



Ionic-Liquid-Based Materials and Solutions for Energy Applications

Guest Editors:

Dr. Daniela M. Correia

Centre of Chemistry, University of
Minho, 4710-057 Braga, Portugal

Dr. Carlos Miguel Costa

Centre of Physics, University of
Minho, 4710-057 Braga, Portugal

**Dr. Senentxu Lanceros-
Mendez**

BCMaterials, Basque Center for
Materials, Applications and
Nanostructures, UPV/EHU
Science Park, 48940 Leioa, Spain

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

Ionic liquids (ILs) are being increasingly investigated for energy applications due of their physicochemical properties that include suitable chemical and electrochemical stability, non-flammability, negligible vapor pressure, and high ionic conductivity. There is a large variety of possible ILs available, their properties depending on the choice of the cation and anion, with relevant properties for energy applications being density, vapor pressures, viscosity, conductivity, diffusion, and thermal stability, among others.

In this context, this Special Issue aims to contribute to the recent scientific and engineering studies focusing on the improvement of ionic-liquid-based materials and solutions for energy applications with special focus on the characteristics of materials and devices at a molecular level, which determine the final properties and functionality.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI