Anmol

☑ cyz228613@iitd.ac.in

https://sites.google.com/view/anmoliitd/

RESEARCH INTEREST

Modelling chemical reactions using electronic structure calculations.

Development of machine learning potentials for condensed phase reactive systems.

EDUCATION

Indian Institute of Technology Delhi

Ph.D. (Computational Chemistry)
Advisor Prof.Tarak Karmakar

2023-Present

CGPA: 9.75/10.00

Indian Institute of Technology Delhi

M.Sc. (Chemistry) 2020-2022

Advisor Prof. Anil J. Elias CGPA: 9.15/10.00

Rajdhani College, University of Delhi

B.Sc. Honors (Chemistry) 2017-2020

CGPA: 8.78/10.00

PUBLICATIONS

- Davas, D. S.; Gopalakrishnan, D. K.; Kumar, S.; Anmol; Karmakar, T.; Vaitla, J. Visible Light-Promoted Regioselective Benzannulation of Vinyl Sulfoxonium Ylides with Ynoates. *JACS Au* 2024, 4 (3), 1073–1080.
- Yadav, R.; Das, B.; Singh, A.; Anmol; Sharma, A.; Majumder, C.; Kundu, S. Bicyclic (Alkyl)(Amino)
 Carbene (BICAAC)-Supported Phosphinidenes. Dalton Transactions 2023, 52 (45), 16680–16687.
- Jain, S.; Anmol; Sharma, R.; Karmakar, T.; Yadav, M. R. Cu(I)/N,N-Imine Ligand Catalyzed C(Sp3)–C(Sp) Coupling of Alkyl Bromides with Alkynes: Scope and Mechanistic Investigation. *Organic Letters* 2023, 25 (29), 5437–5442.
- Tyagi, A.; Mondal, S.; Anmol; Tiwari, V.; Karmakar, T.; Kundu, S. Understanding Cyclic(Alkyl)(Amino)
 Carbene–Copper Complex Catalysed N–H and O–H Bond Addition to Electron Deficient Olefins. *Chem. Commun.*, 2023, 59, 110–113.

Confernces & Workshops

 Quantum2 on machine learning enhanced sampling (Organised by CECAM in hybrid format attended online).

KEY SKILLS

Programming Language

Python, Bash

Software

Gaussian, CP2K, LAMMPS, GROMACS, Plumed, DeepMD, VMD