

Special Issue

Carbon Nanoarchitectures for Electrochemical Energy Storage and Battery Applications

Message from the Guest Editor

Due to the rapid depletion of fossil fuels and increasingly serious environmental issues facing the world, sustainable renewable energy conversion devices are now receiving great attention, as are sustainable energy storage devices. Recently, carbon-based nanomaterials have been extensively studied as excellent candidates for electrochemical energy storage applications due to their high conductivity, chemical stability, enhanced surface area, and excellent electrical properties. This Special Issue will focus on discussing the synthesis, design, development, and fundamental advances made in various carbon-based nanoarchitectures (graphene, carbon nanotubes, carbon nanofibers, carbon quantum dots, etc.) for applications in electrochemical energy storage. We invite researchers to submit their original results on relevant topics. All types of contributions, including full-length research articles, review articles, and short communications, are welcome.

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

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