



# PRIYANK M. SHAH

PhD(R), M.Sc. GSET, MHSET, GATE

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## ABOUT ME

Goal-oriented chemistry professional with strong work ethics and a commitment to high-quality results. Detail-oriented and proactive, with experience in research and data handling. Adaptable and efficient in managing multiple tasks while maintaining accuracy. Dedicated to continuous learning and contributing to innovation and organizational success.



## EDUCATION

### PhD

Organic Chemistry

Department of Chemistry, Saurashtra University, Rajkot

January 2023 - Pursuing

### GSET

Chemical Sciences

2023

### MHSET

Chemical Sciences

2023

### GATE

Chemistry

2023

### M.Sc - 77%

Inorganic Chemistry

Department of Chemistry, Saurashtra University, Rajkot

June - 2019 to March - 2021

### B.Sc - 69%

Chemistry

H & H.B. Kotak Institute of Science, Rajkot

June - 2016 to March - 2019



## PHD THESIS TITLE

- Studies on Multi-step Synthesis of Biologically Active Heterocycles



## PUBLICATION - RESEARCH ARTICLES

- Unveiling Synthesis, Characterization, and Assessing Antimicrobial Efficacy of Quinoxaline-Based Oxazole Derivatives. *Russ J Bioorg Chem* 50, 1573–1582 (2024). <https://doi.org/10.1134/S1068162024040289>
- Co-Engineered Ag/CuO Nanoparticles Via *Artemisia pallens*: Catalytic, Antibacterial, and Molecular Docking Perspectives. *J Clust Sci* 36, 198 (2025). <https://doi.org/10.1007/s10876-025-02911-1>
- A DFT Investigation of Halogen-Substituted Indeno[1,2-b]quinoxaline-Oxazole Derivatives: Insights into Electronic Structure and Reactivity. *Russ J Org Chem* 61, 1549–1558 (2025). <https://doi.org/10.1134/S1070428025601888>
- Synergistic Insights: Synthesis, Characterization, Biological Evaluation, and Molecular Docking Studies of TMS-N<sub>3</sub> UGI-Adduct. *Russ J Org Chem* 60, 1277–1287 (2024). <https://doi.org/10.1134/S1070428024070200>
- ADME Profiling of Quinoxaline-Based Oxazole Derivatives for Drug-Likeness Assessment. *rev. and adv. in chem.* 15, 116–127 (2025). <https://doi.org/10.1134/S2634827625600161>
- Aucubin as a Natural Therapeutic and Optical Material: A Computational Study on Its Structural, Spectroscopic, and Photonic Properties. *Int J Quantum Chem*, 125: e70054. <https://doi.org/10.1002/qua.70054>



## CERTIFICATION OF INTERNATIONAL/NATIONAL CONFERENCES/ SEMINAR/ WEBINAR

- National workshop on Research and Scholastic aspects of an educator under NEP-2020, organized by Hari Vandana College, Rajkot, Gujarat. 16th December 2023.
- Poster presentation at the 28<sup>th</sup> ISCBC international conference at Marwadi University, Rajkot.
- Poster presentation at the 29<sup>th</sup> ISCBC international conference at BKNMU, Junagadh
- National workshop on Advanced Instrument Techniques - 2023
- Poster presentation at the 1<sup>st</sup> IICB international conference at Samarpan Science College, Gandhinagar
- Poster presentation at the NCES-2023 National conference at Bahauddin Science College, Junagadh
- IEEE R10 HTC-2023 International Conference & Workshop on Advances in Molecular Medicine held from 16th to 18th October 2023 at Marwadi University, Rajkot, India
- Skill-Based Hands-on Training Workshop on Analytical Technologies (HPLC and NMR): Theory to Applications organized by NMR Facility, Department of Chemistry, PDEU on February 13<sup>th</sup> - 14<sup>th</sup> 2026
- Poster presentation at the national science symposium at the Government Science College, Gariyadhar
- Webinar on Generative AI (GenAI) in Scientific Writing and Scholarly Publishing and ScienceDirect for ONOS at ONOS on Tuesday, 09 September. 2025 by Elsevier.



## ACHIEVEMENTS

- GSET-: Gujarat State Eligibility Test for Assistant Professor 2023 exam Qualified.
- MHSET-: Maharashtra State Eligibility Test for Assistant Professor 2023 Qualified.
- GATE-: Graduate Aptitude Test for Engineering 2026 Qualified
- Awarded by Gujarat government SHODH Fellowship

## EXPERTISE

- **Organic Synthesis & Characterization:** Extensive experience in multi-step organic synthesis, purification, and characterization of small molecules, intermediates, and final products using advanced analytical techniques such as NMR, Mass Spectrometry, LCMS, HRMS etc
- **Reaction Mechanisms & Optimization:** Proficient in designing, executing, optimizing and troubleshooting diverse organic reactions to achieve improved yield, selectivity and process efficiency
- **Nucleophilic Substitutions & Condensations:** SNAr reactions, reductive amination, aldol condensation
- **Functional Group Interconversion (FGI):** Esterification, hydrolysis, azide formation, halogenation, nitration
- **Purification Techniques:** Hands-on expertise in purification methods including crystallization, distillation, column chromatography.
- **Analytical & Problem-Solving Skills:** Strong ability to analyse complex reaction pathways, troubleshoot synthetic bottlenecks, and refine reaction conditions to improve yield, selectivity, and overall process efficiency
- **Analytical Instruments Handling:** Experienced in operating and maintaining analytical instruments such as an IR spectrometer and mass spectrometer.
- **Software Handling:** ChemDraw, M-Nova, Origin, Irsolution, Gaussian, Schrodinger (Meastro, Glide), Zotero, Mendeley

## LANGUAGES

- English
- Hindi
- Gujarati