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Sulfur Based Nanomaterials for Secondary Batteries

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Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editors

Dear Colleagues,

Secondary batteries based on alkaline or alkaline-earth metal ions are promising candidates as energy storage systems for stationary, automotive and portable applications. The most important characteristics for these types of devices are energy and power densities, safety and cost. The electrode and electrolyte materials play a major role in determining the performance of each battery technology.

This special issue will focus on the synthesis, functionalization, characterization, chemical and physical properties, application, theory, and modeling of sulfur-based nanostructured materials for secondary batteries. The Issue aims to provide a comprehensive overview of the recent and forthcoming progress in the field. It will help researchers working on rechargeable batteries to orient in the waste production that is possible to find in the literature.

We invite interested authors to submit their original experimental, theoretical and review papers focusing on the subject for inclusion in this Special issue.

Dr. Mauro Francesco Sgroi
Dr. Carlotta Francia
Guest Editors

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

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