Special Issue

Review of Electrode Materials and Electrolyte for Batteries

Message from the Guest Editor

Due to the intermittent nature of clean energy, a mismatch between energy supply and demand arises, which seriously restricts the large-scale application of renewable energy. To improve the utilization efficiency of clean energy, research on high-performance energy storage systems has become an urgent need. High-performance electrode materials are key to improving the electrochemical performance of batteries. Understanding the relationships between electrochemical performance, structure, surface, and the defects of electrode materials is of great significance to the design of electrode materials. This Special Issue aims to publish high-quality review papers in *Batteries* which summarize the recent progress related to electrode materials and electrolytes for batteries. The scope of this Special Issue includes, but is not limited to: the synthesis of electrode materials, electrolyte regulation mechanisms, and electrochemical enhancement mechanisms. We also welcome reviews involving the simulation, optimization, and design of integrated devices and flexible energy devices.

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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