Special Issue

Ionic Liquids and Deep Eutectic Solvents in Green Chemistry

Message from the Guest Editors

In numerous industrial processes, significant amounts of volatile and flammable organic solvents are utilized in various reaction systems and separation steps, heavily influencing both the environmental and economic performance of these processes. Consequently, an expanding field of research in the realm of green chemistry focuses on creating new, environmentally friendly, and adaptable solvents that satisfy both technological and economic requirements.

Among the proposed solvents, ionic liquids (ILs) and deep eutectic solvents (DESs) have garnered significant attention due to their negligible vapor pressure, high thermal stability, and tunable properties, making them ideal for various applications. A state-of-the-art analysis shows their consistent growth in the fields of chemical synthesis and catalysis, extraction and separation processes, electrochemistry and energy storage, food technology, and life sciences.

This Special Issue will delve into the latest research and developments in IL- and DES-assisted technologies, evaluating their potential to transform industrial processes and meet future environmental and economic challenges.

Guest Editors

Prof. Dr. Marina Cvjetko Bubalo

Prof. Dr. Ivana Radojcic Redovnikovic

Dr. Ana Jurinjak Tušek

Deadline for manuscript submissions

31 August 2025

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/210823

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules

MDPI

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/journal/molecules

MDPI

About the Journal

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).