

Special Issue

Green Processes Based on Ionic Liquids for Advanced Chemical Technologies

Message from the Guest Editors

This Special Issue, “Green Processes Based on Ionic Liquids for Advanced Chemical Technologies”, aims to showcase cutting-edge research on ionic liquid (IL)-based processes that contribute to sustainable and efficient chemical technologies. We welcome original research articles, reviews, and theoretical studies focusing on IL applications in extraction and separation techniques, catalytic transformations, biomass processing, waste valorization, energy storage and conversion, environmental remediation, and the synthesis of advanced materials. Contributions addressing theoretical and computational insights, process optimization, scale-up strategies, and techno-economic or life-cycle assessments are also encouraged. By gathering a diverse range of studies, this Special Issue will serve as a platform for advancing the understanding and practical implementation of IL-based processes, fostering innovation in green chemistry and sustainable engineering.

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You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

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