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Nanostructured Porous Carbon based 3D Architectures

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Message from the Guest Editors

Dear Colleagues,

Nanostructured porous carbon-based 3D architectures have attracted tremendous attention as next-generation active materials templates due to their extraordinary chemical and physical properties. Furthermore, related versatile devices can greatly improve energy efficiency because of their largely expanded working volumes, multiplexed conduction networks, 3D interfacing, and intercalation with other system components.

This Special Issue intends to highlight recent advances in fabrication approaches for multidimensional nanostructured porous carbon-based architectures in diverse device applications, enabling exotic physical, chemical, electrical, and optical properties. Papers sharing research and advances in related fields, which demonstrate or summarize significant advances in the synthesis and application of nanostructured porous carbon-based 3D architectures in various systems, including, but not limited to, Li (Na, K)-ion batteries, supercapacitors, optoelectronic applications, and insights into the structure–property relation in these new nanostructured materials are also welcomed.

Guest Editors



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Special Issue



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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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