Special Issue

Advanced Carbon Materials with Nanostructures and Their Applications

Message from the Guest Editor

Carbon materials have revolutionized the scientific community due to their exceptional properties, including high chemical stability, low cost, and availability from various sources. They have been extensively utilized in a wide range of applications, such as energy storage, catalysis, biosensors, high-flux membranes, etc. In recent years, there has been a growing interest in carbon materials with nanostructures, as they offer unique physicochemical properties that are distinct from their bulk counterparts. In this Special Issue, we focuses on the synthesis, characterization, and evaluation of advanced carbon-based nanomaterials, such pure carbon nanomaterials, carbon/metal oxides nanocomposites, and carbon/metal nanocomposites, and so on, including their various application in different fields. We welcome original articles, short communications and systematic reviews that report on the fabrication, development, or application of such carbon-based nanomaterials.

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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