Special Issue

Novel Electrolytes for Batteries and Supercapacitors

Message from the Guest Editor

Batteries and supercapacitors are essential electrochemical energy storage systems (ESSs) in a wide range of fields, such as portable electronic devices, electric vehicles, smart grids, and aerospace. Electrolyte is a key part of batteries and supercapacitors, which has a significant impact on the electrochemical properties of the devices. Understanding the relationship of the electrochemical performance of devices and the electrolyte properties is of great significance due to its importance in creating higher-performance batteries and supercapacitors. In this Special issue, we are looking for contributions helping to introduce recent advances and breakthroughs in electrolyte design for batteries and supercapacitors, addressing the correlation between battery performance, solvation structure, and solidelectrolyte-interphase chemistry, as well as novel electrolytes for batteries and supercapacitors to enable the enlargement of the electrochemical window, increase the ion conductivities and safety, improve the environmental friendliness, and reduce the cost.

Guest Editor

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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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