Special Issue

Electrochemical Energy Storage Materials and Devices: Recent Advances and Future Prospects

Message from the Guest Editors

The large-scale application of electric drive equipment, mainly electric vehicles, and renewable energy, including wind, solar, ocean, and so on, is in urgent need of developing new and efficient energy storage materials and devices with high safety, high energy density, and a long cyclic life. Therefore, researchers have carried out numerous studies on electrochemical energy storage materials and devices. This Special Issue aims to collate the latest research advances and future prospects in the field of electrochemical energy storage, including, but not limited to, the following: high-performance electrode materials, advanced electrode structure, electrolyte composition, energy storage mechanism, and novel energy storage devices. We welcome the submission of research and review papers in the field of rechargeable batteries (including lithium/sodium/potassium/zinc ion batteries, aqueous batteries, lithium sulfur batteries, lithium metal batteries, hybrid capacitor, etc.) to this Special Issue, titled "Energy Storage Materials and Devices: Recent Advances and Future Prospects".

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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