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Carbon-Based Nanomaterials for Highly Efficient Catalysis

Guest Editors:

Prof. Dr. Jiangbo Xi

Prof. Dr. Junwu Xiao

Prof. Dr. Fei Xiao

Deadline for manuscript submissions:
closed (20 March 2024)

Message from the Guest Editors

Dear Colleagues,

The rise in global demand for green chemistry and sustainable development has driven an immense research interest in the fundamental science of catalysis. Carbon-based nanomaterials offer unconventional ways for their catalytic applications to address some of the new challenges deriving from moving to a more sustainable future.

The present Special Issue of *Nanomaterials* is aimed at presenting the unique properties of carbon-based nanomaterials catalysis and giving a balanced view of the current state of the art in this discipline. We welcome submissions to this Special Issue, "Carbon-Based Nanomaterials for Highly Efficient Catalysis", in the form of original research papers, reviews, or communications that highlight the recent progress and advance of carbon-based nanomaterials and their applications in the field of catalysis.

Please see more details at the following link: https://www.mdpi.com/si/152862

Prof. Dr. Jiangbo Xi
Prof. Dr. Junwu Xiao
Guest Editors

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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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