

Special Issue

Innovative Strategies for Sustainable Biomass Valorization and Wastewater Treatment

Message from the Guest Editor

Global sustainability focus underscores the critical need for innovative biomass valorization and wastewater treatment. Biomass (agricultural residues, industrial by-products, organic waste) is a renewable resource convertible into bioenergy, biofuels, chemicals, and value-added products. Wastewater contains recoverable nutrients and organic matter, which support a circular economy when properly treated. This Special Issue highlights integrated strategies for biomass utilization and wastewater treatment to maximize resource efficiency and minimize environmental impacts. It covers advanced biotechnological, chemical, and engineering methods, with key topics including bioenergy, biorefineries, anaerobic digestion, microbial fuel cells, nutrient recovery, and advanced oxidation processes. Interdisciplinary studies are encouraged. Aim to share recent advances, foster collaboration, and promote holistic solutions linking the two fields—aligned with circular economy and sustainable industrial practices—guiding researchers, engineers, and policymakers toward practical, scalable sustainability solutions.

Guest Editor

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

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