

SudhamoyeeKataky

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Current Profile:

Synthetic organic chemist with over 5-6 years of practical experience. Taking into consideration the importance of heterocycles from pharmaceuticals to agrochemicals my PhD work focuses on arylation and alkylation of heterocyclic scaffolds. Design of metal nanoparticles immobilized on bio-based derived support is another interesting aspect from my PhD work. Currently looking for an opportunity in academic and coaching institutes. Has a track record of publications in peer-reviewed journals. Able to work effectively with a team and proactively communicate findings and ideas to drive project improvements.

KeyExpertise:

- ✓ Designing of reaction methodology & extensive optimization
- ✓ Purification methods
- ✓ Experimental analysis (NMR,HRMS,FTIR etc.)
- ✓ Multi-step synthesis
- ✓ Knowledge on current academic research
- ✓ Method learning
- ✓ Manuscript writing
- ✓ PowerPoint presentation
- ✓ Teamwork & Collaboration

Academic Qualification:

Tezpur University, India

May, 2024

PhD, Organic Chemistry

Research advisor: Prof. Ashim Jyoti Thakur

Research Topic: **"Exploration of Synthetic Methodologies for Carbon-Carbon and Carbon-Heteroatom (N, O, S) Bond Formation Reaction Catalysed by Cu & Pd"**

Tezpur University, India

2014-2016

Master of Science, Chemistry

Research advisor: Prof. Ashim J Thakur

Research topic: “Acid Activated Montmorillonite K10 Clay Catalysed Regioselective Benzylolation of Naphthols”

Degree	Year of passing	Institution	Board/university	Percentage/CGPA
HSLC	2008	HHMI, Jorhat, Assam	SEBA	78
HSSLC	2010	Luit Valley Academy, Jorhat, Assam	AHSEC	69.6
B.Sc. (Chemistry Major)	2014	Bahona College, Jorhat, Assam	Dibrugarh University	82
M.Sc. (Organic Chemistry)	2016	Tezpur University, Assam	Tezpur University	80.4
Ph.D. (Organic Chemistry)	2024	Tezpur University, Assam	Tezpur University	NA

Work Experience:

1. A total of 2 years as “Adhoc faculty” in the Department of Chemistry, **J.B.College**, Jorhat; Department of Chemistry, **JIST Jorhat** and Department of Chemistry, **Bahona College**, Jorhat.
2. As a Project Assistant in **CSIR-NEIST**, Jorhat for a period of six months Project entitled “Speciality Materials based on Engineered Clays (SPECS).”
3. B.Sc summer internship in **Tocklai experimental research station**, Tocklai, Jorhat

Publications:

1. **Kataky, S.**, Sarma, B., and Thakur, A.J. Preparation of 2,5-Disubstituted Tetrazoles using a Copper-Catalysed Regioselective Direct Coupling of Tetrazoles with Free NH Groups and Boronic Acid Derivatives. *ChemistrySelect*, 8(42), e202301843, 2023

2. **Kataky, S.**, Boruah, P., and Thakur, A. J. Lewis Acid Catalysed Chemoselective Amination of Alcohols Using Heterocyclic Thiones: An Avenue to Thiotetrazole Derivatives. *European Journal of Organic Chemistry*, e202300515, 2023.
3. Bhuyan, P., Bhorali, P., **Kataky, S.**, Bharali, S. J., Guha, A. K., and Saikia, L. ZnCl₂ catalyzed cascade conjugative alkynylation/6-endo-dig cyclisation of N,N-dimethyl barbituric acid derived alkenes under ultrasonic irradiation: An improved, base & column-free access to pyrano[2,3-*d*]pyrimidine-2,4(3*H*,5*H*)-diones. *Sustainable Chemistry and Pharmacy*, 30:100852, 2022.
4. **Kataky, S.**, Rakshit, A., Ahmed, S. P., Kalita, B. K., Sarma, B., & Thakur, A. J. Ligand-free CuO nanoparticles catalyzed S-arylation of heterocyclic thiols using aryl halides. *Applied Organometallic Chemistry*, e7518.

Presentations:

1. National Seminar On "Research at The Interface of Chemical, Biological And Material Sciences" organised by Department of Chemical Sciences in collaboration with Students' Science Council, Tezpur University, March 10, 2023. **Participation: Poster.**
2. International Conference On "Interface of Chemistry, Material Chemistry and Pharmaceutical Sciences" organised by Department of Chemistry, Royal School of Pharmacy, Royal Global university and Department of Chemistry, Cotton University, November 10, 2023. **Participation: Oral.**

Academic Achievements and Awards:

- Research & Innovation Grant, Tezpur University, 2021.
- Qualified SLET (State Level Eligibility Test) examination in 2016.
- Ranked "First" in College in B.Sc. Final Examination, Dibrugarh University, 2014.
- Anundoram Barooah Award awarded by the Government of Assam, India to first divisionholders in High School Leaving Examination, 2008.

Co-curricular activities:

- I was involved in a variety of works during my **school days** as well as college days such as **dancing, cultural events** etc.
- I was an active participant in various **sporting events** starting from March past, racing, badminton etc.

Strengths:

1. I am **hardworking with good management** skills which were positively showcased during my Prefect-ship in hostel.
2. During an institutional trip, I was asked to lead the students which brought a moment of recognition to my **leadership** quality and also highlighted my **responsible** behaviour.
3. I am **confident and optimistic** towards my goal.
4. I am **flexible** with any given situation so as to maximise the benefits out of it.
5. I am very much **compassionate** towards the vulnerable section of the society.

Declaration:

I hereby declare that all the details given above are true to the best of my knowledge and belief.

Place: Jorhat

Yours Sincerely

Sudhamoyee Katakya