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Highly Adsorptive and Catalytic Cathode Nanomaterials for Lithium-Sulfur Batteries

Guest Editor:

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Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editor

Dear Colleagues,

Lithium-sulfur batteries are regarded as one of the most promising next-generation electrochemical energy storage devices due to their ultra-high theoretical energy density and abundant sulfur resource. On the way to commercialization of lithium-sulfur batteries, nanomaterials have opened up a brand new way to boost their electrochemical performance and cycling life.

The present Special Issue of Nanomaterials is aimed at presenting comprehensive research on highly adsorptive and catalytic cathode nanomaterials for lithium-sulfur batteries. This includes carbon-based materials, metal compound materials, polymer materials, and so on. We are inviting contributions from leading groups in the field to show the latest progress of nanomaterials in the field of lithium-sulfur batteries and point out the way for future research direction.

See more information at https://mdpi.com/si/156274. We look forward to receiving your contributions.

Dr. Yan Wang
Guest Editor

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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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