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## Functional Carbon Nanocomposites for Energy Storage and Conversion

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### Message from the Guest Editor

In recent decades, a large variety of nanostructured allotropes of carbon—i.e., nanocarbons—with singular physicochemical properties have been discovered and widely studied. Amongst some of the remarkable properties of nanocarbons, we can cite the low density of carbon aerogels and nanofoams, the outstanding electron mobility within graphene sheets, the extremely high tensile strength of carbon nanotubes, and the  $\pi$ -plasmon absorption of carbon quantum dots. Nanocarbons have been seen as valuable building blocks for the design of functional nanocomposites, especially in the field of energy (e.g., rechargeable batteries, supercapacitors, (bio)fuel cells, solar energy harvesting systems). This Special Issue aims to collect original articles (full papers, communications, and reviews) addressing the prosperous topic of *Functional Carbon Nanocomposites for Energy Storage and Conversion*.



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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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