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Application of Ionic Liquids in Separation Science

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Message from the Guest Editors

Due to their unique properties, such as low volatility, tunability and relatively easy recyclability, ionic liquids have been deeply studied in the past few years as alternative solvents. They have been used in a wide variety of applications, namely, organic synthesis, electrochemistry, catalysis for clean technology, polymerization processes and separations. The extraction and fractionation of different molecules, from simple solutions up to complex matrices, in gas, liquid and solid state, have been studied more effectively over the last several years. In fact, these methods have led to a higher interest in using these alternative solvents in gas separation membranes and in the selective separation of rare earth elements. Nonetheless, the purification of different types of biomolecules is still of high importance.

Therefore, this Special Issue aims to publish new research in the separation field, using ionic liquids as alternative solvents. Here, researchers are invited to share their original work within the scope of all types of separations with ionic liquids.



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Special Issue



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Message from the Editor-in-Chief

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Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).

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