

Special Issue

Graphene Up: From Single Layer to Applications and Devices

Message from the Guest Editor

Graphene possesses outstanding properties that can be further improved through controlled interaction with both organic and inorganic materials to create hybrids. This Special Issue is devoted to graphene as a building block and orienting material in nanoarchitectures for application and devices. Papers are welcome on the synthesis, characterization and applications of hybrid 2D–2D graphene, graphene–organic frameworks, graphene in vertically and perpendicularly oriented frameworks, graphene as a structure-directing material, layer-by-layer growth of graphene, graphene interlayered with hybrid materials, and supported and multilayered graphene materials. Graphene-hybrid devices may include, among others, adsorbent membranes, sieves, energy storage, and batteries. Applications of graphene nanoarchitectures may display enhanced electronic, thermal, transport, or mechanical properties or provide further insight into the mechanisms subtending the graphene–hybrid properties.

Guest Editor

Dr. Marilena Carbone

Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, Via della Ricerca Scientifica 1, 00133 Rome, Italy

Deadline for manuscript submissions

closed (31 December 2020)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



mdpi.com/si/42296

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

[mdpi.com/journal/
materials](https://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](https://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)