Special Issue

Nanomaterials for Nanoelectronics and Photonics

Message from the Guest Editor

Nanomaterials have played a key role in advancing electronics and photonics. Their unique properties have opened possibilities of wide-ranging breakthroughs in the field of both nano-electronic and photonic devices in terms of operation speed, bandwidth, efficiency, power consumption, compactness, system integration, and new functionalities. This Special Issue aims to present cutting-edge progress in nanomaterials and devices that are relevant to nanoelectronics and photonics. The scope covers all aspects of theoretical and experimental research of nanomaterials growth, properties, and device applications.

This Special Issue will cover the following topics (but not limited to these):

- nanomaterials
- two-dimensional materials
- carbon nanostructures
- graphene
- graphene nanoribbons
- Van der Waals materials
- nanoelectronic devices
- nanophotonic devices
- analytical and computational modeling
- theoretical studies

Guest Editor

Dr. George Kliros

Head of Division of Electronics, Electric Power and Telecommunications, Department of Aeronautical Sciences, Hellenic Air Force Academy, Dekelia Air Force Base, Dekelia Attica, Greece

Deadline for manuscript submissions

closed (15 March 2022)

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

mdpi.com/journal/materials

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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

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