Special Issue

Rethinking Wastewater: Microbial Solutions for a Sustainable Future

Message from the Guest Editors

It is with great pleasure that we announce a forthcoming Special Issue on microbial approaches to wastewater management and resource recovery. We invite you to contribute original research to this important scientific discourse. We welcome high-quality submissions addressing: Microbial community dynamics and adaptation mechanisms under stressors in wastewater (chemical toxicity, nutrient shifts, antimicrobials, etc.); Application of omics technologies (metagenomics, transcriptomics, proteomics, metabolomics) to elucidate stress responses and metabolic pathways relevant to treatment; Development and optimization of engineered microbial consortia for resource recovery (e.g., bioplastics, bioenergy, specialty chemicals); Translational research linking microbial science and circular bioeconomy applications. We encourage submissions from multiple disciplines, including but not limited to: Environmental engineering; Microbiology and microbial ecology; Biochemistry and biotechnology; Systems biology; Environmental policy and economics. Submissions may include theoretical, experimental, or applied work. We particularly value interdisciplinary research advancing holistic understanding.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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