Special Issue

Advances in Energy Storage and Conversion Composites

Message from the Guest Editors

Today, the storage and conversion of energy regarding portable electronic devices need improvements in components and microstructures of materials. The development of nanotechnology with the latest characterization facilities has led to the revolution of these materials. The emergence of electrochemical energy storage and conversion is regarded as one of the most promising methods of storing and transforming energy, which needs systematic strategies to reach maximum efficiencies. This Special Issue will compile recent developments in the field of energy storage and conversion devices. The articles presented in this Special Issue will cover various topics including, but not limited to, the optimization of the preparations, and the functionalization and the characterization of various electrochemical devices, including batteries, electrolyte, supercapacitors, fuel cells, renewable energy, and portable electronic devices. Topics are open to carbon-based materials, MOFs, MXene, and other kinds of materials for the development of applications.

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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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