



## Synthesis of Functionalized Carbon Nanostructures and Their Electrochemical Applications

Guest Editor:

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submissions:

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### Message from the Guest Editor

Dear Colleagues,

The discoveries of new carbon nanomaterials (i.e. fullerene, carbon nanotubes, graphene, carbon quantum-dots, carbon nanohorns, nanodiamonds, etc.) have been the subject of extensive scientific research and have led to an unprecedented impact in the field of modern nanotechnology over the last few decades, due to their significant electronic, chemical, optical, mechanical and thermal properties. Moreover, carbon nanomaterial-based composites offer fundamentally new capabilities to architect a broad function of novel materials, which possess unique nontraditional properties. In the flow of these science and technologies, this Special Issue is to offer the latest cutting-edge research and development in the field. Research papers related to the synthesis, materials design and characterization of novel carbon nanomaterials or related composites and their electrochemical applications, such as electrochemical sensing, electrocatalysis, electrochemical energy storage, diagnostics, biomedicine, etc., are welcome in this Special Issue.

Dr. Seoung-Ki Lee

*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.

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