

IMPACT FACTOR 3.4

Indexed in: PubMed



an Open Access Journal by MDPI

# Theoretical and Experimental Electromagnetics of Graphene and Nanocarbon Materials

Guest Editors:

## Prof. Dr. Polina P. Kuzhir

Faculty of Science and Forestry, Department of Physics and Mathematics, University of Eastern Finland, 70211 Kuopio, Finland

#### Dr. Patrizia Lamberti

Department of Information and Electrical Engineering and Applied Mathematics, Universita di Salerno, Salerno, Italy

Deadline for manuscript submissions:

closed (10 April 2023)

## **Message from the Guest Editors**

Dear Colleagues,

Many efforts have been invested to understand the outstanding electromagnetic properties of carbon nanotubes, graphene, and other forms of nanocarbon.

In order to predict the electromagnetic response of an ensemble of individual inclusions, their electromagnetic response should be modeled by means of ab initio calculations, semiclassical theory, and classical electromagnetics, combining with relevant effective medium and percolations theories/simulations. Regular and irregular structures, metamaterials and metasurfaces, and architectures are further numerically or analytically modeled.

Plenty of experimental techniques are known to be able to obtain a wide collection of data. Along with conventional approaches, highly sensitive resonator-based and photonic jet approaches allow monitoring electromagnetic properties with super-resolution.

Tuning and adjusting the constituent properties of materials allow designing a variety of electromagnetic devices, whose robustness may be controlled at many levels

All these subtopics represent the focus of the present Special Issue on theoretical and experimental electromagnetics of graphene and nanocarbon materials.



Specialsue









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, OC H3A 0C7, Canada

# **Message from the Editor-in-Chief**

Materials (ISSN 1996-1944) was launched in 2008. The iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and systems. 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 - Q2 (*Metallurgy & Metallurgical Engineering*) / CiteScore - Q2 (*Condensed Matter Physics*)

#### **Contact Us**