

## Teacher Profile

### Savita Vasant Rao Thakare

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### Personal Information

- **Name** : Savita Vasant Rao Thakare
- **Date of Birth** : 16/04/1984
- **Nationality** : INDIAN
- **Present Position** : Professor/Associate Professor/Assistant Professor
- **Experience** : 12 Years and 6 month
- **Marital Status** : Married/Unmarried
- **Areas of Research** : Material Science and its application
- **Vidwan ID** : 346173
- **Orchid ID** : 0000-0003-3607-6560

### Educational Details

Degree/Diploma	College/University	Year of Passing	Percentage Marks/CGPA	Class
Ph.D.	Savitribai Phule Pune University	2020	Awarded	
SET	Savitribai Phule Pune University	2010	Qualified	
M.Sc. (Organic Chemistry)	Savitribai Phule Pune University	2007	69.65%	First class
B.A. (Chemistry)	Savitribai Phule Pune University	2005	78.33%	First Class with Distinction

### Thesis

Degree	Name of the Guide	Title
Ph.D.	Dr. Ashok Vishram Borhade	Synthesis and characterization of Fly ash supported metal oxide of the type AO (where A = Ni, Cu, Co) and (where B = Zr, Ru, Rh) : Their application in organic synthesis and enzyme mimetic activity

## Teaching Experience (12 Years)

Organization	Duration	Designation	Total Experience
Maratha Vidya Prasarak Samaj Nashik	6 <sup>th</sup> Sept. 2010 Till Date	Assistant Professor	12 Year 6 Months

## Technical Skills:

Software's/ Programming	Chemdraw Softwares Avogadro Softwares J mol software Periodic table software
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## Research

### Research Paper Publications

- 1 **S.V. Thakare**, A simple and efficient chitosan mediated solgel synthesis of RuO<sub>2</sub> nanoparticles, *International Journal of Research and Analytical Reviews (IJRAR)*, 8, 2021, 826-828. [2348-1269]
- 2 **S.V. Thakare**, Novel Green Synthesis of Silver Nanorods Using Linear Polysaccharides, *SSRG International Journal of Applied Chemistry*, 8, 2021, 17-19. [2393 – 9133]
- 3 **S.V. Thakare**, The Influence of Calcination Temperature on the Formation of Nickel Oxide Nanoparticles by Sol-gel Method, *SSRG International Journal of Applied Chemistry*, 8, 2021, 26-29. [2393 – 9133]
- 4 **S.V. Thakare**, A.V. Borhade and T.D. Patil convenient green approach for one pot synthesis of 1, 8 dioxo-octahydroxanthene derivatives by Co<sub>3</sub>O<sub>4</sub> nanoparticles catalysis in aqueous media, *Heterocyclic Letters*, 11, 2021, 605-613. [2230 – 9632]
- 5 **S.V. Thakare**, Investigation of antimicrobial properties and characterization of silver nanoparticles initiated via silver effluent *Journal of the Maharaja Sayajirao University of Baroda*, 55, 2021, 396-399. [0025-0422]
- 6 **S.V. Thakare**, A.V. Borhade and T.D. Patil Green Synthesis of Barbituric Acid Derivative via Goldsmith Effluent Initiated Gold Nanoparticles and its Molecular Docking Study against Alzheimer Drug Target, *Asian Journal of Organic & Medicinal Chemistry*, 6, 2021, 175-180 [2456-8937]
- 7 Ashok.V. Borhade, **Savita V. Thakare**, Dipak R. Tope and Sachin K. Kushare, Synthesis and Fractal Properties of NiO Nanoparticles, *International Journal of Research and Analytical Reviews*, 6, 2019, 25-29. [2348-1269]

- 8 Ashok V. Borhade, Dipak R. Tope, Sachin S. Kushare and **Savita V. Thakare**, Fly ash supported NiO as an efficient catalyst for the synthesis of xanthene and its molecular docking study against plasmodium glutathione reductase, *Research on Chemical Intermediates*, 44, **2018**, 7459–7478. [1568-5675]
- 9 **S.V. Thakare**, A.V. Borhade and T.D. Patil **2017** Sol-Gel Synthesis and characterization of Strontium Carbonate Nanostructure in Absence of Carbonate Reagent. Scholarly research journal for interdisciplinary studies 6, 54-58. [2319-4766]
- 10 Tushar D. Patil, Sonali B. Dhage, **Savita V. Thakare** and Nitin D. Sali, Autoclave mediated microwave assisted green Synthesis of zinc chloride nanoparticle embedded cotton fibers and its evaluation for antibacterial properties, *NCANAP 2013 PROCEEDING*, **2013**, 146 -148. [978-81-924820-3-3]
- 11 Tushar D. Patil and **Savita V. Thakare**, Insilico evaluation of selected Triterpene Glycosides as a human DNA Topoisomerase II Alpha ( $\alpha$ ), Inhibitor International *Journal of Pharmacy and Pharmaceutical Sciences* 4, **2012**, 201-204. [1482-1826]
- 12 Tushar D. Patil, Shrikant Pawar, Pramod N. Kamble and **Savita V. Thakare** Bioremediation of complex hydrocarbons using microbial consortium isolated from diesel oil polluted soil *Der Chemica Sinica*, 3, **2012**, 953-958. [0976-8505]
- 13 S.V. Thakare, A.V. Borhade and S.L. Sangle An approach to rapid one-pot multi-component synthesis of 1,4-dihydropyrano [2,3-c] pyrazole catalyzed by core shell nio-Co<sub>3</sub>O<sub>4</sub>@CuO nanoplates under solvent-free conditions. *Heterocyclic Letters*, 14, 55-63 January 2024. [2230 – 9632]
- 14 S.V. Thakare, A.V. Borhade and S.L. Sangle Synthesis of Bis-Pyrazole Derivatives Using Coal Fly Ash @CuO CoreShell Nanocomposite and their Molecular Docking against Human Tyrosyl DNA Phosphodiesterase I Current catalysis, June, 2024 DOI: 10.2174/0122115447300199240528112450 [2211-5455]
- 15 S.V. Thakare, K. D. Khairnar, A. M. Sajgure An efficient and reusable heterogeneous nanocatalyst: cuo-Co<sub>3</sub>O<sub>4</sub>@NiO core shell for the rapid one-pot synthesis of pyrano [2,3-d] pyrimidines *Heterocyclic Letters*, 14, 619-627, July 2024. [2230 – 9632]

### Research Paper Papers presented in International/National Conferences

- 1 **S.V. Thakare** 2021 Sodium Dodecyl Sulfonate Assisted Sol-Gel Synthesis and Characterization of Co<sub>3</sub>O<sub>4</sub> Nanoparticles International e-Conference on Recent Trends in Nano-Materials and Its Applications-2021 Shetkari Shikshan Prasarak Mandal Sangola's, Vidnyan Mahavidyalaya, Sangola, Tal-Sangola, Dist-Solapur, MH-413307, India
- 2 **S.V. Thakare** 2021 Facile synthesis of chitosan capped silver nanoparticles (Ag NPs) using silver effluent of goldsmith National conference on Advance trends in material science and applications

K.R.T. Arts, B.H. Commerce and A.M. Science (KTHM) College, Nashik-02

- 3 **S.V.Thakare**2021 Analysis of antibacterial and antifungal properties gold nanoparticles International virtual conference on Current scenario in chemical sciences Moolji Jaitha College, Jalgaon
- 4 **S.V.Thakare**2024 Facile synthesis and analysis of antibacterial and antifungal properties of Co<sub>3</sub>O<sub>4</sub> nanoparticles Rayat Shikshan Sanstha's Veer Wajekar Arts, Science and Commerce College Mahalan Vibhag, Phunde District Raigad

### Research projects

Sr. No.	Title of Project	Project Period	Name of Funding agency	Amount(inlaks)	Status
1	Isolation of Saponin from Datura Stramonium Plant & its interaction with Protein Ligand Interaction	2013-2015	UGC	1,600,000	Completed
2	Enzyme mimetic activity and molecular docking analysis of fly ash supported CeO <sub>2</sub> nanoparticles for biomedical applications	2024-2026	ASPIRE	2,70,000	Ongoing

### Books Publications

#### Book chapter

- 1 Advance in science and technology Ryan Publisher 978-81-952337-6-22021
- 2 Advanced Research in Chemistry AkiNik Publications 978-93-6135-777-0
- 3 Novelties in Schiff Bases IntechOpen 978-0-85014-073-6

### Refresher/Orientation/FDP/Trainings

Sr. No.	Name of Refresher/ Orientation/ FDP/ Trainings Programme attended	Organizing Institute	Period	Grade Or Completed
1	Orientation Course	V.P. Arts ,Science &Commerce College ,Baramati Dist-Pune 413133	25/06/2012 to 22/07/2012	A
2	Refresher Course	Dr . Babasaheb Ambedkar Marathwada University Aurangabad -431004	26/09/2014 to 18/10/2014	A
3	Refresher Course in Community Engagement	K.V.N. Naik Arts, Science and	23/07/2019 to 5/08/2019	B

		Commerce College Nashik		
4	Online Refresher Course in Chemistry for Higher Education	Swayam Arpit Online Course Certification organized by Sri Guru Tegh Bahadur Khalsa College, University of Delhi	1/09/2019 to 31/12/2019	A
5	Online 12 - Week Faculty Development Programme On Analytical Chemistry	NPTEL AICTE	20/09/2020 to 20/12/2020	A
6	Online Two - Week Faculty Development Programme (Equivalent to Refresher Course) On Chemistry - The Catalyst for Change	Teaching Learning Centre, Ramanujan College University of Delhi In collaboration with Department of Chemistry, Miranda House University of Delhi	14/07/2021 to 28/07/2021	A
7	Refresher	Teaching Learning Centre, Ramanujan College	7/02/2022 to 21/02/2022	A
8	Two-week refresher course On Chemistry in Indian Knowledge system	Doctor Harisingh Gaur Vishwavidyalaya Sagar M.P.	12/09/2023 to 25/09/2023	UGC

### Seminar/Conference/STTP Attended

- 1) State level one day workshop on "Nanotechnology" dated 21<sup>th</sup> Jan 2011 Organised by M.V.P's K.S.K.W. Arts Science and Commerce College CIDCO Nashik
- 2) ICMR sponsored Workshop on "Recent trends in Probiotic Development" dated 4<sup>th</sup> Feb 2011. Organised by College of Pharmacy Pravaranagar
- 3) Symposium on "Advances and opportunities in Chemical sciences dated 20<sup>th</sup> Oct 2012. M.V.P's K.S.K.W. Arts Science and Commerce College CIDCO Nashik
- 4) State level conference on "Scope, Opportunities and application of Chemical Sciences. Dated 2<sup>nd</sup> & 3<sup>rd</sup> march 2013. M.V.P's K.S.K.W. Arts Science and Commerce College CIDCO Nashik
- 5) National level seminar on "Chemistry for overall development of Human Being"

dated 16<sup>th</sup>&17<sup>th</sup> Jan 2015. M.V.P's K.S.K.W. Arts Science and Commerce College CIDCO Nashik

- 6) International level conference on “Challenges in Organic, Bio-organic and Medicinal chemistry” dated 2<sup>nd</sup> to 4<sup>th</sup> Feb 2017
- 7) State level seminar on application of material science 3<sup>rd</sup> February 2018 organized by HPT Arts, RYK Science College, Nashik
- 8) International conference on Advances in functional materials 12<sup>th</sup> and 13<sup>th</sup> January 2018 organized by KTHM College, Nashik
- 9) International e-Conference on Recent trends in nanomaterials in its applications 9<sup>th</sup> and 10<sup>th</sup> April 2021 organized by VidnyanMahavidyalaySangola
- 10) National conference on Advance trends in material science and applications 30<sup>th</sup> to 31<sup>st</sup> August 2021 organized by KTHM College, Nashik
- 11) International virtual conference on Current scenario in chemical sciences 6<sup>th</sup> and 7<sup>th</sup> September 2021 Moolji Jaitha College, Jalgaon
- 12) International e-Conference on Recent Trends in Nano-Materials and Its Applications 3<sup>rd</sup> and 4<sup>th</sup> April 2023 organized by Vidnyan Mahavidyalay Sangola
- 13) One day International Multi-disciplinary Conference on “Global Paradigm Shift: Initiatives of India in Science, Education, Technology, Business and Climate” 10<sup>th</sup> January 2024 organized by Veer Wajekar Arts, Science and Commerce College Mahalan Vibhag, Phunde District- Raigad

#### **Role in Curriculum/administrative Activity (College level committee)**

- 1) Coordinator of Janshikshan Sansthan
- 2) Coordinator of F.Y.B.Sc. exam form checking committee
- 3) Participated as a member of Criterion II in NAAC
- 4) Participated as a committee member of international level webinar organized by Department.
- 5) Participated as a member of F.Y.B.Sc. admission committee (ARC)
- 6) Participated in CAP for F.Y.B.Sc. Paper II
- 7) Coordinator of Chemiad exam
- 8) Internal Examiner for F.Y.B.Sc. Practical Exam
- 9) Educated villagers of Mahadevpur for water quality and performed river water quality analysis as part of NSS activity at KSKW College, Nashik
- 10) Lecture series for Environmental Science Students.

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

A handwritten signature in blue ink, appearing to read 'Thakare', with a horizontal line underneath it.

Dr. S.V. Thakare