Curriculum Vitae

Dr. Sanjeewani Ramesh Bansode

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Education Qualification

- **Research Associate (CSIR-RA) :** Field Emission microscopy studies of 2D materials for the development of nanoscale devices

  01 February 2020 to 31 January 2023

- **Ph.D in Physics (November 2012 - Dec 2017)**

Dissertation Topic : Synthesis, Structural and Field Electron Emission Characterization of Reduced Graphene Oxide (RGO) and; RGO-CdS, RGO-MoS_2, RGO-Bi_2Se_3, and RGO-SnO_2 nanocomposites.
Advisor : Prof. Dr. Mahendra More
FEM/FIM laboratory, Department of Physics, Savitribai Phule Pune University.

- **Master of Science (M. Sc Physics)**

(2006-2008)
Department of Physics, Savitribai Phule Pune University
Second Class 51.45%

- **Bachelor of Education (B.Ed)**

(2009-2010)
Aadarsh college , Pune
First Class 65.20%

- **Bachelor of Science (B.Sc Physics)**
  (2003-2006)
  Baburaoji Gholap college, Pune
  First Class 75.75%

- **Matriculation (SSC) and Higher secondary (H.Sc)**
  Pune Maharashtra State Board
  First Class 65.20 % & Second Class 58 %

Teaching /Reasearch Experience :

Employer	Position held	Date of Joining	Date of Leaving	Total Experience
1) Baburoaji Gholap College, Sangvi	Assistant Professor	15.07.2025	15.07.2026	9 Months
2) Faculty of Electrical and Mechanical Engineering (FE&M), College of Military Engineering (CME), Dapodi Pune	Assistant Professor	24.04.2025	30.06.2025	2 Months
3) CSIR Sanction No 21(1080)/19/EMR-II Date - 24.05.2019	Research Associate	01.02.2020	31.01.2023	3 Years
4) B. R. Gholap College , Sangavi, Pune	Assistant Professor	01.08.2019	31.01.2020	6 Months
5) D. Y. Patil Engineering College, Pimpri, Pune	Assistant Professor	16.07.2018	24.09.2018	2 Months
6) Rayat Shikshan Sanstha, Pimpri, Pune	Lecturer (Leave Vacancy)	21.06.2011	10.10.2011	3 Months
7) Janata Shikshan Sanstha , Sangavi, Pune	Lecturer	26.06.2010	19.04.2011	10 Months
Teaching Experience : 3 Years 2 months **Research Experience : 3 Years**				

Achievements:

First rank holder in PET 2012 exam

Award :

"Best Thesis Presentation" award in Raman Memorial Conference 2017, held at Department of Physics, Savitribai Phule Pune University, on 3rd-4th March, 2017.

Research Interest : Synthesis and characterization of Few layered Graphene, Graphite Oxide (GO), Reduced Graphene Oxide (RGO) and their nanocomposites with metal oxides , metal sulphides, transition metal chalcogenides and topological insulators

Research Skills : Experimental hands on

- Expertise on synthesis of GO, RGO, Graphene quantum dots (GQD), and Graphene Nanoribbons (GNR)
- Field Electron Emission Microscopy
- Chemical Synthesis
- Thermal Evaporation Technique
- Hydrothermal Synthesis
- Ultra-High Vacuum (UHV) Technique

Materials Characterization Techniques:

- X-ray Diffraction (XRD)
- Field Emission Scanning Electron Microscope (FESEM)
- High Resolution Transmission Electron Microscope (HRTEM)
- Raman Spectroscope

List of Publications :

Sr. No	Title	Authors	Journal details	Impact factor
1)	ZnS-rGO nanocomposite: an efficient sun light driven photocatalyst for degradation of methylene blue	PrashantH.Shinde, YogitaPadwal,**Sanjeewani R. Bansode,** Ratna Chauhan, Shrikant Charhate, Rishi B. Sharma, Hassan Fouad, ChiakiTerashima, Suresh W. Gosavi, Dattatray J. Late	Journal of Materials Science: Materials in Electronics **2023**, 34,1627	**2.8**

2)	ZnS–RGO nanocomposite structures: synthesis, characterization and field emission properties	**Sanjeewani R. Bansode,*** Mahendra A. More Rishi B. Sharma	New Journal of Chemistry RSC **2023**,47, 2273	**3.925**
3)	Morphology-dependent field emission investigations from the 2-dimensional Bi_2Se_3-RGO nanocomposites	**Sanjeewani R. Bansode,*** Kashmira V. Harpale, Pallavi Mutadak, Kishor M. Sonawane, Manohar G. Chaskar,Mahendra A. More, Rishi B. Sharma	Materials Science and Engineering B 274, **2021**, 115450	**3.407**
4)	One-pot synthesis, characterization, and field emission investigations of composites of polypyrrole with graphene oxide, reduced graphene oxide, and graphene nanoribbons	Kashmira V. Harpale, **Sanjeewani R. Bansode,** Mahendra A. More	Journal of applied polymer science **2017**, 134, 45170	**3.125**
5)	One step hydrothermal synthesis of SnO2-RGO nanocomposite and its field emission studies	**Sanjeewani R. Bansode**,Ruchita T. Khare, Krishna K. Jagtap, Mahendra A. More,Pankaj Koinkar	Materials Science in Semiconductor Processing 63 , **2017**, 90–96	**3.927**
6)	Morphological, structural and field emission characterization of hydrothermally synthesized MoS_2-RGO nanocomposite	**Sanjeewani R Bansode,** Kashmira Harpale, Ruchita T Khare, Pravin SWalke, Mahendra A More	Mater. Res. Express IOP science 3, **2016** 115023	**2.025**
7)	Facile, single step synthesis of CdS—RGO heterostructure and its photo enhanced field	**Sanjeewani R Bansode,** Ruchita T Khare, Kashmira Harpale, Mahendra A More	Materials Research. Express 3, **2016** 035602	**2.025**

	emission investigations			
8)	Graphene nanoribbons as prospective field emitter	Ruchita Khare, Dhanraj B. Shinde, **Sanjeewani Bansode,** Mahendra A.More,Mainak Majumder , Vijayamohanan K. Pillai, Dattatray J. Late	Applied Physics Letters 106, 023111 **2015**	**3.971**

Book/ chapters Publication:

1) Book Title : Applications of One-dimensional Nanomaterials

Chapter 9 : Tin Oxide Nanowires and SnO_2-RGO nanocomposite: Field Electron Emission Investigations

Padmashree D. Joshi, **Sanjeewani R. Bansode,** Dilip S. Joag, Mahendra A. More
Publisher of the book : American Scientific Publishers 2019
Author of the book : Edited by Dr. Ramesh Chaughule and Dr. Rupesh Devan
http://dspace.iiti.ac.in:8080/jspui/handle/123456789/22726789/2272

Conference Proceeding Publications:

1) Electron emission from a solvothermally synthesized ZnS-RGO nanocomposite field emitter
   Sanjeewani R Bansode, *Mahendra A More, Rishi B Sharma*

   2021 34th International Vacuum Nanoelectronics Conference (IVNC) 1-2, IEEE

2) Field emission investigation of composites of Polypyrrole with graphene oxide, reduced graphene oxide and graphene nanoribbons
   Kashmira Harpale, ***Sanjeewani Bansode***, *Mahendra More, DJ Late*

   2016 29th International Vacuum Nanoelectronics Conference (IVNC), 1-2, IEEE

3) One-pot thermal evaporation synthesis of CdS-RGO hetrostructure and its field emission study
   Sanjeewani R Bansode, *Ruchita T Khare, Mahendra A More, DJ Late*
   2015 28th International Vacuum Nanoelectronics Conference (IVNC), 82-83, IEEE

4) Direct synthesis of Cu_2O-RGO nanocomposite on Cu foil by thermal evaporation method and its field emission study

   Sanjeewani Bansode, *Ruchita Khare, Kashmira Harpale, Pankaj Kolhe, Mahendra More*
   AIP Conference Proceedings 1665, 050181 (2015); https://doi.org/10.1063/1.4917822

5) One step synthesis of SnO_2-RGO nanocomposite by thermal evaporation and its field emission study

Sanjeewani R Bansode, *Ruchita T Khare, SR Suryawanshi, Sandip S Patil, Mahendra A More*
2014 27th International Vacuum Nanoelectronics Conference (IVNC), 81-82, IEEE
P1-27 Technical Digest, 2014 27th International Vacuum Nanoelectronics Conference, 6-10 July, 2014 Engelberg, Switzerland