



Functionalized Graphene-Based Nanocomposites for Energy Applications

Guest Editor:

Prof. Dr. Piotr Kula

Department of Surface
Engineering and Heat Treatment,
Lodz University of Technology,
90-924 Lodz, Poland

Deadline for manuscript
submissions:
closed (31 March 2021)

Message from the Guest Editor

The Special Issue “Functionalised Graphene-Based Nanocomposites for Energy Applications” aims at achievements in theory and practice in that field. The considered applications of graphene-based nanocomposites are systems for reversible storage of hydrogen, supercapacitors, high-performance electrochemical energy storage devices, solar energy conversion facilities, auxiliary systems in the power industry, improving inertness to the environment, etc. Prospects and future challenges in these fields are still strategic issues worldwide. Of particular interest are recent achievements in the field of 3D graphene nanostructures, their manufacturing, internal functionalisation of nanoporous materials, as well as their structural and functional characterisation. Original scientific articles and reviews regarding theoretical issues and experimental research results as well as problems of industrial scaling of graphene-based functional nanocomposites technologies focused on energy applications are warmly welcome.





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, St. Alban-Anlage 66
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)