

List of Publications

1. **Saikia, S.**, Gogoi, P., Dutta, A. K., Sarma, P. and Borah, R. Design of multifaceted acidic 1, 3-disulfoimidazolium chlorometallate ionic systems as heterogeneous catalysts for the preparation of β -amino carbonyl compounds. *Journal of Molecular Catalysis A: Chemical*, 416:63-72, 2016.
2. **Saikia, S.**, Gogoi, P. and Borah, R. 1, 3-Disulfoimidazolium chloronickellate immobilized HZSM-5 framework as visible-light-induced heterogeneous photocatalyst for advanced oxidation process. *New Journal of Chemistry*, 42(5):3867-3877, 2018.
3. **Saikia, S.**, Puri, K. and Borah, R. Supported dual-acidic 1, 3-disulfoimidazolium chlorozincate@HZSM-5 as a promising heterogeneous catalyst for synthesis of indole derivatives. *Applied Organometallic Chemistry*, 33(3):1-12, 2019.
4. Gogoi, P., **Saikia, S.**, Dutta, A. K. and Borah, R., Acidic and basic functionalized ionic liquid systems for advanced synthesis of five and six membered nitrogenates heterocycles. *Advances in Organic Synthesis*, Volume 10, page 139, 2018.
5. Gogoi, P., Dutta, A. K., **Saikia, S.** and Borah, R. Heterogenized hybrid catalyst of 1-sulfonic acid-3-methyl imidazolium ferric chloride over NaY zeolite for one-pot synthesis of 2-amino-4-arylpyrimidine derivatives: A viable approach. *Applied Catalysis A: General*, 523:321-331, 2016.
6. Sarma, P., **Saikia, S.** and Borah, R. Design of supported organocatalysts from carboxylic acids for the Mannich-type synthesis of β -amino carbonyl compounds. *Synthetic Communications*, 45(24):2810-2822, 2015.
7. Sarma, P., **Saikia, S.** and Borah, R. Studies on SO_3H functionalized Brønsted acidic imidazolium ionic liquids (ILs) for one-pot, two-step synthesis of 2-styrylquinolines. *Synthetic Communications*, 46(14):1187-1196, 2016.
8. Dutta, A. K., Gogoi, P., **Saikia, S.** and Borah, R. N, N-disulfo-1, 1, 3, 3-tetramethylguanidinium carboxylate ionic liquids as reusable homogeneous catalysts for multicomponent synthesis of tetrahydrobenzo [a] xanthene and tetrahydrobenzo [a] acridine derivatives. *Journal of Molecular Liquids*, 225:585-591, 2017.

List of Conferences/Workshops

1. Presented poster entitled “*Synthesis and characterization of 2-Methyl-1, 3-disulfoimidazolium carboxylate ionic liquids for the preparation of β - amino carbonyl compounds*” at UGC-SAP National Seminar “Emerging Trends in Chemical Sciences-2015” on 5th & 6th November organized by Department of Chemistry, Gauhati University, India.
2. Presented poster entitled “*Synthesis and characterization of multifaceted imidazolium chlorometallates as acidic solid material*” at UGC-SAP National Conference on Contemporary Developments in Chemical Sciences-2015 on 23rd & 24th November organized by Department of Chemical Sciences, Tezpur University, India.
3. Presented poster entitled “*Design of novel N, N-sulfonic tetramethylguanidinium carboxylate ionic liquids for the synthesis of tetrahydrobenzo[a]xanthenes and tetrahydrobenzo[a]acridines*” at National Symposium on Natural Products: Prospects & Perspectives, 2016 on 21st & 22nd March organized by CSIR-North East Institute of Science & Technology, India.
4. Presented poster entitled “*Attractive aspects of 1, 3-disulfoimidazolium chloronickellate supported HZSM-5 composites: Tuned catalysts for visible light induced fenton type degradation of methylene blue*” at 20th CRSI National Symposium in Chemistry, 2017 from 3rd to 5th February organized by Department of Chemistry, Gauhati University, India.
5. Presented oral entitled “*Exploration of 1, 3-disulfoimidazolium chloronickellate/HZSM-5 materials and their potential use as heterogeneous catalyst for the synthesis of indole derivatives*” at UGC sponsored National Seminar on Recent Trends in Environment Responsive Chemical Processes (RTERCP-2017) on 22nd & 23rd September organized by Department of Chemistry, D. R. College, Assam, India.
6. Presented oral entitled “*Synthesis, characterization and catalytic uses of complex metal halide based ionic salt material in organic reactions*” at National Organic Symposium Trust XIV J-NOST Conference-2018 for Research Scholars from 28th November to 1st December organized by CSIR-Indian Institute of Chemical Technology, Hyderabad.
7. Presented poster entitled “*Polyoxometalate based ionic salt [m₃][PW₁₂O₄₀] as heterogeneous catalyst for nitration of aromatics*” at OrganiX-2018: An

List of Conferences/Workshops

- International Conference in Chemistry on 20th & 21st December organized by Department of Chemical Sciences, Tezpur University, India.
8. Attended **Regional Training Programme Cum Workshop on ShodhGanga and Anti-Plagiarism Software** on 28th November, 2014 organized by Central Library, Tezpur University in association with INFLIBNET Centre, Gandhinagar, India.
 9. Attended **Science Academic Lecture Workshop on “Emerging Trends in Chemical Sciences”** from 11th-13th November, 2016 organized by Department of Chemical Sciences, Tezpur University, India.
 10. Attended **Workshop on “Nuclear Magnetic Resonance (NMR)”** on 13th October, 2017 organized by JEOL INDIA PVT. LTD. in collaboration with Department of Chemical Sciences, Tezpur University, India.