Special Issue

Carbon Materials for Emerging Applications

Message from the Guest Editor

Nanotechnology, as a powerful physics, chemistry, biomedical field, similarly to quantum tunneling effects, ballistic electron transport, or greater molecule interactions, works at the atomic scale. One of the greatest breakthroughs of nanotechnology is due to carbon nanomaterials such as nanotubes, nanofibers, and diamond nanomaterials, which provide electronic devices with a unique combination of excellent properties. The titled Special Issue plans to cover up-to-date studies on carbon materials focused on their electronic applications achievable by the 'properties-by-design' method. Innovative strategies of controllable synthesis and innovative isolation/purification methods accompanied by widespread characterization toward applications have created an innovative science which is the focus of this Special Issue. New openings or the most recent advances in the applications of carbon nanomaterials are of interest in this Special Issue, including:

- Carbon materials characterization;
- Nanotechnology in material sciences and engineering;
- Carbon materials processing and manufacturing;
- Biomaterials;
- Optical, electrical, and magnetic materials.

Guest Editor

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Message from the Editorial Board

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.

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