

Special Issue

Ionic Liquid Electrolytes for Energy Storage Devices

Message from the Guest Editor

Ionic liquids are salts in the liquid state that have unique properties such as low volatility, excellent electrochemical stability, and low toxicity. Recently, ionic liquid electrolytes demonstrated excellent suitability for their application in rechargeable batteries and supercapacitors. Uncommon phenomena such as lithium negative transference, superionicity, interfacial electrofreezing, etc. take place with these electrolytes, making it crucial to understand the rules for better electrolyte design even beyond ionic liquids themselves. We are pleased to invite you to contribute your research to the Special Issue “Ionic Liquid Electrolytes for Energy Storage Devices” of MDPI Materials (IF:3.1 (2023)).

This Special Issue aims to communicate recent discoveries related to the applications of ionic liquids in energy storage. In this Special Issue, original research articles, perspectives, and reviews are welcome.

Research areas include (but are not limited to) : synthesis of ionic liquids, physical–chemical properties of ionic liquids, batteries and supercapacitors with ionic liquid electrolytes, etc.

We look forward to receiving your contribution.

Guest Editor

Dr. Dmitrii A. Rakov

1. School of Chemical Engineering, The University of Adelaide, Adelaide, SA 5005, Australia
2. Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Brisbane, QLD 4067, Australia

Deadline for manuscript submissions

20 September 2025



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/213634

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

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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