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Nanomaterial-Mediated Biomass Conversion and Biowaste Valorization

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Deadline for manuscript submissions:

closed (31 May 2024)

Message from the Guest Editors

Dear Colleagues,

The increasing global demand for sustainable and renewable resources has led to a growing interest in the utilization of biomass and biowaste for the production of high-value products. This Special Issue aims to provide a platform for researchers and scientists to showcase their cutting-edge research, advances, and insights in the field of biomass conversion and the valorization of biowaste using nanomaterials.

Topics of interest include, but are not limited to:

- Novel nanocatalysts for biomass conversion;
- Nanomaterial-based processes for biowaste valorization;
- Nanotechnology-enabled biofuel production;
- Nanomaterials for biomass-derived chemical and material synthesis;
- The characterization and optimization of nanomaterials in biomass conversion processes;
- The environmental and sustainability aspects of biomass conversion and biowaste valorization;
- etc.

See more information at <https://www.mdpi.com/si/191199>

Dr. Jun Zhao
Guest Editor



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Special Issue



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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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