Special Issue

High-Energy Materials and Electrode/Electrolyte Interphase Tailoring for Sustainable Batteries

Message from the Guest Editors

The Research Topic seeks the latest research and development in electrode/electrolyte interphase and advanced materials for sustainable batteries. We encourage the submission of all types of articles, including Original Research, Perspective, Review and mini-Reviews on the following topics:

- High-energy cathode/anode materials
- Operando/in situ/ex situ characterization methods
- Advanced electrolyte and additives
- Solid-state batteries
- Next generation batteries, such as Lithium metal batteries, Li-S batteries, Li-O2 batteries,
- Beyond Lithium battery, such as Na, Al Ca, Mg, and Zn batteries.
- High-throughput screening of battery electrodes and electrolytes
- Battery recycling and life-cycle analysis

Guest Editors

Dr. Wengao Zhao

Institute of Nanotechnology, Karlsruhe Institute of Technology (KIT), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany

Dr. Peng Li

Department of Chemical Engineering, Shandong University of Technology, Zibo 255000, China

Deadline for manuscript submissions

closed (30 May 2025)

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

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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

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