Special Issue

Nanomaterials and Nanoengineering for Sulfur-Based Batteries

Message from the Guest Editor

The quest for next generation high-power and -performance batteries has opened up, as the demand for renewable energy storage is growing. Sulfur batteries have garnered increasing attention in the last decade with significant progress in their development. While lithium-sulfur is almost commercialized, sodium- or magnesium-sulfur batteries still need large research efforts. Although some insights into the overall system chemistry have been obtained, component design and balancing are underestimated. Moreover, the nanoscale effects on the reaction mechanism are rather unclear. We welcome all high quality contributions allowing an optimistic step forward in nanoscale material chemistry and engineering allowing the breakthrough of sulfur batteries for our clean and sustainable tomorrow. Please **click here to submit your manuscript**. Dr. Lars Giebeler

Guest Editor

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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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