present **05** Students are working for **Ph.D.**

02 students have completed **M.Phil.** degree

18. Reviewer for the following Journals

Sr No	Name of the Journal	Publisher
1	Materials Chemistry & Physics	Elsevier
2	Physica Scripta	IOP Publishing
3	Nano Hybrids and Composites	Scientific.Net
4	Journal of Physics: Energy	IOP Publishing
5	Journal of Nano Research	Scientific.Net
6	Engineering Chemistry	Scientific.Net

Appendix-I

List of Publications

A) Papers published in international journals

1. 'Effect of complexing agent on the properties of spray deposited Bi_2S_3 thin films', S.R. Gadakh, V.V. Killedar, C.D. Lokhande, C.H. Bhosale, *Materials Chemistry and Physics*, 56 (1998) 79-83.
2. 'Effect of concentration of complexing agent (tartaric acid) on spray deposited Bi_2S_3 thin films', S.R. Gadakh, C.H. Bhosale, *Materials Research Bulletin*, 35 (2000) 1097-1106.
3. 'Effect of concentration of complexing agent on the spray deposited Bi_2S_3 thin films' S.R. Gadakh, C.H. Bhosale, *Materials Chem. and Physics*, 64 (2000) 5-9.
4. 'Effect of concentration of complexing agent (EDTA) on the structural, electrical and optical properties of spray deposited As_2S_3 thin films', S.R. Gadakh, C.H. Bhosale, *Materials Research Bulletin*, 36 (2001) 1011-1016.
5. 'Effect of concentration of complexing agent (tartaric acid) on the properties of spray deposited Sb_2S_3 thin films', S.R. Gadakh, C.H. Bhosale, *Materials Chemistry and Physics* 78 (2002) 367 – 371.
6. 'Visible light assisted photoelectrocatalytic degradation of sugarcane factory wastewater by sprayed CZTS thin films' Y.M. Hunge, M.A. Mahadik, V.L. Patil, A.R. Pawar, S.R. Gadakh, A.V. Moholkar, P.S. Patil, C.H. Bhosale, *Journal of Physics and Chemistry of Solids* 111 (2017) 176–181.
7. 'Unidentified Character of Fe-Modified Graphene and Its Effect on Gas Sensing Activity', S. A. Singh, B. S. Nadekar, P. S. More, S. R. Gadakh *IJCPS Vol. 7, Special Issue, March 2018*,597-601.
8. 'Improved field electron emission behavior of ultrathin lanthanum hexaboride-coated copper oxide nanowires', Amol B. Deore, Aditya T. Jagdale, Chetan D. Mistari, Krishna Jagtap, Sandesh R. Jadkar, Mahendra A. More, Sanjay R. Gadakh, Tomoyuki Ueki, and Pankaj M. Koinkar, *International Journal of Modern Physics B Vol. 38, Nos. 12&13 (2024)* 2440016
9. 'Visible light-induced photocatalytic degradation of methylene blue dye using pure phase bismuth ferrite nanoparticles', Nilesh N. Mharsale, Pravin S. More, Yogesh B. Kholam, Shoyebmohamad F. Shaikh, Abdullah M. Al-Enizi, Sanjay R. Gadakh, *Journal of Physics and Chemistry of Solids* 192 (2024) 112049.

B) Papers Published in Proceedings of conferences:

1. 'Photoelectrochemical properties of spray deposited Sb_2S_3 thin films S.R. Gadakh, C.H. Bhosale', 'Towards Clean Energy' Proceedings of NSEC-1996, National Solar Energy Convention, Jadavpur University, Calcutta, 27th to 29th Dec. **1996** p. 316-319.

C) Papers presented in National conferences

1. 'Properties of sprayed Bi_2S_3 thin films prepared at different substrate temperatures', S.R. Gadakh, V.V. Killedar, C.D. Lokhande, C.H. Bhosale, 'National Conference on Development of Electronic Materials and Applications' (NCDEMA) 6th to 8th March **1995**.
2. 'Photoelectrochemical properties of spray deposited Sb_2S_3 thin films S.R. Gadakh, C.H. Bhosale', 'Towards Clean Energy' Proceedings of NSEC-1996, National Solar Energy Convention, Jadavpur University, Calcutta, 27th to 29th Dec. **1996** p. 316-319.
3. 'Effect of concentration of complexing agent (EDTA) on the electrical and optical properties of spray deposited Sb_2S_3 thin films', S.R. Gadakh, C. H. Bhosale, National Seminar on Recent Trends in Material Science (NSRTMS) 25-27 November **1999**, Dept. of Physics, Shri Venkateswara University, Tirupati.
4. 'Studies On Structural Properties of Bismuth Ferrite Nanoparticles By Sol-Gel Method Using Chelating Agent', S.R. Gadakh, Nilesh Mharsale "National Conference on Advance Trends in Material Science & Applications", organized by KTHM College Nashik on 30-31 August **2021**.
5. 'Structural Properties of Bismuth Ferrite nanoparticles synthesized by Sol-Gel Method'
S.R. Gadakh, "National Conference on Advanced Materials, Technology, Applications and Education -2021" (AMTAE-2021) Organized by Hon. Balasaheb Jadhav Arts Commerce & Science College Ale, Tal. Junnar, Dist. Pune on 16th October **2021**.

D) Papers presented in International conferences

1. 'Concentration effect of complexing agent (tartaric acid) on the optical and electrical properties of Sb_2S_3 thin films prepared by spray pyrolysis', 'Fourteenth International

Conference on Photochemical Conversion and Storage of Solar Energy ' held at Hokkaido University, Sapporo, Japan from 4th to 9th August **2002**.

2. 'Structural, optical and photo electro chemical properties of spray deposited CdTe thin films', D.M. Sapkal, P.S. Shinde, S.R. Gadakh, C.H. Bhosale, paper presented at the International conference on Advanced Materials and Applications, (ICAMA-2007), held at Shivaji University Kolhapur from 15-17th Nov. **2007**.
3. 'Crystallographic Analysis of Bismuth Ferrite Nanoparticles by Using Full Prof and Qualx Software' Nilesh Mharsale, S.R. Gadakh, International Conference on 'Recent Trends in Green & Sustainable Development in Chemical Sciences', Organized by KTHM College Nashik on 25-27 October **2021**.

Appendix-II

Sr. No.	Title of the Book	Publisher	ISBN No.	Year of publication
1	Electronic Devices, Circuits & computer Peripherals	Vision Publication, Pune	978-81-89993-33-7	2008
2	Fundamentals of digital Electronics	Vision Publication, Pune	978-81-89993-34-4	2008
3.	Microprocessor Architecture & Programming	Vision Publication, Pune	978-93-80111-23-0	2009
4.	8051 Microcontroller & Embedded Systems	Vision Publication, Pune	978-93-80111-96-4	2009
5	Digital Hardware systems	Vision Publication, Pune	978-93-5016-282-8	2014
6	Experimental Techniques in Physics	Yashwantrao Chavan Maharashtra Open University	978-93-92982-65-1	2022
7	Chapter in Edited book, 'Thin films and Its applications'	Mahi Publications	978-81-19492-02-2	2024