Special Issue

Graphene-Based Materials for Energy Storage and Conversion

Message from the Guest Editor

With the rapid advancement and growing impact of graphene-based materials for energy conversion, this Special Issue aims to provide a collection of cutting-edge studies related to this research field, with the hopes of attracting the attention of peer scientists. We encourage the submission of not only experimental studies, but theoretical and computational studies as well concerning the enhancement of graphene materials, computational studies using the density functional theory, molecular dynamics, data-driven approaches, etc. It is my pleasure to invite you to submit a manuscript for this Special Issue, welcoming full papers, communications, and reviews. **Keywords**

- graphene
- graphene composite
- graphite
- graphene-engineered surface
- energy storage
- solar photovoltaic
- thermoelectric
- molecular dynamics
- density functional theory
- data-driven approaches

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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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