materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

an Open Access Journal by MDPI

Carbon Nanomaterials: Graphene, Nanoribbons and Quantum dots

Guest Editors:

Prof. Dr. Rositsa Yakimova
Semiconductor Materials, Department of Physic Chemistry & Biology (IFM), Linkoping University, Linkoping, Sweden

Dr. Ivan Shtepliuk
Department of Physics, Chemistry and Biology (IFM), Linkoping University, SE-58183 Linkoping, Sweden

Deadline for manuscript submissions:
closed (31 December 2019)

Message from the Guest Editors

Graphene is a honeycomb carbon-based two-dimensional (2D) crystal consisting of benzene-like rings with a strong in-plane sp^2 bonding. When it is synthesized with the aid of a substrate, the carbon atoms rearrange in graphene structure due to a substrate mediated self-assembly process.

To extend the range of applications and gain new insights into graphene family materials, graphene nanoribbons and quantum dots will be brought to the readers' attention.

This Special Issue will cover recent advances in material synthesis and theoretical modeling of graphene based structures. The main focus will be on phenomena and processes underlying growth mechanism, physical properties and sensing device performance.

Keywords

- carbon nanostructures
- sp^2 bonding
- synthesis
- sensors
- modeling

materials

IMPACT FACTOR 3.2 | Indexed in: PubMed | CITESCORE 6.4

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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (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