

Special Issue

Advancing Sustainable Chemical Processes Through the Design of Ionic Liquids

Message from the Guest Editors

Ionic Liquids (ILs) represent a pivotal advancement in sustainable chemical processes due to their unique properties, such as low volatility, tunable structure, and high thermal stability. As industries face increasing pressure to adopt environmentally friendly practices, the need for innovative solutions in process engineering has never been greater. This Special Issue aims to gather cutting-edge research that demonstrates the transformative potential of ILs in driving sustainability within the chemical industry. Emphasis is placed on how ILs enhance process efficiency, reduce environmental impact, and provide innovative solutions in catalysis, separation, and biomass conversion. Topics of interest for publication include, but are not limited to, the synthesis and characterization of new ILs, their role in catalysis and separation processes, their application in biomass processing, and their integration into industrial-scale green chemistry initiatives. Additionally, the Special Issue will address the environmental, economic, and safety aspects associated with the use of ILs.

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