

## CURRICULUM VITAE

### 1. PERSONAL PROFILE:

**Name** : Dr. Sarita Suresh Kumbhar  
**Father Name** : Suresh  
**Gender** : Female  
**Date of Birth** : 11/01/1989  
**Marital Status** : Married  
**Religion** : Hindu-Kumbhar  
**Category** : OBC  
**Conversant in** :  
**Address for Communication:** Dept. of Physics, S.G.M. College, Karad, Dist-Satara,  
Pin- 415124, Maharashtra, India  
**Permanent Address** : A/P- Sarnobatwadi, Kolhapur, Pin-416 004,  
Maharashtra, India  
**Mobile No.** : 9834956955  
**E-mail ID** : saritakumbhar1540@gmail.com  
**Employment Reg. No.** :-



### 2. EDUCATIONAL QUALIFICATION:

Degree	Name of Institute / College	University	Year of Passing	Marks (%)
B.Sc.	Dahiwadi College, Dahiwadi	Shivaji University, Kolhapur	2009	64.04 %
M.Sc.	Shivaji University, Kolhapur	Shivaji University, Kolhapur	2011	60.12 %
Ph.D.	Shivaji University, Kolhapur	Shivaji University, Kolhapur	2015	

### 3. EXPERIENCE:

Designation	Name of Institution / Organization	Period of Service		Experience (Years & Months)
		From	To	
Assistant Professor (CHB)	Balwant College, Vita	04-08-2016	28-02-2017	6-Months
Assistant Professor (CHB)	Rajarshi Chhatrapati Shahu College, Kolhapur	26-07-2017	06-12-2021	4-Years
Assistant Professor (CHB)	S.G.M. College, Karad	17-12-2021	Till date	2.5- Years

Total Teaching Experience: \_\_7\_\_ years & \_\_01\_\_ Months

### 4. BOOK PUBLISHED: NIL

### 5. PATENTS PUBLISHED: NIL

### 6. AWARDS AND ACHIVEMENTS:

- 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) heldon 7-8 December 2016"

### 7. RESEARCH PAPER PRESENTED:

### 8. RESEARCH PAPER/ REVIEW ARTICLE PUBLISHED:

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
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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”; <i>Inorganic and Nano-Metal Chemistry</i> 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

#### 9. SEMINAR / CONFERENCE/ WROKSHOP ATTENDED:

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 tequnique, “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, “2nd 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, “2nd 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.

**10. WORK AS RESOURCE PERSON: NIL**

**11. MEMBER OF ORGANIZING COMMITTEE: NIL**

**12. OTHER**

**Title of Ph.D. Thesis:**

13. “Studies on spray deposited nano-crystalline Ni-Zn ferrite and BaTiO<sub>3</sub> ferroelectric thin films”

**Research Interest:**

1. Ferrite and Ferroelectric materials
2. Magneto-electric composites
3. Gas sensors

4. Solar cells
5. Nanomaterials
6. Thin films

**WEBINAR / WORKSHOP ATTENDED:**

<b>Sr. No.</b>	<b>Date &amp; Year</b>	<b>Organized by</b>	<b>Training Description</b>
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 IQAC of Devchand College, Arjunnagar	National webinar on World Environment Day
7	2nd June, 2021	IQAC of Yashwantrao 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,	National Workshop entitled “Creating video lectures using BOS studio”

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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	28th May 2021 to 1st June 2021	Department of Physics, Rajarshi Chhatrapati Shahu College, Kolhapur.	‘Five Day Physics Lecture Series’

**FACULTY DEVELOPMENT PROGRAMME (FDP) ATTENDED:**

Sr. No.	Date & Year	Organized by	Training Description
1	18 <sup>th</sup> to 30 <sup>th</sup> May, 2020	Shreemati Nathibai Damodar Thackersey (SNDT) Women's University	Two Weeks Faculty Development Programme On Empowerment Through Digital Technology and E-Learning
2	11 <sup>th</sup> to 16 <sup>th</sup> May 2020	School of Mathematical Sciences, Swami Ramanand Teerth Marathwada University, Nanded.	One Week National Online Faculty Development Program on ICT Tools for Effective Teaching Learning
3	19 <sup>th</sup> May to 23 <sup>rd</sup> May 2020	Faculty of Humanities and Sciece, Adayalampattu Phase II campus, Maduravoyal, Chennai	One Week National Level Online FDP for Trainers on “Mastering the Art of Handling Post Covid Challenges for Sustainable Development”

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**Name: Dr. Sarita Suresh Kumbhar.**