

Special Issue

Ionic Liquids: Green Solvents for the Future

Message from the Guest Editors

By the end of the 21 century, ionic liquids (ILs) had started to attract significant interest from the scientific community due to their potential applications and as alternatives to organic solvents. These substances are normally composed of organic cations and anions, so that just by swapping the ions that compose the substance it is possible to change the physical properties of the IL. This classification has been challenged because of the toxicity of some of the cations and anions used in their preparation, among other reasons. However, their employment in the development of new environmentally friendly applications (e.g., CO₂ capture or the development of more efficient batteries) is reinforcing the role of ILs as green solvents.

The current Special Issue aims to provide a view of the most recent advances in the development and employment of ionic liquids. The topics of interest include but are not limited to the synthesis of these substances, their physical and chemical characterization, and their application.

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