Special Issue

State-of-the-Art in Nanomaterials for Energy and Catalysis in China

Message from the Guest Editors

On the way toward a sustainable energy economy, rechargeable lithium-ion batteries (LIBs) and Ni-MH batteries have demonstrated their tremendous success in powering our daily life yet are gradually approaching the limitations on theoretical energy density and resource abundance. In light of the cost and abundance of Li, Na/K/Mg/Zn are considered to be viable alternatives over Li for large-scale energy storage. Besides, electro-/photo-catalysis is also regarded as promising route of eco-friendly and sustainable energy conversion and storage. As many research groups in China have made remarkable advances on these research fields recently, we would like to take this opportunity to gather works with focused and narrowed topics in a Special Issue. This Special Issue aims to cover research on State-of-the-Art in Nanomaterials for Energy and Catalysis in China especially with following topics.

Guest Editors

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Prof. Dr. Jie Wang

Dr. Jipeng Cheng

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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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