Special Issue

Advances in the Interfacial Study of Electrodes for Secondary Batteries

Message from the Guest Editors

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.

Guest Editors

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Deadline for manuscript submissions

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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.

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