batteries

an Open Access Journal by MDPI

IMPACT FACTOR 4.6

CITESCORE 4.0

Advances in the Interfacial Study of Electrodes for Secondary Batteries

Guest Editors:

Dr. Milan K. Sadan
Department of Chemical and Biological Engineering, University of Sheffield, Sheffield S1 3JD, UK

Prof. Dr. Fujun Li
College of Chemistry, Nankai University, Tianjin 300071, China

Dr. Linqin Mu
School for Engineering of Matter, Transport and Energy, Arizona State University, Tempe, AZ 85281, USA

Deadline for manuscript submissions:
closed (25 August 2023)

Message from the Guest Editors

Dear Colleagues,

Secondary battery chemistries are evolving at a fast pace, and different chemistries lead to the formation of new interphases. The stability and components in the electrode–electrolyte interphase are the key parameters that determine the performance indices of batteries. Investigation of such interphases and co-relation with performance indices are highly essential for the transition of cutting-edge research into transitional technologies.

This Special Issue is intended to highlight advances in the evolution of interfaces and different interphase components in lithium and post-lithium-ion secondary batteries. We expect articles and reviews on the in-depth analysis of such interphases using in operando, in situ, and ex situ studies and investigations on the significance of interfacial engineering for secondary batteries.

Topics of interest include but are not limited to:

- Cathode electrolyte interphase;
- Solid electrolyte interphase;
- Solid electrolytes (SEs) (sulfides, oxides, etc.);
- Polymer electrolytes;
- Ether-based electrolytes;
- Ex situ analysis of interphase;
- In situ analysis of interphase;
- In operando studies on interphase.

batteries

an Open Access Journal by MDPI

IMPACT FACTOR 4.6

CITESCORE 4.0

Editor-in-Chief

Prof. Dr. Karim Zaghib
Department of Chemical and Materials Engineering, Concordia University, Montréal, QC H3G 1M8, Canada

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 (Electrical and Electronic Engineering)

Contact Us

Batteries Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/batteries
batteries@mdpi.com
𝕏@batteriesmdpi