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APPENDIX A

List of Research Publications (Related to thesis work)

1.Humic acid: A Biodegradable Organocatalyst for Solvent-free Synthesis of Bis(indolyl)methanes, Bis(pyrazolyl)methanes, Bis-coumarins and Bis-Lawsones, **Bijeta Mitra** and Pranab Ghosh*, ***ChemistrySelect***, 2021, **6**, 68-81.

2. β-Cyclodextrin: a supramolecular catalyst for metal-free approach towards the synthesis of 2-amino-4,6-diphenylnicotinonitriles and 2,3-dihydroquinazolin-4(1*H*)-one in water, **Bijeta Mitra**, Gyan Chandra Pariyar and Pranab Ghosh*, ***RSC Adv***., 2021, **11**, 1271-1281.

3. Glycerol: A Benign Solvent-Assisted Metal-Free One-Pot Multi-Component Synthesis of 4*H*-Thiopyran and Thioamides from Easily Accessible Precursors, **Bijeta Mitra**, Gyan Chandra Pariyar and Pranab Ghosh*, ***ChemistrySelect***, 2019, **4**, 5476-5483.

4. One pot three-component synthesis of 5-substituted 1*H*-tetrazole from aldehyde, **Bijeta Mitra**, Suvodip Mukherjee, Gyan Chandra Pariyar and Pranab Ghosh*, ***Tetrahedron Lett***., 2018, **59**, 1385-1389.

5. *p*-TsOH mediated solvent and metal catalyst free synthesis of nitriles from aldehydes *via* Schmidt reaction, **Bijeta Mitra**, Gyan Chandra Pariyar, Rabindranath Singha and Pranab Ghosh*, ***Tetrahedron Lett***., 2017, **58**, 2298-2301.

Research Publications (Not related to thesis)

1. Ethyl Lactate: an efficient green mediator for transition metal free synthesis of symmetric and unsymmetric azobenzenes, Gyan Chandra Pariyar, Tandra Kundu, **Bijeta Mitra**, Suvodip Mukherjee and Pranab Ghosh*, ***ChemistrySelect***, 2020, **5**, 9781-9786.

2. Ascorbic Acid as an Efficient Organocatalyst for the Synthesis of 2-Substituted-2,3-dihydroquinazolin-4(1*H*)-one and 2-Substituted Quinazolin-4(3*H*)-one in Water, Gyan Chandra Pariyar, **Bijeta Mitra**, Suvodip Mukherjee and Pranab Ghosh*, ***ChemistrySelect***, 2020, **5**, 104-108.

3. 2-Iodo benzoic acid: An unconventional precursor for the one pot multi-component synthesis of quinoxaline using organo Cu (II) catalyst, Bittu Saha, **Bijeta Mitra**, Dhiraj Brahmin, Biswajit Sinha and Pranab Ghosh*, ***Tetrahedron Lett***., 2018, **59**, 3657-3663.

Book Chapters (Not related to thesis)

1. Chapter 6: Copper catalysis for Quinoxaline and Pyrazine. "Copper in *N*-Heterocyclic Chemistry", **Bijeta Mitra** and Pranab Ghosh*, ***Elsevier***, 2020, 221-248.

2. Chapter 10: Environmentally Benign Organic solvent: A Green Approach. "Green Organic Reactios" **Bijeta Mitra**, Gyan Chandra Pariyar and Pranab Ghosh*, ***Springer*** (In press after proof correction).

APPENDIX B

Poster Presentations

1. "Catalyst free synthesis of Thioamides from easily available precursors", **Bijeta Mitra** and Pranab Ghosh* in the International Seminar on "*RECENT TRENDS IN CHEMISTRY (RTC-2019)*" organized by DEPARTMENT OF CHEMISTRY, P.D WOMEN'S COLLEGE, JALPAIGURI, WEST BENGAL in association with INDIAN CHEMICAL SOCIETY, KOLKATA, January 03, 2019.
2. "Catalyst free one-pot multi-component synthesis of 4*H*-thiopyran", **Bijeta Mitra** and Pranab Ghosh* in the International Seminar on "*Frontiers in Chemistry 2018*" organized by DEPARTMENT OF CHEMISTRY, UNIVERSITY OF NORTH BENGAL & CRSI NORTH BENGAL LOCAL CHAPTER, India, August 27, 2018.
3. "Novel protocol for one pot synthesis of 5-substituted 1*H*-tetrazole from aldehyde", **Bijeta Mitra** and Pranab Ghosh* in the National Seminar on "*Frontiers in Chemistry 2017-18*" organized by DEPARTMENT OF CHEMISTRY, UNIVERSITY OF NORTH BENGAL, West Bengal (UGC) on September 14, 2017.
4. "$FeCl_3$-SILICA: A Green Approach for the Synthesis of Nitriles from Oximes" Gyan Chandra Pariyar, **Bijeta Mitra**, Rabindranath Singha, Hridoydip Ranjan Dasgupta and Pranab Ghosh* in the "*19th CRSI National Symposium in Chemistry (CRSI NSC–19)*", organized by Department of Chemistry, University of North Bengal, Darjeeling, India, July 14-16, 2016.

Oral Presentation

"*p*-TsOH Mediated Synthesis of Nitriles from Aldehydes *via* Schmidt Reaction", **Bijeta Mitra** and Pranab Ghosh* in the National Seminar on "*Frontiers in Chemistry 2017*" organized by DEPARTMENT OF CHEMISTRY, UNIVERSITY OF NORTH BENGAL, West Bengal (UGC-SAP) on February 20-21, 2017.