

IMPACT FACTOR 4.0



an Open Access Journal by MDPI

Solid State Batteries: From Materials Research to Design and Applications

Guest Editors:

Prof. Dr. Chunwen Sun

School of Chemical and Environmental Engineering, China University of Mining & Technology (Beijing), Beijing 100083, China

Prof. Dr. Sigi Shi

School of Materials Science and Engineering, Shanghai University, Shanghai 200444, China

Dr. Yongjie Zhao

School of Materials Science and Engineering, Beijing Institute of Technology, Beijing 100081, China

Deadline for manuscript submissions:

closed (31 December 2023)

Message from the Guest Editors

Dear Colleagues,

Solid-state batteries (SIB) with solid electrolytes are considered to be the new generation of devices for energy storage and electric vehicle applications. Is it possible to boost the performance and reduce the cost of solid-state batteries through the rational design of materials, developing key technologies for improving interfacial properties as well as the innovation of manufacturing processes? This Special Issue will cover the key topics in various solid-state batteries.

Topics of interest include, but are not limited to:

- Electrode materials for novel solid-state batteries, including positive and negative electrodes;
- Solid electrolytes;
- Interfacial optimization;
- Cell design;
- Electrochemical test method;
- Cell failure analysis;
- Performance lifetime and degradation studies.

Prof. Dr. Chunwen Sun Prof. Dr. Siqi Shi Dr. Yongjie Zhao Guest Editors











an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Andreas Jossen

Institute for Electrical Energy Storage Technology (EES), Technical University München (TUM), Arcisstrasse 21, 80333 Munich, Germany

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.

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 - Q2 (Electrochemistry)

Contact Us