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Catalysis by Metal-Oxide Nanostructures—2nd Edition

Guest Editor:

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Deadline for manuscript submissions:
closed (20 September 2024)

Message from the Guest Editor

Dear Colleagues,

We invite researchers from academia, industry, and research institutions to submit their original research, review articles, and perspectives on various aspects of catalysis by metal-oxide nanostructures. Potential topics of interest for this Special Issue include, but are not limited to:

- Synthesis and characterization of metal-oxide nanostructures;
- Theoretical modeling and computational simulations of metal-oxide catalysis;
- Metal-oxide nanostructures for heterogeneous catalysis;
- Metal-oxide nanocatalysts for energy conversion and storage;
- Metal-oxide catalysts for environmental remediation;
- Metal-oxide-based photocatalysis and photoelectrochemical applications;
- Design and engineering of metal-oxide catalysts for specific reactions;
- Surface modifications and functionalization of metal-oxide nanostructures;
- Catalytic mechanisms and reaction kinetics of metal-oxide nanostructures;

We look forward to receiving your contributions. See more information in https://www.mdpi.com/si/196118

Dr. Sónia Carabineiro
Guest Editor

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Editor-in-Chief

Prof. Dr. Shirley Chiang
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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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