Special Issue

Advanced Nanocomposites Materials Based on Graphene Oxide/Reduced Graphene Oxide: Potential Applications and Perspectives

Message from the Guest Editors

In recent years, graphene oxide (GO) and reduced graphene oxide (r-GO) have received a great deal of attention as precursors of graphene-like 2D layered nanomaterials. There has been a growing number of intensive studies which address the preparation and characterization of new nanocomposites which integrate GO or r-GO (GO/r-GO) with polymers, inorganic nanoparticles (metal, metal oxide, etc.), or even nanotubes and fullerenes. Nanocomposites based on GO/r-GO and inorganic nanoparticles such as Au, Ag, Pt, etc. have attracted great attention for various applications as catalysts, photocatalysts, electrodes, sensors, substrates for surface-enhanced Raman spectroscopy, and biomedical applications. So, the development of new synthesis methods for GO/r-GO and nanoparticle composites with good control of size and morphology is necessary to obtain interesting devices. In addition, the combination of GO/r-GO with different dimensions of carbon-based materials has shown superior performance in several cases. It is our honor and pleasure to invite you to submit a manuscript.

Guest Editors

Dr. Angela Longo
Institute for Polymers, Composites, and Biomaterials, National Research Council, 80055 Portici, Italy

Dr. Mariano Palomba
Institute for Polymers, Composites, and Biomaterials, National Research Council, 80055 Portici, Italy

Deadline for manuscript submissions

closed (20 May 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/57437

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

About the Journal

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.

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

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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

MDPI