



materials



an Open Access Journal by MDPI

Advances in Functional Metamaterials

Guest Editor:

Prof. Dr. Tatjana Gric
Department of Electronic
Systems, Vilnius Gediminas
Technical University, 10221
Vilnius, Lithuania

Deadline for manuscript
submissions:
closed (10 October 2023)

Message from the Guest Editor

This Special Issue is devoted to recent developments in the field of artificial materials and their applications, ranging from compositions and structures, such as the orientation, arrangement, geometry, size, and shape, to smart properties, including the manipulation of electromagnetic waves by blocking, absorbing, enhancing, or bending waves. Over the past 20 years, techniques for producing nanostructures have matured, resulting in a wide range of ground-breaking solutions able to control light and heat on very small scales. Some areas of advancement that have contributed to these techniques are photonic crystals, nanolithography, plasmonic phenomena, and nanoparticle manipulation. From these advances, a new branch of novel material science has emerged—metamaterials. Metamaterials have recently been embedding novel quantum materials such as graphene, dielectric nanostructures, and, as metasurfaces, surface geometries and surface waves, while also embracing new functionalities such as nonlinearity, quantum gain, and strong light-matter coupling.



mdpi.com/si/122835

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)