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Electrochemical Properties of Carbon Nanomaterials

Guest Editor:

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Message from the Guest Editor

Carbon materials are traditionally used in electrochemical devices for energy conversion and storage. The development of nanostructured carbon forms, such as nanodiamonds, carbon nanotubes, and graphene, has led to the chemical design of carbon-based nanomaterials with exceptional electrochemical characteristics. In recent years, tremendous effort has been made to find methods to produce carbon nanomaterials with desired morphology, texture, and surface composition characteristics and to establish important relationships between these parameters and the electrochemical performance of a specific device.

The aim of this Special Issue of *Nanomaterials* is to discuss the use of nanostructured sp^2-hybridized carbon nanomaterials for electrochemical capacitors. Owing to their high power density, short charging time, and long-term working stability, these devices are becoming important for various applications. We invite researchers to submit their original results on relevant topics, such as structure tailoring, surface activation, and the capacitive behavior of carbon in different electrolytes.

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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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