Special Issue

Materials for Energy Conversion and Storage – towards a Sustainable Future

Message from the Guest Editor

Energy has been one of the significant challenges faced by humanity. As such, a vast amount of interest has continuously focused on the research and development of new and renewable energy, due to concerns about environmental pollution. In order to improve those systems, it is essential to achieve advanced materials that demonstrate outstanding electrochemical performances. A variety of electrochemical energy technologies, including batteries, fuel cells, hydrogen storage materials, and so on, have been investigated in order to enhancing energy conversion and storage systems. Therefore, the aim of this Special Issue is to inspire energy conversion/storage-related researchers to share their interesting and promising works, particularly in the areas of advanced materials design and electrochemical performance, including the analysis of synthesis–structure–property relationships. We invite authors to submit original research articles, review articles, communications, and concept papers describing current research trends and future perspectives in energy conversion and storage towards a sustainable future.

Guest Editor

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Deadline for manuscript submissions

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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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