

Special Issue

Early-Career Researchers in Nanomaterials for Energy and Catalysis

Message from the Guest Editor

Nanomaterials have been playing an increasingly important role in electrochemical energy storage and conversion. By building unique nanoarchitecture or composition-tunable nanocomposites, critical processes such as the kinetic diffusion of charges during energy storage, or dynamic adsorption/desorption of intermediates during catalytic reactions, could be regulated and facilitated. Structural engineering sometimes aims at creating accessible active sites, which could be realized via exposing particular crystal facets or generating pores. Compositional modification is trying to harvest the favorable properties of different constituents, achieving an enhanced performance of the hybrid. It is thus of vital importance to rationally design functional nanomaterials tailored to the desired process or products.

Guest Editor

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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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