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Emerging Nanomaterials for Electrochemical Applications

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Message from the Guest Editor

Electrochemical applications, such as photovoltaic devices, secondary batteries, supercapacitors, and water splitting devices, etc., have become the most promising electrochemical technologies to supply renewable energy. For next-generation electrochemical applications, nanomaterials have an important role in improving energy conversion and storage performance. The main challenges in the field of emerging nanomaterials for electrochemical application are the control of their preparation; comprehensive knowledge of physical and chemical active site, enabling a rational design of efficient nanomaterials; and their characterization.

This Special Issue of *Nanomaterials* seeks to highlight the most recent results contributing to an understanding of emerging nanomaterials, providing stimulating contributions in the preparation, characterization, and application to the electrochemical field.



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Special Issue



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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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