



Novel Electrolytes for Batteries and Supercapacitors

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Message from the Guest Editor

Dear Colleagues,

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 solid-electrolyte-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.





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