

APPENDICES

Appendices

List of publications

1. **Sarma, P.**, Borah, R. Designing of supported organocatalysts from carboxylic acids for the Mannich-type synthesis of β -amino carbonyl compounds, 2015 (communicated).
2. **Sarma, P.**, Borah, R. Studies on $-\text{SO}_3\text{H}$ functionalized Brønsted acidic imidazolium ionic liquids (ILs) for one pot synthesis of 2-styrylquinolines via Friedländer annulation followed by Knoevenagel condensation, 2015 (communicated).
3. **Sarma, P.**, Dutta, A.K., Gogoi, P., Sarma, B., Borah, R. 3-Methyl-1-sulfoimidazolium ionic liquids as recyclable medium for efficient synthesis of quinoline derivatives by Friedländer annulations, *Monatshefte für Chemie* **146** (1), 173--180, 2015.
4. Gogoi, P., Dutta, A.K., **Sarma, P.**, Borah, R. Development of Brønsted–Lewis acidic solid catalytic system of 3-methyl-1-sulfonic acid imidazolium transition metal chlorides for the preparation of *bis*(indolyl)methanes, *Applied Catalysis A General* **492**, 133--139, 2015.
5. **Sarma, P.**, Gogoi, P., Borah, R. Nitrogen Bound Polymers as Heterogeneous Basic Catalysts for Diastereoselective Henry Reaction in Aqueous Medium, *Current Organocatalysis* **1** (1), 40--44, 2014.
6. Dutta, P., Dutta, A.K., **Sarma, P.**, Borah, R. Dual nature of polyethylene glycol under microwave irradiation for the clean synthesis of oximes, *Monatshefte für Chemie* **145** (3), 505--508, 2014.
7. Borah, R., Dutta, A.K., **Sarma, P.**, Dutta, C., Sarma, B. Synthesis of *anti*-2,3-dihydro-1,2,3-trisubstituted-*1H*-naphth [1,2-*e*][1,3]oxazine derivatives via multicomponent approach, *RSC Advances* **4** (21), 10912--10917, 2014.
8. Dutta, P., **Sarma, P.**, Borah, R. Investigation of efficient synthesis of 1,8-dioxo-octahydroxanthene derivatives under solvent-free grinding method, *Current Chemistry Letters* **2** (4), 159--166, 2013.

9. Dutta, P., **Sarma, P.**, Borah, R. P4VP-H₂SO₄ catalyzed chemoselective protection of aldehydes to acylal along with deprotection reactions, *Synthetic Communications* **43** (10), 1378--1386, 2013.

Papers/Posters presented in conferences

1. **P. Sarma**, R. Borah "3-Methyl-1-Sulfonic Imidazolium Ionic Liquids (ILs) as Recyclable Medium for Efficient Synthesis of Quinoline Derivatives by Friedländer Annulation" Presented as poster in "REACH-2015, An International Symposium on Recent Advances in Chemistry", 3-5th March, 2015, UGC-Center for Advanced Studies in Chemistry, Department of Chemistry, NEHU, Shillong.
2. **P. Sarma**, R. Borah "Efficient synthesis of β -amino carbonyl derivatives using solid acid catalyst" Presented as poster in "20th National Magnetic Resonance Society Symposium Cum Annual Meeting", 2-5th Feb, 2014, Dept. of Chemical Sciences, Tezpur University. Tezpur.
3. A.K. Dutta, **P. Sarma**, R. Borah "Synthesis and characterization of anti-2,3-dihydro-1,2,3-trisubstituted-1H-naphth [1,2-e][1,3] oxazine derivatives" Presented as poster in "20th National Magnetic Resonance Society Symposium Cum Annual Meeting", 2-5th Feb, 2014, Dept. of Chemical Sciences, Tezpur University. Tezpur.
4. **P. Sarma**, R. Borah "Synthesis of 2-nitroalcohol in aqueous medium catalyzed by nitrogen bound basic polymer", Presented as poster in "15th CRSI National Symposium in Chemistry", 1-3rd February, 2013, Dept. of Chemistry, Faculty of Science Banaras Hindu University, Varanasi.
5. P. Dutta, **P. Sarma**, R. Borah "Polymer supported acid as reusable catalyst for chemo-selective protection of aldehydes to acylals along with deprotection reactions" Presented as poster in "National Conference on Chemistry, Chemical Technology and Society", 11-12th November, 2011, Dept. of Chemical Sciences, Tezpur University, Tezpur.

6. **P. Sarma**, P. Dutta, R. Borah “Solvent-less synthesis of β -amino carbonyl compounds” Presented as poster in “National Conference on Chemistry, Chemical Technology and Society”, 11-12th November, 2011, Dept. of Chemical Sciences, Tezpur University, Tezpur.
7. P. Dutta, **P. Sarma**, R. Borah “Investigation of One Pot Synthesis of Dibenzoxanthene Derivatives” Presented as poster in “International Symposium on Chemistry and Complexity”, 6th -8th Dec, 2011, IACS, Kolkata.