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Fullerene Nanostructures: Synthesis, Functionalities and Applications

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2022)

Message from the Guest Editor

Fullerenes are a class of cage-like all-carbon clusters that have rendered chemical, physical, and biological properties. Recently, a wide range of promising applications have been shown for fullerenes and their derivatives in the fields of organic photovoltaics, biomedicines, molecular electronics, and energy storage devices, etc. This Special Issue will cover scientific advances surrounding this kind of outstanding carbon nanomaterial in synthetic methods, structures, assemblies, functionalities, and applications.

This Special Issue aims to collect high-quality contributions of original research papers, review articles, and communications that are relevant to fullerene and its derived nanomaterials.

In this Special Issue, research areas may include (but are not limited to) the following aspects of fullerene:

- Synthesis of pristine fullerenes.
- Derivatization and functionalization of fullerene.
- Endohedral fullerenes.
- Characterization techniques for fullerenes.
- Fullerene assemblies.
- Fullerene electronics.
- Fullerene materials for photovoltaic.
- Fullerene materials for energy storage.

We look forward to receiving your contributions.

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Editor-in-Chief

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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.

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