Special Issue

Advanced Nanomaterials for Renewable Energy and Sensors

Message from the Guest Editors

Heterostructured nanomaterials have been explored as potential catalysts in many heterogeneous catalysis applications, such as photo/electrochemical water splitting, carbon dioxide conversion, pollutant remediation, the hydrodesulfurization of petroleum, organic molecule transformations, etc. Herein, we invite authors to contribute original research or comprehensive review articles focused on the most recent progress and new developments in the synthesis and utilization of heterostructure nanomaterials for highly efficient and novel processes associated with catalytic applications in energy, sensors, and environmental sustainability. This Special Issue aims to cover a broad range of subjects from heterostructured nanomaterial synthesis to design and technologies with nanomaterial integration.

Guest Editors

Prof. Dr. Jerry J. Wu

Department of Environmental Engineering and Science, Feng Chia University, Taichung 40724, Taiwan

Dr. Cheng-Hua Liu

Department of Environmental Engineering and Science, Feng Chia University, Taichung 40724, Taiwan

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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