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Nanomaterials with Controlled Morphology for Use in Catalysis and Biological Fields

Guest Editors:

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Deadline for manuscript
submissions:

closed (30 November 2022)

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 manuscripts focusing on the design, synthesis, modification, and modeling of inorganic nanomaterials as well as their versatile applications for sustainable development.

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

See more information at <https://mdpi.com/si/114326>. We look forward to receiving your contributions.



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Special Issue



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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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