

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.

Guest Editors

Dr. Ana Cristino

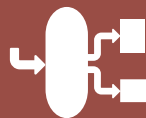
Faculdade de Ciências, Universidade de Lisboa, Campo Grande, 1749-016 Lisboa, Portugal

Dr. Rui Galhano dos Santos

CERENA, Instituto Superior Técnico, Universidade de Lisboa, Av. Rovisco Pais, 1049-001 Lisboa, Portugal

Deadline for manuscript submissions

15 April 2025



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.1



mdpi.com/si/216241

Processes
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.1



[mdpi.com/journal/
processes](https://mdpi.com/journal/processes)



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q2 (Chemical Engineering (miscellaneous))