Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Il Tae Kim

Guest Editor
Editor-in-Chief

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty comprehensive topics: biomaterials, energy materials, advanced composites, structure analysis and characterization, porous materials, manufacturing processes and systems, advanced nanomaterials, smart materials, thin films and interfaces, catalytic materials and carbon materials, materials chemistry, materials physics, optics and photonics, corrosion and materials degradation, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics, metals and alloys, general. The distinguished and dedicated editorial board and our strict peer-review process ensure the highest degree of scientific rigor and review of all published articles. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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