

Special Issue

Clean Technologies and Innovative Approaches for Sustainable Wastewater Treatment

Message from the Guest Editors

This Special Issue aims to explore the latest advancements in clean and sustainable technologies for wastewater treatment, addressing pressing environmental challenges and supporting global efforts toward resource efficiency, pollution mitigation, and water reuse. As the demand for high-performance and eco-efficient treatment systems grows, it is imperative to develop and implement innovative solutions that go beyond conventional approaches.

Areas of particular interest include the development of next-generation treatment technologies (e.g., advanced oxidation, membrane filtration, electrochemical processes, and anaerobic digestion); integrated and modular systems for decentralized or industrial wastewater treatment; resource and energy recovery from wastewater (e.g., biogas, nutrients, and water reuse); automation, process control, and digital tools (e.g., AI, machine learning, and IoT) in smart wastewater treatment; sustainability assessment, including life cycle analysis, carbon footprint, and techno-economic evaluations; and treatment of emerging contaminants, such as pharmaceuticals, microplastics, and PFAS, and thermochemical processes/technologies, among others.

Guest Editors

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Message from the Editor-in-Chief

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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