Special Issue

Effects of Nanomaterials on Environmental Microbial Communities during Wastewater Treatment

Message from the Guest Editors

This Special Issue aims to elucidate the multifaceted impacts of nanomaterials on the structure, dynamics, and functionality of environmental microbial populations during the wastewater treatment process. We invite contributions that investigate the potential enhancements and challenges posed by nanomaterial applications in wastewater treatment. Scope: Evaluation of the impacts of nanomaterial on wastewater microbial community composition.

Assessment of nanomaterial effects on microbial metabolic activities and functional roles in the wastewater treatment process.

Exploration of potential synergy effects of nanomaterials and microbial communities and impact on treatment efficiency.

Investigation of potential ecological risks and unintended consequences associated with nanomaterial applications during the wastewater treatment process.

Analysis of the long-term impacts of nanomaterial exposure on microbial community resilience and adaptation.

Consideration of ethical and health-related aspects concerning using nanomaterials in wastewater treatment.

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Deadline for manuscript submissions

closed (25 June 2024)

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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal Environments, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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