

## CURRICULUM VITAE



### 1. PERSONAL DETAILS

2. Name : Dr. Sarita Suresh Kumbhar
3. Permanent Address : A/P- Sarnobatwadi, Manglanad Nivas Plot No-11, Gate No 2/2, Toraskar Mala, Sarnobatwadi, Kolhapur, Pin-416 004, Maharashtra, India
4. Designation : Assistant Professor
5. Qualification : M. Sc., Ph. D.
6. Mobile Number : 9834956955
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8. Google Scholar :  
<https://scholar.google.com/citations?user=xMcZwCAAAAJ&hl=en>
9. Scopus ID : 55844275900
10. Orcid Id : 0009-0004-0081-7894
11. Vidwan Id : 440284
12. Date of Birth : 11-01-1989
13. Gender : Female

### 2. EDUCATIONAL QUALIFICATION:

Degree /Qualification	School/ College/Institute	Board/ University	Passing Year	Class & Percentage	Specialization
Ph.D.	Shivaji University, Kolhapur.	Shivaji University, Kolhapur.	2015	-	Material Science
M.Sc.	Shivaji University, Kolhapur.	Shivaji University, Kolhapur.	2011	First Class 60.12 %	Space Science
B.Sc.	Dahiwadi College, Dahiwadi	Shivaji University, Kolhapur.	2009	Distinction 62.04 %	Physics

3. **Ph.D. thesis title** : “**Studies on spray deposited nano-crystalline Ni-Zn ferrite and BaTiO<sub>3</sub> ferroelectric thin films**”
4. **Guide’s Name** : **Prof. (Dr.) C. H. Bhosale**
5. **Research Specializations** :
- Ferrite and Ferroelectric materials
  - Magneto-electric composites
  - Gas sensors
  - Solar cells
  - Nanomaterials
  - Thin films

**6. Awards/Achievements:**

- 1) “Award of **Golden Jubilee research fellowship**”, from Shivaji University, Kolhapur, 2011-2013”
- 2) “**Reviewer award** for journal of “**Materials science in semiconductor processing**” (2015)
- 3) “**1st prize in paper presentation** for National Conference on Recent trends and Issues in Renewable Energy (NCRTIRE-2014)”, held in Rajarshi Chatrapati Shahu College, Kolhapur
- 4) “**Best poster award for the research paper** in International Conference on advances in Material Science (ICAMS-2016) held on 7-8 December 2016”

7. **Date of recognition as PG teacher** (if applicable) :

8. **Date of recognition as Research Guide** (if applicable):

9. **Number of students completed M. Phil. /Ph.D. degree under your supervision**

10. **Number of Research Students currently working under your supervision :**

11. **Teaching Experience:**07 years

**UG level:** 04 years,

**PG level:** 03 years

Employer	Position Held	Date of Joining	Date of Leaving	Scale of Pay	Level
Balwant College, Vita	Assistant Professor	04-08-2016	27-10-2016	Full Time (Contract Basis)	UG
Balwant College, Vita	Assistant Professor	22-11-2016	28-02-2017	Full Time (Contract Basis)	UG
Rajarshi Chhatrapati Shahu College, Kolhapur	Assistant Professor	26-07-2017	14-10-2017	Full Time (Contract Basis)	UG
Rajarshi Chhatrapati Shahu College, Kolhapur	Assistant Professor	10-11-2017	28-02-2018	Full Time (Consolidated)	UG
Rajarshi Chhatrapati Shahu College, Kolhapur	Assistant Professor	18-07-2019	31-03-2020	Full Time (Contract Basis)	UG
Rajarshi Chhatrapati Shahu College, Kolhapur	Assistant Professor	26-07-2020	31-03-2021	Full Time (Contract Basis)	UG
Rajarshi Chhatrapati Shahu College, Kolhapur	Assistant Professor	10-10-2021	06-12-2021	Full Time (Contract Basis)	UG
S.G.M. College, Karad	Assistant Professor	17-12-2021	Till date	Full Time (Contract Basis)	UG

**Experience in this College** : 02 months

**12. Research Articles Published** : 26

**Total citations: 872 (Google scholar) h-index:**

**16(Google scholar)Link to the Google scholar account:**

**<https://scholar.google.com/citations?hl=en&user=xMcrzWc>**

**AAAAJ**

1.	<b>S. S. Kumbhar</b> , MA Mahadik, VS Mohite, YM Hunge, KY Rajpure, CH Bhosale, “Effect of Ni content on the structural, morphological and magnetic properties of spray deposited Ni–Zn ferrite thin films”, <b>Materials Research Bulletin</b> , 67 (20145) 47-54
2	<b>S. S. Kumbhar</b> , MA Mahadik, SS Shinde, KY Rajpure, CH Bhosale, “Fabrication of ZnFe <sub>2</sub> O <sub>4</sub> films and its application in photoelectrocatalytic degradation of salicylic acid”, <b>Journal of Photochemistry and Photobiology B: Biology</b> , 142 (2015) 118-

	123
3.	<b>S. S. Kumbhar</b> , MA Mahadik, VS Mohite, KY Rajpure, CH Bhosale, “Synthesis and characterization of spray deposited Nickel-Zinc ferrite thin films”, <b>Energy Procedia</b> , 54 (2014) 599-605
4.	<b>S. S. Kumbhar</b> , MA Mahadik, VS Mohite, KY Rajpure, JH Kim, AV Moholkar, CH Bhosale, “Structural, dielectric and magnetic properties of Ni substituted zinc ferrite”, <b>Journal of Magnetism and Magnetic Materials</b> , 363 (2014) 114-120
5.	<b>S. S. Kumbhar</b> , MA Mahadik, VS Mohite, YM Hunge, PK Chougule, KY Rajpure, CH Bhosale, “Fabrication of Ni <sub>0.4</sub> Zn <sub>0.6</sub> Fe <sub>2</sub> O <sub>4</sub> -BaTiO <sub>3</sub> bilayered thin films obtained by spray pyrolysis method for magnetoelectric (ME) effect measurement”, <b>Journal of Materials Science: Materials in Electronics</b> , 2015, 1-13
6.	<b>S. S. Kumbhar</b> , MA Mahadik, PK Chougule, VS Mohite, YM Hunge, KY Rajpure, AV Moholkar, CH Bhosale, “Structural and electrical properties of barium titanate (BaTiO <sub>3</sub> ) thin films obtained by spray pyrolysis method”, <b>Materials Science-Poland</b> , 2016
7.	MA Mahadik, SS Shinde, <b>S. S. Kumbhar</b> , HM Pathan, KY Rajpure, CH Bhosale, “Enhanced photocatalytic activity of sprayed Au doped ferric oxide thin films for salicylic acid degradation in aqueous medium”, <b>Journal of Photochemistry and Photobiology B: Biology</b> , 142 (2015) 43-50
8.	YM Hunge, MA Mahadik, <b>S. S. Kumbhar</b> , VS Mohite, KY Rajpure, C. H Bhosale, “Visible light catalysis of methyl orange using nanostructured WO <sub>3</sub> thin films”, <b>Ceramics International</b> 42 (2016), 789-798
9.	PK Chougule, <b>S. S. Kumbhar</b> , YD Kolekar, CH Bhosale, “Enhancement in Curie temperature of nickel substituted Co-Mn ferrite”, <b>Journal of Magnetism and Magnetic Materials</b> , 372 (2014) 181-186
10.	MA Mahadik, SS Shinde, YM Hunge, VS Mohite, <b>S. S. Kumbhar</b> , AV Moholkar, KY Rajpure, CH Bhosale, “UV assisted photoelectrocatalytic oxidation of phthalic acid using spray deposited Al doped zinc oxide thin films”, <b>Journal of Alloys and Compounds</b> , 611 (2014) 446-451
11.	VS Mohite, MA Mahadik, <b>S. S. Kumbhar</b> , VP Kothavale, AV Moholkar, KY Rajpure, CH Bhosale, “Photoelectrocatalytic degradation of benzoic acid using sprayed TiO <sub>2</sub> thin films”, <b>Ceramics International</b> , 41 (2015) 2202-2208
12.	MA Mahadik, SS Shinde, VS Mohite, <b>S. S. Kumbhar</b> , KY Rajpure, AV Moholkar, CH Bhosale, “Photoelectrocatalytic activity of ferric oxide nanocatalyst: A

	synergistic effect of thickness”, <b>Ceramics International</b> , 40 (2014) 9463-9471
13.	MA Mahadik, SS Shinde, VS Mohite, <b>S. S. Kumbhar</b> , AV Moholkar, KY Rajpure, V Ganesan, J Nayak, SR Barman, CH Bhosale, “Visible light catalysis of rhodamine B using nanostructured Fe <sub>2</sub> O <sub>3</sub> , TiO <sub>2</sub> and TiO <sub>2</sub> /Fe <sub>2</sub> O <sub>3</sub> thin films”, <b>Journal of Photochemistry and Photobiology B: Biology</b> , 133 (2014) 133, 90-98
14.	Mahadeo Mahadik, Sambhaji Shinde, Vijay Mohite, <b>Sarita Kumbhar</b> , Kesu Rajpure, Annasaheb Moholkar, Jin Kim, Chandrakant Bhosale, “Photoelectrocatalytic oxidation of Rhodamine B with sprayed $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> photocatalyst”, <b>Materials Express</b> , 3(2013) 247-255
15.	VS Mohite, MA Mahadik, <b>S. S. Kumbhar</b> , YM Hunge, JH Kim, AV Moholkar, KY Rajpure, CH Bhosale, “Photoelectrocatalytic degradation of benzoic acid using Au doped TiO <sub>2</sub> thin films”, <b>Journal of Photochemistry and Photobiology B: Biology</b> , 142 (2015) 204-211
16.	YM Hunge, VS Mohite, <b>S. S. Kumbhar</b> , KY Rajpure, AV Moholkar, CH Bhosale, “Photoelectrocatalytic degradation of methyl red using sprayed WO <sub>3</sub> thin films under visible light irradiation”, <b>Journal of Materials Science: Materials in Electronics</b> , 26 (2015) 8404-8412
17.	YM Hunge, MA Mahadik, VS Mohite, <b>S. S. Kumbhar</b> , NG Deshpande, KY Rajpure, AV Moholkar, PS Patil, CH Bhosale, “Photoelectrocatalytic degradation of methyl blue using sprayed WO <sub>3</sub> thin films”, <b>Journal of Materials Science: Materials in Electronics</b> , 2016, 1-7
18.	Rajaram S. Sutar, Manisha S. Mane, Sanjay S. Lathe, P. G. Pawar, <b>Sarita S. Kumbhar</b> , Uma V. Nerle, U. E. Mote, J. L. Bhosale, B. N. Kokare, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing; “Oil–Water Separation by ZnO-Based Superhydrophobic PU Sponges”; <i>Journal of Macromolecular Symposia</i> , 393 1(2000036), 13 October 2020 <a href="https://doi.org/10.1002/masy.202000036">https://doi.org/10.1002/masy.202000036</a>
19.	D Kumbhar, <b>S Kumbhar</b> , G Salunke, R Nalawade, A Nalawade; “Effect of Cu Doping on Structural and Optical Properties of ZnO Nanoparticles Using Sol–Gel Method”; <i>Macromolecular Symposia</i> 387 (1), 1800192
20.	Deepak Kumbhar, <b>Sarita Kumbhar</b> , Anant Dhodamani, Sagar Delekar, Namdev Harale, Rekha Nalawade, Avinash Nalawade; “Enhanced photoelectrochemical cell

	performance of Co doped ZnO nanoparticles sensitized by affordable mixed dyes as sensitizer”; Inorganic and Nano-Metal Chemistry 51 (9), 1258-1271
21.	Deepak A Kumbhar, <b>Sarita S Kumbhar</b> , Vilas V Killedar, Rekha A Nalawade, Avinash M Nalawade, Govind D Salunke, Krishna K Rangar; “Structural, Morphological, and Optical Investigation of Ag-Doped TiO <sub>2</sub> /rGO Nanocomposite Synthesized by Ex Situ Route”; Macromolecular Symposia 400 (1), 2100175
22.	Deepak Kumbhar, Sagar Delekar, <b>Sarita Kumbhar</b> , Ananta Dhodamani, Namdev Harale, Rekha Nalawade, Avinash Nalawade, “Effect of Mn <sup>2+</sup> Substitution into the Host Lattice of ZnO via sol–gel Route for Boosting the Dye-Sensitized Solar Cells Performance; Chemical Papers, 1-17
23.	DA Kumbhar, AM Nalawade, <b>S. S Kumbhar</b> , RA Nalawade, GD Salunke; “SYNTHESIS OF CO DOPED ZnO NANOPARTICLES BY SOL GEL METHOD AND THEIR CHARACTERIZATIONS FOR SOLAR CELL APPLICATION” (2018); ADVANCES IN MATERIALS SCIENCE ISBN: 978-81-931247-6-5 74
24.	Kumbhar DA, <b>Kumbhar S. S</b> and Nalawade AM; “Structural and morphological study of Mn doped ZnO nanoparticles prepared by sol-gel method”; Int. J. of. Life Sciences, Special Issue, A10: 73-76
25	Dielectric behavior and phase transition of La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> films synthesized by spray pyrolysis technique, Govinda A Kadam, Sagar A Patil, Bajarang B Patil, Sarita S Kumbhar, Sambhaji S Kumbhar, Suraj B Madake, Laxman D Kadam, Yuan-Ron Ma, Sujit A Kadam, Rajesh K Nimat, 2023

**13. Number of books and chapters in edited volumes/ and papers published in national/ international conference proceedings: 08**

1.	<b>S. S. Kumbhar</b> , M. A. Mahadik, V. S. Mohite, A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale, Synthesis and characterization of Ni-Zn Ferrite thin films prepared by spray pyrolysis technique, “International Symposium on Macro- and Supermolecular Architectures and Materials: Nano Systems and Applications”, 21-23 November 2012, K. S. Rangasamy College of Technology, Tamilnadu, India.
2.	<b>S. S. Kumbhar</b> , M. A. Mahadik, V. S. Mohite, A. V. Moholkar , K. Y.

	Rajpure, C. H. Bhosale, Synthesis and characterization of spraydeposited Nickel-Zinc ferrite thin films, “4 <sup>th</sup> International Conference on Advances in Energy Research”, 10-12 <sup>th</sup> Dec. 2013, Department of Energy Science and Engineering, IIT Bombay.
3.	<b>S. S. Kumbhar</b> , M. A. Mahadik, V. S. Mohite, K. Y. Rajpure, C. H. Bhosale, Synthesis and characterization of zinc ferrite thin films prepared by spray pyrolysis technique, “2 <sup>nd</sup> International Conference on Physics of Materials and Materials Based Device Fabrication, (ICPM-MDF-2014)”, 13-15 <sup>th</sup> January 2014, Department of Physics, Shivaji University, Kolhapur.
4.	<b>S. S. Kumbhar</b> , M. A. Mahadik, K. Y. Rajpure, C. H. Bhosale, Structural and electrical properties of barium titanate (BTO) thin films prepared by spray pyrolysis technique, “National conference On Recent Trends And Issues in Renewable Energy (NCRTIRE)” January 27-28 <sup>th</sup> , 2014. Rajarshi Chhatrapati Shahu College, Kolhapur.
5.	V. S. Mohite, M. A. Mahadik, <b>S. S. Kumbhar</b> , K. Y. Rajpure, A. V. Moholkar, C. H. Bhosale, Structural, Optical, Electrical and Thermal Properties of TiO <sub>2</sub> thin films by Spray Pyrolysis technique, “2 <sup>nd</sup> International Conference on Physics of Materials and Materials Based Device Fabrication, (ICPM-MDF-2014)”, 13-15 <sup>th</sup> January 2014, Department of Physics, Shivaji University, Kolhapur.
6.	M. A. Mahadik, V. S. Mohite, <b>S. S. Kumbhar</b> , Y. M. Hunge, H. M. Pathan, K. Y. Rajpure, A. V. Moholkar, C. H. Bhosale, Enhanced photoelectrochemical performance of sprayed Ti-doped iron oxide thin films, “2 <sup>nd</sup> International Conference on Physics of Materials and Materials Based Device Fabrication, (ICPM-MDF-2014)”, 13-15 <sup>th</sup> January 2014, Department of Physics, Shivaji University, Kolhapur.
7.	M. A. Mahadik, V. S. Mohite, <b>S. S. Kumbhar</b> , Y. M. Hunge, M. N. Spallart,

	K. Y. Rajpure, A. V. Moholkar, C. H. Bhosale, Photocatalytic degradation of benzoic acid using sprayed Fe <sub>2</sub> O <sub>3</sub> thin films, “National conference On Recent Trends And Issues in Renewable Energy (NCRTIRE)”, January 27-28 <sup>th</sup> , 2014. Rajarshi Chhatrapati Shahu College, Kolhapur.
8.	M. A. Mahadik, V. S. Mohite, <b>S. S. Kumbhar</b> , A. V. Moholkar, K. Y. Rajpure, C. H. Bhosale, Photoelectrocatalytic Degradation of Salicylic acid using Sprayed Gold Doped Iron Oxide Thin Films, “4 <sup>th</sup> International Conference on Advances in Energy Research”, 10-12 <sup>th</sup> Dec. 2013, Department of Energy Science and Engineering, IIT Bombay. ( <b>Oral presentation: <a href="https://www.slideshare.net/icaer2013/291-sarita">https://www.slideshare.net/icaer2013/291-sarita</a></b> )

#### 14. Details of Workshop/ Seminar/ Conference/ Symposia Attended/

##### Participated/Presented:

**National: 5**

**International: 04**

Sr. No.	Date & Year	Organized by	Training Description
1	04/05/2021	Department of Chemistry and IQAC of Raje Ramrao College, Jat	National webinar on “Laboratory Safety Management”
2	22/05/2021	Department of Botany and IQAC of Raje Ramrao College, Jat	National webinar on “World Natural Heritage :Kaas Plateau”
3	22 May 2020	Department of Physics (S &H), Kumaraguru College of technology, Coimbatore	“Webinar on Shock Waves-A potential tool for tailoring materials property”
4	29- 30th May, 2020	Barr. Balasaheb Khardekar Knowledge Resource Center and Department of Library and Information Science of Shivaji University, Kolhapur	NATIONAL WEBINAR On“E-Content Creation and E-Learning through MOOCs”
5	5 <sup>th</sup> June, 2021	NSS, NCC, Science Club, Nature Club and IQAC, Karmaveer Hire Arts, Science, Commerce and Education College, Gargoti	One Day National Student Seminar on "Role of Students in Biodiversity and Water Conservation"
6	5 <sup>th</sup> June, 2021	Department of Zoology and	National webinar on World Environment



		IQAC of Devchand College, Arjunnagar	Day
7	nd June, 2021	IQAC of Yashavantrao Chavan Institute of Science, Satara (Autonomous)	One Day State Level Workshop on “Understanding NAAC Manual”
8	10th May, 2020	Internal Quality Assurance Cell (IQAC) of Mahatma Phule Mahavidyalaya, Kingaon	National Workshop entitled “Creating video lectures using BOS studio”
9	16/05/2020	Department of Library Science and IQAC of Raje Ramrao Mahavidyalaya, Jath – 416404	National Webinar on “Role of Knowledge Resource Centre of HEI’s in Post COVID- 19”
10	th May 2021 to 1st June 2021	Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur.	‘Five Day Physics Lecture Series’

### 15. Lectures Delivered at Workshop/ Seminar/ Conference/ Symposia

and other as Resource Person :

### 16. Projects ongoing/completed

Sr. No.	Name of the research project/ endowment	Name of the Principal Investigator/Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency
1.	“Synthesis and characterization of Ni-Zn Ferrite thin films for gas sensing application.”	Dr. Kumbhar S. S.	Physics	2023	30,000	1 Year	RUSA

### 17. Book in chapters:

Sr. No	Name of the chapter
1.	Synthesis and characterization of Ni-Zn Ferrite thin films prepared by spray pyrolysis technique. <b>Book Name:</b> Nanomaterial synthesis and characterization <b>ISBN:978-93-82563-36-5</b>

**DECLARATION:**

I hereby declare that all information in this document is true,  
complete and correct to the best of my knowledge and belief.

**Place:** Ichalkaranji

**Signature**

**Date:** 26/10/2024

**(Name-Dr. Sarita Suresh Kkumbhar)**