

Special Issue

Nano Carbon for Batteries Applications

Message from the Guest Editor

Carbons are lightweight, environmentally benign, and cost-effective materials that are an essential component in every battery on the market, as conducting agent and as anode material in Li-ion batteries. Nevertheless with their great flexibility in providing complex architectures, they are extensively studied for different functions applied to different battery chemistries. With this Special Issue we aim to a collection highlighting how nanoscale features of carbonaceous materials can enable superior performance in batteries. We welcome contributions on the whole field, in particular in emerging aspects of research, such as cathode in Li-S and metal-air batteries, in lithium anodes or as suspension electrode for flow cells, bio-inspired or bio-derived materials, with studies or reviews that may address preparation methods, modeling, sustainability or technological aspects.

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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