



an Open Access Journal by MDPI

Graphene-Based Materials for Energy Storage and Conversion

Guest Editor:

Dr. Seungha Shin

Department of Mechanical,
Aerospace and Biomedical
Engineering, University of
Tennessee Knoxville, 1512 Middle
Drive, Knoxville, TN 37996, USA

Deadline for manuscript
submissions:

closed (20 December 2022)

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



mdpi.com/si/110062

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank: JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/materials
materials@mdpi.com
[X@Materials_Mdpi](https://twitter.com/Materials_Mdpi)