Special Issue

Study on Electronic and Structural Properties of Graphene

Message from the Guest Editor

Graphene properties are crucial to achieve a better understanding of its behaviour and the way this material can be used to its full extent. These planar sheets of one carbon atom thickness are shaping current technologies, mainly due to their intrinsic high surface area, chemical stability, electrical conductivity and flexibility. These properties provide a new perspective to established technologies in the biomaterials and energy storage fields. The main purpose of this Special Issue is focused on exploring graphene electronic and structural properties. Graphene properties can be tuned depending on layer dimensions and/or functionalities, thus affording extraordinary materials for a wide range of applications. Research areas may include (but are not limited to) the following:

- Tuning graphene structural and/or electronic properties.
- Graphene properties and applications in the healthcare and medicine fields.
- Graphene properties and applications to develop new batteries and supercapacitors.
- Graphene properties and applications to develop optical and electronic devices.

I look forward to receiving your contributions.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
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