

List of Publications:

In International referred journals

- [1] **Sharma, H.**, Kalita, B.K., Pathak, D., and Sarma, B. Low Molecular Weight Supramolecular Gels as a Crystallization Matrix. *Crystal Growth & Design*, 24 (1): 17-37, 2024
- [2] **Sharma, H.**, Pathak, D., Tanwar, N., Tiwari, P., and Sarma, B. Translating Solid-Phase Conformational Memory in the Prophecy of Multi-stimuli Responsive Low Molecular Weight Gels. *Chemistry A European Journal*, DOI: 10.1002/chem.202403467195
- [3] Pathak, D., Kalita, B.K., **Sharma, H.**, Biswakarma, N., Deka, R.C., and Sarma, B. One-Pot N-Alkylation of Amines over Ni(II) Embedded Reusable Porous Organic Polymer via Borrowing Hydrogen Strategy. *ChemCatChem*, 16 (8), 2024
- [4] Pathak, D., Khatioda, R., **Sharma, H.**, Guha, A.K., Saikia, L., and Sarma, B. Endorsing Organic Porous Polymers in Regioselective and Unusual Oxidative C=C Bond Cleavage of Styrenes into Aldehydes and Anaerobic Benzyl Alcohol Oxidation via Hydride Elimination. *Applied Materials & Interfaces*, 13 (13): 15353-15365, 2021
- [5] Pathak, D., Kalita, B.K., Sarmah, A., **Sharma, H.**, Bora, B., Goswami, T.K., and Sarma, B. Metal-free reusable hollow-spherical triazine microporous organic polymer supported quinolines synthesis via hydrogen evolution. *Green Chemistry*, 19 (25): 7642-7652, 2023

Book Chapter & Journal

- [1] Kalita, B.K., Pathak, D., **Sharma, H.**, and Sarma, B. Surfacing hybrid medicines of bioactive molecules: a solid states formulation approach. In Rahman, A., editor, *Studies in Natural Products Chemistry*, Elseiver, 2023 . ISBN: 978-0-323-91253-2.
- [2] **Sharma, H.**, Pathak, D., and Sarma, B. Supramolecular Organogels. *The Chemical Axis*, 18(2): 1-6, 2019.

Academic Conferences (as abstract):

- [1] **Sharma, H.**, and Sarma, B. ‘Multi-Stimuli Responsive Low Molecular Weight Gel (LMWG)’, International Conference on Current Trends of Research in Chemistry Towards Sustainability, Health Care and Forensic Analysis (SusChemHeca-2024), March 14-15, 2024, Tezpur University, Assam.
- [2] **Sharma, H.**, and Sarma, B. ‘Bis-Urea Based Low Molecular Weight Organogel (LMWOG) Designed for Pharmaceutical Crystallization’, International Conference on Emerging Trends in Biochemistry (ICETB-2024), March 11-13, 2024, Nalbari College, Assam.

Workshops and Seminars:

- [1] Participated in “INUP-i2i Hands-on Training on Nanofabrication and Characterization Techniques” organised by CeNSE, IISc Bangalore, 21-31st March, 2022.
- [2] Participated in “INUP-i2i Familiarization Workshop on Nanofabrication Technologies (Online mode)”, organised by CeNSE, IISc Bangalore, 20-22nd December, 2021.
- [3] Attended National level Seminar titled “Science for Sustainable Development” organized by the Department of Chemistry, B.Borooah College, Guwahati in collaboration with Assam Science Technology and Environment Council on 25-26th September, 2020.

Projects:

- [1] Executed a 06-month project “Directed Crystal Nucleation of Drug compounds on Functionalized 2D surface and gels” at INUP-CENSE, IISc Bangalore, 15th January-15th July, 2023.
- [2] Executed a 06-month project “Heterogeneous Functionalized Templates Preparation for Crystallization” at INUP-IITG, Centre of Nanotechnology, IIT Guwahati, 15th July, 2022 to 13th January, 2023.