

## Curriculum Vitae



**Dr. Mali Shivsharan Madhavrao**

M.Sc, PhD. (Chemistry), GATE

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**Personal Details:**

**Full Name:** Dr. Mali Shivsharan Madhavrao

**Mother's Name:** Ujwala Madhavrao Mali

**Gender:** Male

**Nationality:** Indian

**Date of Birth:** June. / 24 / 1987

**Category:** OBC

**Date of Appointment:** 10.02.2023

**College:** Shankarrao Patil Mahavidyalaya, Boom

**Name of Appointment:** Permanent

**Languages Known:** English, Hindi, Marathi

### ❖ Educational Qualification

Sr. No.	Course/Exam	Subject/Specialization/ Methods	College/Institute/ University	Percentage/CGPA/ Marks	Year of Passing
1.	B.Sc.	Chemistry, Microbiology and Zoology	Adarsh College Omerga	65.88%	2008
2.	M.Sc.	Chemistry	Department of Chemistry Dr. B. A. M. U. Aurangabad	59.08%	2010
3.	GATE	Chemical Science	IIT Bombay	Qualified	2013
4.	PhD	Chemistry	Department of Chemistry Dr. B. A. M. U. Aurangabad	Qualified	2020

## Research Publications

**Publications: 15, Citations: 287, h-index: 11, i-10 index-11.**

- 1) **Shivsharan M. Mali**, Parag P. Chavan, Yuvraj H. Navale, Vikas B. Patil, Bhaskar R. Sathe, Ultrasensitive and bifunctional ZnO nanoplates for an oxidative electrochemical and chemical sensor of NO<sub>2</sub> : implications towards environmental monitoring of the nitrite reaction RSC advances 8 (20), 11177-1118, 2018. **(Impact Factor 4.03)**
- 2) **Shivsharan M. Mali**, Shankar S. Narwade, Yuvraj H. Navale, Vikas B. Patil, Bhaskar R. Sathe, Facile synthesis of highly porous CuO nanoplates (NPs) for ultrasensitive and highly selective nitrogen dioxide/nitrite sensing, RSC advances 9 (10), 5742-5747, 2019 **(Impact Factor 4.03)**
- 3) **Shivsharan M. Mali**, Shankar S. Narwade, Yuvraj H. Navale, Sakharam B. Tayade, Renuka V. Digraskar, Vikas B. Patil, Avinash S. Kumbhar and Bhaskar R. Sathe Heterostructural CuO-ZnO Nanocomposites: A Highly Selective Chemical and Electrochemical NO<sub>2</sub> Sensor, ACS Omega DOI:10.1021/acsomega.9b01382. 2019. **(Impact Factor 4.132)**
- 4) Shankar S. Narwade, Balaji B. Mulik, **Shivsharan M. Mali**, Bhaskar R. Sathe, Silver nanoparticles sensitized C<sub>60</sub> (Ag@C<sub>60</sub> ) as efficient electrocatalysts for hydrazine oxidation: Implication for hydrogen generation reaction Applied Surface Science 396, 939-944, 2017. **(Impact Factor 6.707)**
- 5) Renuka, V. Digraskar, **Shivsharan M. Mali**, Sakharam B. Tayade, Anil V. Ghule, Bhaskar R. Sathe, Overall noble metal free Ni and Fe doped Cu<sub>2</sub>ZnSnS<sub>4</sub> (CZTS) bifunctional electrocatalytic systems for enhanced water splitting reactions, International Journal of Hydrogen Energy 44 (16), 8144-8155, 2019 **(Impact Factor 7.139)**
- 6) Shankar S. Narwade, **Shivsharan M. Mali**, Renuka V. Digraskar, Vijay S. Sapner, Bhaskar R. Sathe, Ni/NiO@ rGO as an efficient bifunctional electrocatalyst for enhanced overall water splitting reactions, International Journal of Hydrogen Energy 44 (49), 27001-27009, 2019. **(Impact Factor 7.139)**
- 7) Renuka V. Digraskar, Vijay. S Sapner, **Shivsharan M. Mali**, Shankar S. Narwade, Anil V. Ghule, Bhaskar R. Sathe, CZTS Decorated on Graphene Oxide as an Efficient Electrocatalyst for High-Performance Hydrogen Evolution Reaction, ACS Omega 4 (4), 7650-7657, 2019. **(Impact Factor 4.132)**

- 8) Renuka V. Digraskar, Vijay S. Sapner, Shankar S. Narwade, **Shivsharan M. Mali**, Anil V. Ghule, Bhaskar R. Sathe, Enhanced electrocatalytic hydrogen generation from water via cobalt-doped  $\text{Cu}_2\text{ZnSnS}_4$  nanoparticles, RSC advances 8 (36), 20341-20346, 2018. (**Impact Factor 4.03**)
- 9) Vijay S. Sapner, Parag P. Chavan, Renuka V. Digraskar, Shankar S Narwade, Balaji B. Mulik, **Shivsharan M. Mali**, Bhaskar R. Sathe, Tyramine Functionalized Graphene: Metal Free Electrochemical Non Enzymatic Biosensing of Hydrogen Peroxide, ChemElectroChem 5 (21), 3191-3197, 2018. (**Impact Factor 4.73**)
- 10) A. V Munde, B. B Mulik, P.P Chavan, V. S Sapner, S.S Narwade, **S. M. Mali**, B. R. Sathe, Electrocatalytic ethanol oxidation on cobalt–bismuth nanoparticle-decorated reduced graphene oxide (Co–Bi@ rGO): reaction pathway investigation toward direct ethanol fuel cells, The Journal of Physical Chemistry C 125 (4), 2345-2356, 2021.
- 11) S. S Narwade, **S. M. Mali**, V. S Sapner, B.R Sathe, Graphene oxide decorated with Rh nanospheres for electrocatalytic water splitting, ACS Applied Nano Materials 3 (12), 12288-12296, 2020.
- 12) S. S Narwade, **S. M. Mali**, B. R Sathe, Amine-functionalized multi-walled carbon nanotubes (EDA-MWCNTs) for electrochemical water splitting reactions, New Journal of Chemistry 45 (8), 3932-3939, 2021.
- 13) S. S Narwade, **S. M. Mali**, A. K Tapre, B. R Sathe, Enhanced electrocatalytic  $\text{H}_2\text{S}$  splitting on a multiwalled carbon nanotubes-graphene oxide nanocomposite, New Journal of Chemistry 45 (43), 20266-20271, 2021.
- 14) S. S Narwade, **S. M. Mali**, P. D Tanwade, P. P Chavan, A. V Munde, B.R Sathe, Highly efficient metal-free ethylenediamine-functionalized fullerene ( $\text{EDA}@ \text{C}_{60}$ ) electrocatalytic system for enhanced hydrogen generation from hydrazine hydrate, New Journal of Chemistry 46 (29), 14004-14009, 2022.
- 15) P. P Chavan, V. S Sapner, A. V Munde, **S. M. Mali**, B. R Sathe, Synthesis of Metal Free Nanoporous Carbon with Few Layer Graphene Electrocatalyst for Electrochemical  $\text{NO}_2^-$  Oxidation, ChemistrySelect 6 (37), 9847-9852, 2021.

### Conferences:

- 1) **Shivsharan M. Mali**, Poster presented in ‘**International Conference** on Advanced Rechargeable Batteries & Allied Materials’ held at C-MET, Pune, Maharashtra, India. (**March 8 to 10, 2017**).
- 2) **Shivsharan M. Mali**, Poster presented in ‘**International Conference** on Advances in Chemical Sciences (IC-ACS 2018)’ organized by Department of Chemistry, Shivaji University, Kolhapur, MS, India. (**Feb 1-3, 2018**).

- 3) . **Shivsharan M. Mali**, Poster presented in ‘**National Conference** on Ionic Liquids for Clean Energy and Environment (ILCEE 2015)’ held at the National Chemical Laboratory (CSIR-NCL), Pune (16-17 December, 2015)
- 4) **Shivsharan M. Mali**, Oral presentation in ‘**International Conference** on Electrochemistry in Advanced Materials, Corrosion and Radiopharmaceuticals’ (CEAMCR 2018), held at DAE Convention center, Anushaktinagar, Bhaba Atomic Research Center, Mumbai, India (15-17 February 2018)
- 5) **Shivsharan M. Mali**, Poster presentation in ‘**National Symposium** on Electrochemistry in Materials and Devices (NSEMD-2018), held at CSIR-Central Salt and Marine Chemicals Research Institute, Bhavnagar (28-29 September, 2018)
- 6) **Successfully completed a 4-Week Faculty Induction/Orientation Program for “Faculty in University/College/Institutes of Higher Education”** from 22 March to 20 April 2023, and obtained Grade ‘A’.

### **Declaration**

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I, **Dr. Shivsharan Madhavrao Mali** declare that the information given here is true in my best knowledge and I will responsible for any change.

You're sincerely,  
**Dr. Shivsharan M. Mali**