Special Issue

Nanophotonics Materials and Devices

Message from the Guest Editor

Nanophotonics materials and devices have become an extremely active research field, encompassing novel nanomaterials, physical phenomena and design concepts. In these areas, design scenarios typically attempt to confine optoelectronic functionality into the smallest possible volume to meet specifications in terms of integration density and device performance unparalleled by the state-of-the-art technologies. This approach is based on the fundamental assumption that proper functionality is viable at the nanoscale and accessible from an environment whose scale is larger by several orders of magnitude. Nanophotonics scientists are actually faced with devices that are operated at their physical limit and therefore have to rely on holistic designs when exploiting new material properties to bypass restrictions posed by conventional optical designs and interfacing problems. The objective of this Special Issue is to address these conceptual challenges while highlighting novel trends in nanophotonics materials and devices, including recent progress in modeling and component development.

Guest Editor

Prof. Dr. Shengyi Yang
School of Physics, Beijing Institute of Technology, Beijing 100081, China

Deadline for manuscript submissions

closed (20 May 2023)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/135884

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

MDPI

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)