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Nano-Materials in Electrocatalyst

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Renewable energy can usually be converted into other forms, such as electricity, for easy use and transportation as well as safe storage. At the time, the conversion efficiency should be increased by using the electrochemical conversion method with a nanostructured electrocatalyst. Therefore, the electrocatalyst should have high activity, long-term stability, reproducibility, and be amenable to mass production.This Special Issue will focus on the synthesis and analysis of 0D (cluster, single atom, etc.), 1D (nanowire, nanorod, nanotube etc.), 2D (graphene, transition metal dichalcogenides, MXene, Xene, etc.), and 3D (nanoparticle, nanoflower, etc.) structured nanomaterials for electrochemical energy conversion systems such as fuel cells, water electrolysis, battery, supercapacitors, electrochemical conversion of CO_2 and NH_3, electrochemical chlorine evolution reaction etc., including the development of computational material design and identifying reaction mechanisms, et.al.

For further reading, please follow the link to the Special Issue Website at: http://www.mdpi.com/si/223306

Dr. Sung Mook Choi

Guest Editor

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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.

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