Special Issue

Nanoscale Energy Storage Materials for Electrochemical Research

Message from the Guest Editor

As nanomaterials offer unique properties compared to their bulk counterparts, nanomaterials have been actively explored in a number of disciplines to improve the performance of devices and to invent the new kind of devices. The development of electrochemical devices has been largely attributed to nanoscale science and engineering, and the potential benefits of nanotechnology are being expected to be huge. This Special Issue of *Nanomaterials* provides a forum for discussing recent developments in (i) nanoscale materials for energy storage applications, (ii) characterizations, and (iii) theoretical computations probing nanomaterials at working conditions in order to understand the role of nanomaterials in advancing electrochemical properties. The knowledge gained may be used to support the development of new nanomaterials with desired properties and to provide novel guidance in nanoscale energy storage materials for electrochemical research.

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.

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