







an Open Access Journal by MDPI

Nanophotonics Materials and Devices

Guest Editor:

Prof. Dr. Shengyi Yang

School of Physics, Beijing Institute of Technology, Beijing 100081, China

Deadline for manuscript submissions:

closed (20 May 2023)

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.













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 iournal covers twenty-five comprehensive biomaterials, energy materials, advanced composites. advanced materials characterization, porous materials, manufacturing processes and svstems. 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 and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)

Contact Us