



Shashi Bairagi Atla, Ph.D.

Designation : Assistant Professor

Department : Department of Basic Science and Humanities
(JOINED THE INSTITUTE IN 2023)

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RESEARCH INTERESTS

- ✓ ELECTRO-ORGANIC SYNTHESIS
- ✓ GREEN CHEMISTRY/ ENVIRONMENTAL CHEMISTRY
- ✓ PHOTO-CATALYSIS (ADVANCED OXIDATION PROCESSES)
- ✓ MATERIALS DESIGN FOR CATALYSIS AND THEIR REACTIVITY FOR ORGANIC TRANSFORMATIONS
- ✓ REACTION MECHANISM OF CATALYTIC REACTIONS
- ✓ PROCESS DEVELOPMENT, SCALE-UP AND OPTIMIZATION FOR COMMERCIAL APPLICATIONS
- ✓ DFT CALCULATIONS USING GAUSSIAN SOFTWARE

Academic Qualifications

POST- DOC, National Chung Cheng University (Chiayi) Taiwan

Ph. D. (Chemistry), National Chemical Laboratory (CSIR), Pune University, India

M. Sc. (Chemistry) Berhampur University, Odisha

Specialization: Organic reactions and its mechanism

Teaching Experience/Industrial Experience/Research Experience

- ✓ Associate Professor, School of Engineering and Technology, CMR University, Bengaluru

PUBLICATIONS

JOURNAL & CONFERENCES

- [1]. **Shashi B. Atla**, Electro-organic conversions: A review on electrocatalysis of Heck reactions, Current Research in Green and Sustainable Chemistry 5 (2022) 100313

- [2]. **Shashi B. Atla**, Catalytic activity of 2-phenyl pyridine palladacycle and its structural studies using DFT calculations, *Research Journal of chemistry and environment* 25 (9) (2021)
- [3]. **Shashi B. Atla**, Wun-Rong Lin, Ting-Che Chien, Min-Jen Tseng, Jwu-Ching Shue, Chien-Cheng Chen, Chien-Yen Chen, Fabrication of Fe₃O₄/ZnO magnetite core shell and its application in photocatalysis using sunlight, *Materials Chemistry and Physics* 216 (2018) 380–38
- [4]. **Shashi B. Atla**, Chien-Yen Chen, James Yang, Chien-Cheng Chen, An-Cheng Sun, Kao-Hung Lin, Jyoti Prakash Maity, Wei Pan, Kai-Chien Cheng Foam fractionation of crystal growth for nanotechnology, *Chemical Engineering Journal* 184 (2012) 333– 341
- [5]. **Shashi B Atla**; Chien-Cheng Chen; chien-yen chen; Pin-Yun Lin; Wei Pan; Kai-Chien Cheng; Yuh Ming Huang; Young-Fo Chang; Jiin-Shuh, Visible light response of Ag⁺/TiO₂-Ti₂O₃ prepared by photodeposition under foam fractionation, *Journal of Photochemistry and Photobiology A: Chemistry* 236 (2012) 1-8
- [6]. **Shashi B. Atla**, Ashutosh A Kelkar, Vedavati G Puranik, Wolfgang Bensch, Raghunath V Chaudhari, NC Palladacycles in the Heck Arylation of Ethylene: Synthesis, Structure and their Reactivity, *Journal of Organometallics Chemistry*, 694 (2009) 683-690
- [7]. **Shashi B. Atla**, Ashutosh A Kelkar, Raghunath V Chaudhari, Hydroesterification of 2-Vinyl-6-methoxynaphthalene using Palladium Complexes containing Chelating Nitrogen Ligands, *Journal of Molecular Catalysis A: Chemical*, 307 (2009) 134-141
- [8]. **Shashi B. Atla**, Kalpendra B Rajurkar, Ashutosh A Kelkar, Raghunath V Chaudhari, Kinetics for the arylation of 3-bromo-benzophenone with n-butylacrylate using monomeric NC palladacycle catalyst, *Journal of Molecular Catalysis A: Chemical*, 309 (2009) 111-116