

CURRICULUM VITAE

PERSONAL INFORMATION

Name : Pinaki Bhusan De
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Mobile No. : +91-7002778139
Date of Birth : 26th May, 1991
Nationality : Indian
Languages Known : English, Hindi, Bengali

ACADEMIC AND RESEARCH EXPERIENCE

- **2020-present:** Postdoctoral researcher, RIKEN Center for Sustainable Resource Science(Supervisor: Dr. Laurean Ilies)
- **2014-20: Ph.D** from Department of Chemistry, Indian Institute of Technology Guwahati, India (Supervisor: Prof. Tharmalingam Punniyamurthy)
Thesis Title: “*Studies Towards C-C, C-N and C-O Bond Formation via C-H Functionalization: Expedient Synthesis of Functionalized Heterocycles*”
- **2011-13: MSc** (Organic Chemistry) from Burdwan University, West Bengal, India (Supervisor: Dr. Inul Ansary) Project Title: “*Copper-Catalyzed Synthesis of Nitrogen- and Oxygen-Containing Heterocyclic Compounds and Reaction Mechanism*”
- 2008-2011 **B.Sc.** (Chemistry) from Burdwan University, India

ACHIEVEMENT

- Qualified Graduate Aptitude Test in Engineering (**GATE**) (Rank- **376**) organized by Indian Institute of Technology Roorkee, India

TEACHING EXPERIENCE

- **2013-14: Guest Lecturer** at the Department of Chemistry, Burdwan Raj College, Burdwan University, India (For B.Sc. students)
- **2015-18: Teaching Assistant** at the Indian Institute of Technology Guwahati, Guwahati-781039, India (For B. Tech and M.Sc. students)

PUBLICATIONS

1. **P. B. De**, S. Atta, S. Pradhan, S. Banerjee, T. A. Shah and T. Punniyamurthy*, “Cp*Co(III)-Catalyzed C7-Alkylation of Indolines with Aziridines: Merging C-H Activation and Ring Opening.” *J. Org. Chem.* **2020**, *85*, 4785.
2. **P. B. De**, S. Pradhan, S. Banerjee and T. Punniyamurthy*, “Expedient Cobalt(II)-Catalyzed Site-Selective C7-Arylation of Indolines with Arylboronic Acids” *Chem. Commun.* **2018**, *54*, 2494.
3. **P. B. De**, S. Banerjee, S. Pradhan and T. Punniyamurthy*, “Ru(II)-Catalyzed C7-Acyloxylation of Indolines with Carboxylic Acids” *Org. Biomol. Chem.* **2018**, *16*, 5889.
4. **P. B. De**, S. Pradhan, T. A. Shah and T. Punniyamurthy*, “Iodine-Mediated Intramolecular C-H Amination of Benzimidazoles: A Metal-Free Route to Dihydroimidazobenzimidazoles” *Synthesis* **2018**, *50*, 3224.
5. **P. B. De**, S. Pradhan and T. Punniyamurthy*, “Stereoselective Copper-Catalyzed Cross-Coupling of Aziridines with Benzimidazoles via Nucleophilic Ring Opening and C(sp²)-H Functionalization” *J. Org. Chem.* **2017**, *82*, 3183.

6. S. Pradhan, **P. B. De** and T. Punniyamurthy*, “Weak Coordination Guided Regioselective Direct Redox-Neutral C-4 Allylation of Indoles with Morita-Baylis-Hillman Adducts” *Org. Lett.* **2019**, *21*, 9898.
7. T. A. Shah, **P. B. De**, S. Pradhan, S. Banerjee and T. Punniyamurthy*, “Cp*Co(III)-Catalyzed Regioselective C2 Amidation of Indoles with Acyl Azides” *J. Org. Chem.* **2019**, *84*, 16278.
8. T. A. Shah, **P. B. De**, S. Pradhan, S. Banerjee and T. Punniyamurthy*, “Exploiting Strained Rings in Chelation Guided C-H Functionalization: Integration of C-H Activation with Ring Cleavage” *Chem. Asian. J.* **2019**, *14*, 4520.
9. M. Mishra, **P. B. De**, S. Pradhan and T. Punniyamurthy*, “Stereospecific Copper(II)-Catalyzed Tandem Ring Opening/Oxidative Alkylation of Donor-Acceptor Cyclopropanes with Hydrazones: Synthesis of Tetrahydropyridazines” *J. Org. Chem.* **2019**, *84*, 10901.
10. S. Banerjee, **P. B. De**, S. Pradhan, T. A. Shah and T. Punniyamurthy*, “Ru(II)-Catalysed Regioselective C-N Bond Formation of Indolines and Carbazole with Acyl Azides” *Eur. J. Org. Chem.* **2019**, *7*, 1677.
11. T. A. Shah, **P. B. De**, S. Pradhan and T. Punniyamurthy*, “Transition-Metal-Catalyzed Site-Selective C7-Functionalization of Indoles: Advancement and Future Prospects” *Chem. Commun.* **2019**, *55*, 572.
12. M. Kannan, **P. B. De**, S. Pradhan and T. Punniyamurthy*, “Chiral Fe-Dendrimer Catalyzed Domino Michael and Aldol Reactions of Chalcones with 1,4-Dithiane-2,5-diol” *Chem. Select.* **2018**, *3*, 859.
13. R. Bag, **P. B. De**, S. Pradhan and T. Punniyamurthy*, “Recent Advances in Radical Dioxygenation of Olefins” *Eur. J. Org. Chem.* **2017**, 5424. [Special issue featuring articles by emerging investigators from India]
14. S. Pradhan, **P. B. De** and T. Punniyamurthy*, “Copper(II)-Mediated Chelation-Assisted Regioselective N-Naphthylation of Indoles, Pyrazoles and Pyrrole Through Dehydrogenative Cross-Coupling” *J. Org. Chem.* **2017**, *82*, 4883.
15. S. Pradhan, M. Mishra, **P. B. De**, S. Banerjee and T. Punniyamurthy*, “Weak Coordination Enabled Switchable C4-Alkenylation and Alkylation of Indoles with Allyl Alcohols” *Org. Lett.* **2020**, *22*, 1720.
16. S. Kumar, S. Pradhan, S. Roy, **P. B. De** and T. Punniyamurthy*, “Iron-Catalyzed Regioselective Remote C(sp²)-H Carboxylation of Naphthyl and Quinoline Amides” *J. Org. Chem.* **2019**, *84*, 10481.
17. S. Pradhan, S. Roy, S. Banerjee, **P. B. De** and T. Punniyamurthy*, “Oxidative C-H/N-H Annulation of Aromatic Amides with Dialkyl Malonates: Access to Isoindolinones and Dihydrobenzoindoles” *J. Org. Chem.* **2020**, *85*, 5741.

CONFERENCES (SELECTED)

1. **P. B. De**, S. Pradhan, S. Banerjee and T. Punniyamurthy, “Expedient Cobalt(II)-Catalyzed Site-Selective C7-Arylation of Indolines with Boronic Acids” ORGANIX, Tezpur University, Tezpur, Dec 20-21, 2018.
2. **P. B. De**, S. Pradhan and T. Punniyamurthy, “Copper-Catalyzed Regioselective Ring Opening of Aziridines/Aerobic Oxidative C-H Amination: A Facile Rote to Imidazobenzimidazoles” XIII J-NOST, Banaras Hindu University, Varanasi, Nov 9-12, 2017.
3. **P. B. De**, S. Pradhan, S. Banerjee and T. Punniyamurthy, “Ligand-Accelerated Expedient Cobalt(II)-Catalyzed Regio-Selective C7-Arylation of Indolines with Boronic Acids” ICCHD, University of Calcutta and Heritage Institute of Technology, Kolkata, Jan 8-10, 2018.
4. **P. B. De**, S. Pradhan, and T. Punniyamurthy, “Stereo-invertive Copper-Catalyzed Cross-Coupling of Aziridines with Benzimidazoles via Nucleophilic Ring Opening and C(sp²)-H Functionalization” Research Conclave, IIT Guwahati, March 16-19th 2017.

5. **P. B. De**, S. Pradhan and T. Punniyamurthy, “Copper-catalyzed stereospecific ring opening of aziridines/aerobic oxidative C-H amination: a facile route to imidazobenzimidazoles” 20th CRSI National Symposium in Chemistry, Gauhati University, Feb 2-5th, 2017.
6. **P. B. De**, S. Pradhan, S. Banerjee and T. Punniyamurthy, “Copper-catalyzed regioselective ring opening of aziridines/aerobic oxidative C-H amination: a facile route to imidazobenzimidazoles” 21st International Conference on Organic Synthesis (ICOS 21), IIT Bombay, Dec 11-16th, 2016.