

Dr. Prajesh S. Volvoikar

(Ph.D., CSIR-UGC-NET)

Assistant Professor (Chemistry)

School of Chemical Sciences

Goa University

Taleigao Plateau, Goa – 403206

Phone: +917972656165

Email: prajesh.volvoikar07@unigoa.ac.in;

prajesh.volvoikar07@gmail.com



Area of Research

Synthetic Organic Chemistry, (Heterocyclic Chemistry, Organic Methodologies, Cross coupling reactions, Cross dehydrogenative coupling) Medicinal Chemistry, Process development and optimization, Analytical Chemistry, Method Development, (HPLC, GC)

Professional Highlights:

- Assistant Professor in School of Chemical Sciences, Goa University, Goa since September 2020.
- Worked in Deccan Fine Chemicals Pvt. Ltd., as **Team Leader** leading a team of 9 members in Process development Lab. (July 2016 – September 2020)

Academic Qualifications:

Qualifications	University/ Board	Years	Grade/Class
Ph.D. (Chemistry)	Goa University	2017	Qualified
M. Sc- Organic Chemistry	Goa University	2010	Distinction
B. Sc- Chemistry	Goa University	2008	Distinction
HSS	Goa Board	2005	First Class
HSSCE	Goa Board	2003	Distinction

Academic Achievements:

- Cleared **CSIR-UGC NET** with **CSIR-JRF** (JUNE 2010)

Industrial Experiences:

- Worked in Deccan Fine Chemicals Pvt. Ltd., as Team Leader leading a team of 9 members in Process development Lab. Several products were developed in lab and scaled up from lab to pilot and commercial scale. Good knowledge of process optimization and process hazard studies. (July 2016 – September 2020)
- Syngenta Biosciences Pvt. Ltd.: As Research Associate in Research and technology lab; selected in campus recruitment (June 2010 – March 2011).

Instrumentations:

Basic and Operational Knowledge of Instrumental like Nuclear Magnetic Resonance (Bruker), High Pressure Liquid Chromatography (Shimadzu), Mass Spectrometer (Shimadzu), Flash Chromatography, Infrared Spectrometer (Shimadzu), Ultra-violet visible spectrometer.

Language adept in:

Speak, Read & Write: English, Hindi, Konkani and Marathi.

Publications in International journals:

- 1) *Eur. J. Org. Chem.* **2013**, 2172–2178, Prajesh S. **Volvoikar**, Prakash T. Parvatkar, and Santosh G. Tilve* entitled “*Tandem Reductive Cyclization–Dehydration Approach for the Synthesis of Cryptolepine Hydroiodide and Its Analogues*”
- 2) *Org. Lett.* **2016**, 18, 892-895, **Prajesh S. Volvoikar** and Santosh G. Tilve* entitled “*Iodine mediated Intramolecular Dehydrogenative Coupling: Synthesis of N-alkylindolo[3,2-c] and [2,3-c] quinoline Iodides*”
- 3) *Journal of Colloid and Interface Science* **2016**, 474, 58-67, Pratibha V. Bakre; Prajesh S. **Volvoikar**; Amit A. Vernekar and Santosh. G. Tilve* entitled “*Influence of acid chain length on the properties of TiO₂ prepared by sol-gel method and LC-MS studies of methylene blue photodegradation*”
- 4) *Synthesis*, **2018**, 50, 1113-1122, Sandesh T. Bugde, **Prajesh S. Volvoikar**, Santosh G. Tilve* entitled “*Protecting-Group-Directed Regio- and Stereoselective Oxymercuration–Demercuration: Synthesis of Piperidine Alkaloids Containing 1,2- and 1,3-Amino Alcohol Units*”

- 5) *Tetrahedron letters*, **2018**, 59, 1851- 1854, **Prajesh S. Volvoikar** and Santosh G. Tilve* entitled “*Tandem Wittig – Reductive annulation decarboxylation approach for the synthesis of indole and 2-substituted indoles*”
- 6) *Tetrahedron letters*, **2018**, 59, 2567-2569, **Prajesh S. Volvoikar** and Santosh G. Tilve* entitled “*A simple approach for the synthesis of azocine alkaloids: The total synthesis of megallanesine*”
- 7) *Chemistry Select*, **2019**, 4, 7187 –7189 **Prajesh S. Volvoikar**, Fedor I. Zubkov and Santosh G. Tilve* entitled “*A Concise Approach for the Synthesis of the ABCD Ring System of Alpinkidine*”

Research work presented in Conferences:

- 1) Presented poster entitled “*Synthesis of Indoloquinoline alkaloid Cryptolepine and Isocryptolepine using tandem reductive cyclisation and Intramolecular Dehydrogenative coupling*” at **10th Junior-National Organic Symposium Trust (J-NOST)** Conference for Research Scholars in IIT-Madras (4th - 6th December 2014).
- 2) Presented poster entitled “*Synthetic studies of Indoloquinoline alkaloids Cryptolepine and Isocryptolepine*” at **New Frontiers in Chemistry-from Fundamentals to Applications** in BITS Pilani, Goa (18th - 19th December 2015).
- 3) Presented poster entitled “*Intramolecular Dehydrogenative Cross Coupling for the Synthesis of N-methyl Isocryptolepine iodides*” at **Transcending Frontiers in Organic Chemistry** in CSIR-NIIST, Trivandrum (9th - 11th October 2014).