

## Annexure I

### List of Publications:

#### Thesis Work:

- [1] **Sarmah, M.**, Dewan, A., Thakur, A.J., and Bora, U. Urea as mild and efficient additive for palladium catalyzed Sonogashira cross coupling reaction. *Tetrahedron Letters*, 57:914–916, 2016.
- [2] **Sarmah, M.**, Dewan, A., Mondal, M., Thakur, A.J., and Bora, U. Analysis of the water extract of waste papaya bark ash and its implications as an *in situ* base in the ligand-free recyclable Suzuki–Miyaura coupling reaction. *RSC Advances*, 6:28981-28985, 2016.
- [3] Dewan, A., **Sarmah, M.**, Bora, U., and Thakur, A.J. In situ generation of palladium NPs using agro waste and their use as catalyst for copper-, amine- and ligand-free Sonogashira reaction. *Applied Organometallic Chemistry*, 31:e3646, 2017.
- [4] **Sarmah, M.**, Dewan, A., Mondal, M., Thakur, A.J., and Bora, U. Extraction of base from Eichhorniacrassipes and its implication in palladium-catalyzed Suzuki cross-coupling reaction. *Chemistry Select*, 2:7091-7095, 2017.
- [5] **Sarmah, M.**, Mondal, M., Gohain, S.B., and Bora, U. Gallic acid-derived palladium(0) NPs as *in situ*-formed catalyst for Sonogashira cross-coupling reaction in ethanol under open air. *Catalysis Communications*, 90:31-34, 2017.
- [6] Dewan, A., **Sarmah, M.**, Bharali, P., Thakur, A.J., and Bora, U. Greener biogenic approach for the synthesis of palladium NPs using papaya peel: An eco-friendly catalyst for C-C coupling reaction. *ACS Omega*, 3:5327-5335, 2018.
- [7] **Sarmah, M.**, Neog, A.B., Boruah, P.K., Das, M.R., Bharali, P., and Bora, U. Effect of Substrates on Catalytic Activity of Biogenic Palladium Nanoparticles in C–C Cross-Coupling Reactions. *ACS Omega*, 4:3329-3340, 2019.

#### Other Works:

- [1] Dewan, A., **Sarmah, M.**, Bora, U., and Thakur, A.J. A green protocol for ligand, copper and base free Sonogashira cross-coupling reaction. *Tetrahedron Letters*, 57:3760-3763, 2016.
- [2] Das, S. K., **Sarmah, M.**, and Bora, U. An ambient temperature Sonogashira cross-coupling protocol using 4-aminobenzoic acid as promoter under copper and amine free conditions. *Tetrahedron Letters*, 58:2094-2097, 2017.

#### Review article:

- [1] **Sarmah, M.**, Mondal, M., and Bora, U. Agro-Waste extract based solvents: emergence of novel green solvent for the design of sustainable processes in catalysis and organic chemistry. *Chemistry Select*, 2:5180-5188, 2017.

## Annexure II

### List of Conference/Workshops attended:

- [1] Attended Regional Training Programme Cum Workshop on ShodhGanga and Anti-Plagiarism Software held at Tezpur University, November, 2014.
- [2] Poster Presentation in Contemporary Developments in Chemical Sciences 2015 held at Tezpur University, November, 2015.
- [3] Poster Presentation in National Symposium on Natural Products: Prospects & Perspectives held at NEIST Jorhat, March, 2016.
- [4] Attended Science Academies Lecture Workshop On Emerging Trends in Chemical Sciences, Tezpur University, November, 2016.
- [5] Poster Presentation in International Conference on Emerging Trends in Nanomaterials Science and Technology held at NIT Nagaland, January, 2017.
- [6] Poster Presentation in 20<sup>th</sup> CRSI National Symposium in Chemistry held at Gauhati University, February, 2017.
- [7] Attended Workshop on Nuclear Magnetic Resonance organized by JEOL INDIA PVT. LTD at Tezpur University, October, 2017.
- [8] Poster Presentation in International conference on Emerging Trends in Chemical Sciences held at Dibrugarh University, February 2018.
- [9] Oral Presentation in Organix-An International conference in Chemistry on held at Tezpur University, December 2018