Special Issue

Electrochemical and Electrocatalysis Performance of Functional Nanomaterials

Message from the Guest Editor

Due to their adjustable morphology and surface groups, nanostructured catalysts hold great significance in the fields of electrochemistry and energy storage. They have a wide range of applications, including fuel cells, water-splitting devices, and metal–air batteries. Nanoscale materials offer substantial advantages in electrocatalysis because of their unique structures and their electronic and physicochemical properties, such as high surface area, elevated surface atomic density, superior electron mobility, and excellent structural stability. This Special Issue focuses on the latest innovative research and developments in nanoscale electrocatalysts, which have become a prominent topic of research, both domestically and internationally, in recent years. It encompasses a broad range of topics, including the design, synthesis, and application of nanoscale electrocatalysts. We welcome contributions from all related subjects that aim to enhance our understanding of this exciting and rapidly advancing field.

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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