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Nanomaterials with Controlled Morphology for Use in Catalysis and Biological Fields, Volume II

Guest Editors:

Prof. Dr. Kezhen Qi

Prof. Dr. Kun Zheng

Dr. Rengaraj Selvaraj

Deadline for manuscript
submissions:
closed (31 August 2023)

Message from the Guest Editors

Dear colleagues,

This Research Topic will highlight significant contributions made by leading researchers in the emerging field of nanomaterials. We invite original research and review articles. Specific areas of interest include, but are not limited to the following:

1. Nanomaterials with novel properties for practical applications
2. Functionalization and characterization of nanomaterial
3. Phase engineering- and morphology-dependent properties of nanomaterials
4. Nanomaterials for application in photocatalysis, electrocatalysis, photothermal/photodynamic therapy, and bioluminescent probe
5. Tailoring of polymeric nanomaterials and organic-inorganic nanostructures
6. The solubility, dispersion, de-functionalization, and optical properties of photoelectric functional materials
7. Photoelectric nanomaterials for photocatalysis applications in water splitting, CO₂ reduction, pollutant degradation, antibacterial and so on
8. Inorganic catalysts used for soot combustion, NO_x elimination and other organic reactions



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Special Issue



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Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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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Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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