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Development, Properties, and Applications of Carbon-Based Nanomaterials

Guest Editor:

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Message from the Guest Editor

In the last 35 years, several different types of carbon nanomaterials have been discovered, including graphene, carbon nanotubes, and carbon dots. These breakthroughs have sparked a revolution in the field of nanotechnology as researchers have sought to explore the exciting applications of these materials. Different allotropes of carbon exhibit unique properties and promote their use in diverse fields. Various carbon nanoparticles have shown promise in areas such as drug delivery, energy storage, and photocatalysis based on their easily modifiable surface and unique electronic and optical properties. Despite the promise shown by the various types of carbon nanomaterials, there remain many fundamental questions about their properties and obstacles to maximizing their use in fields such as nanomedicine, electronics, and manufacturing.

This Special Issue encompasses research based on new and improved synthesis/development of carbon nanomaterials, enhanced understanding of their properties, and advances in the use of these materials in various applications.

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Message from the Editor-in-Chief

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