List of Publications: Thesis Work

- [1] Das, S., Dutta, T., and Borah, R. Comparative study of the physical and electrochemical behavior of direct N-SO₃H functionalized 1,3-disulfo-2-alkylimidazolium trifluoroacetate ionic liquids in molecular solvents. *Journal of Molecular Liquids*, 289:111099, 2019.
- [2] Das, S., Porashar, B., Saikia, S., and Borah, R. Brönsted Acidic Ionic Liquids Catalysed Sequential Michael-like Addition of Indole with Chalcones via Claisen-Schmidt Condensation. *ChemistrySelect*, 5:3041-3047, 2020.
- [3] Das, S., Kashyap, N., Kalita, S., Bora, D. B., and Borah, R. Comparative study on the physicochemical properties of N-SO₃H functionalized ammonium and imidazolium ionic liquids. *Journal of Molecular Liquids*, 390:123041, 2023.
- [4] Das, S., Paul, S., Kashyap, N., Saikia, P., and Borah, R. N– SO₃H Functionalised Brønsted Acidic Ionic Liquid Catalysed Sequential One-Pot Synthesis of 2-Amino-3-Cyanopyridines via Claisen-Schmidt Condensation Under Solvent-free Condition. *ChemistrySelect*, 9:e202304103, 2024.

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- [1] Kashyap, N., Das, S., and Borah, R. Solvent responsive self-separation behaviour of Brønsted acidic ionic liquid-polyoxometalate hybrid catalysts on H₂O₂ mediated oxidation of alcohols. *Polyhedron*, 196:114993, 2021.
- [2] Kalita, S., Kashyap, N., Bora, D.B., Das, S. and Borah, R. Investigation of N, N'-Disulfopiperazinium Chlorometallates of Fe (III), Ni (II) and Co (II) as Hybrid Catalysts for the Synthesis of 1, 2-Dihydroquinazoline Derivatives. *ChemistrySelect*, 8:e202204533, 2023.
- [3] Boruah, K., Rohman, S., Guha, A. K., Das, S., and Borah, R. Investigation of physical and electrochemical behaviour of N-sulfonic acid functionalized cyclicammonium based Brönsted acidic ionic liquids in molecular solvents. *Journal of Ionic Liquids*, 3:100062, 2023.
- [4] Das, S. and Borah, R. Ionic Liquids: An Ever-evolving Discipline. *Journal of Intellectuals*, 1:51-67, 2021.

- [5] Kashyap, N., Kalita, S., Bora, D.B., Das, S., Yashmin, F., Guha, A.K., and Borah, R. A mechanistic study on solar energized degradation of herbicide into value-added product using-SO3H functionalized ionic liquid-polyoxometalate based heterogeneous catalyst in aqueous medium. *Journal of Molecular Structure*, 1311:138372, 2024.
- [6] Kashyap, N., Das, S., Paul, S., Purkayastha, S.K., Guha, A.K., and Borah, R. Study of the catalytic activity of methylene-bridged dicationic–SO₃H-functionalized imidazolium phosphomolybdate hybrids for the one-pot sequential synthesis of 3-substituted indoles. *New Journal of Chemistry*, 2024

List of Publications: Book Chapters

- [1] Das, S., Kashyap, N., Kalita, S., Bora, D. B., and Borah, R. A brief insight into the physicochemical properties of room-temperature acidic ionic liquids and their catalytic applications in CC bond formation reactions. In *Advances in Physical Organic Chemistry*, volume 54, pages 1-98. ISBN: 978-0-12-821820-4. Elsevier, 2020.
- [2] Kashyap, N., Das, S., and Borah, R. A brief insight into the polyoxometalate based organic-inorganic hybrid systems and their catalytic uses in oxidation and acid catalyzed organic reactions. In *Research Trends in Chemical Sciences*, volume 10, pages 167-192. ISBN: 978-93-90420-17-9. AkiNik Publications, 2020.

List of Conferences and Symposiums Attended

Title of Conference	Year	Institution	Mode of Presentation (Oral/Poster)
Recent Trends in Environment Responsive Chemical Processes (RTERCP-2017)	2017	Debraj Roy College, Golaghat	Oral (National)
International Conference on "Recent Trends in Material Science and Technology" (ICMST-2018)	2018	Jointly by ISRO & Material Research Society of India, Thiruvanathapuram	Poster (International)
ORGANIX-2018: An International Conference in Chemistry	2018	Tezpur University, Tezpur	Poster (International)
International Conference on "Emerging Trends in Chemical Sciences" (ETCS-2020)	2020	Guwahati University, Guwahati	Oral (International)
National Seminar on "Research at the Interface of Chemical, Biological and Material Sciences"	2023	Tezpur University, Tezpur	Poster (National)

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- Jin-Heng Li, Chen-Liang Deng, Ye-Xiang Xie.
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 Miyaura Cross-Couplings of Aryl Chlorides
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Synthesis of 4-(Substituted phenyl)chromans", Chinese Journal of Chemistry, 09/2007

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