

Special Issue

Recent Development in Battery Materials for Energy Storage Systems & Automotive Applications

Message from the Guest Editors

Recently, renewable energy and electric vehicles have become more competitive with conventional energy technologies and vehicles that rely on fossil fuel. However, to enable these clean energy technologies, there is an urgent need to develop new-generation energy storage systems. Among all currently available energy storage technologies, lithium-ion batteries possess the highest gravimetric and volumetric energy density. Hence, lithium-ion batteries have become the dominant energy storage technology, especially for powering portable electronics devices. LIBs have also been considered as energy storage sources for emerging applications in transportation systems, including electrified automobiles and smart grids. Major R&D activities are underway to tackle the above technological barriers for state-of-the-art lithium-ion technology to meet the demanding requirements for transportation and grid applications. This Special Issue provides an opportunity to showcase your state-of-the-art research and original work that focus on the development of new materials to satisfy the increasing energy demand of new markets such as pure electric vehicles and grid storage.

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