

Special Issue

Advances in Processing, Manufacturing, and Integration of Li-Metal All-Solid-State Batteries

Message from the Guest Editors

This Special Issue aims to explore recent experimental advances in understanding the electrolyte/anode interface and its importance in the development of energy-dense batteries, as well as advances in processing and manufacturing capabilities towards the widespread adoption of this technology. The topics of interest include, but are not limited to: - Processing and manufacturing of sulfide, oxide, and polymer solid electrolyte materials and their compatibility with Li metal architectures. -New strategies to manufacture solid-state electrolytes and solid-state batteries. -Processing and manufacturing of Li metal anodes. -Advanced characterization of the electrolyte/anode interface. -In situ and operando methodologies for Li-metal solid-state batteries -Li dendrite mitigation strategies. - Performance of battery architectures relying on Li-metal anodes -Implementation of high-throughput synthesis and characterization techniques with accelerated tools in solid-state battery research.

Guest Editors

Dr. Juan Carlos Gonzalez-Rosillo

Department of Advanced Materials, Catalonia Institute for Energy Research (IREC), 08930 Barcelona, Spain

Dr. Moran Balaish

1. Department of Chemistry, Technical University of Munich, 85748 Garching, Germany
2. TUMint Energy Research GmbH, Lichtenbergstr. 4, 85747 Garching, Germany

Deadline for manuscript submissions

closed (20 March 2024)



Batteries

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 6.6



mdpi.com/si/162409

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

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





Batteries

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 6.6



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



About the Journal

Message from the Editor-in-Chief

Take the opportunity to publish your original scientific work or a review paper concerning battery materials, battery technology or battery application within this new open access journal. Along with material science, the journal also addresses engineering and multidisciplinary research topics, such as cell and system design or storage system integration. Publishing proffers visibility for the benefit of other experts and facilitates discussion of the research results within the field. You are invited to publish your work, read published papers and to participate in topical discussions.

Editor-in-Chief

Prof. Dr. Karim Zaghib

Department of Chemical and Materials Engineering, Concordia
University, Montréal, QC H3G 1M8, Canada

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), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Electrochemistry) / CiteScore - Q1 (Electrical and Electronic Engineering)