



Showcasing research from Professor Moloy Sarkar's laboratory, School of Chemical Science, National Institute of Science Education and Research, HBNI, Bhubaneswar, Odisha, India

Probing lithium-ion induced micro-environment changes in pyrrolidinium-based mono-cationic and di-cationic ionic liquids

This work reveals that Li^+ ions induce markedly greater nano-structural disruption in monocationic ionic liquids, while dicationic systems retain structural integrity due to their robust framework. These findings are key for engineering stable, high-performance electrolytes for next-generation lithium-ion batteries.

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