

Special Issue

Advanced Treatment and Resource Recovery Technologies for Sustainable Wastewater and Waste Utilization

Message from the Guest Editors

The global challenge of wastewater and waste management is intensifying due to rapid industrialization, population growth, and climate change. Traditional treatment systems, while effective, are often energy-intensive, costly, and unsustainable in the long run. Recent advancements in science and engineering are opening new opportunities not only for cleaner effluent discharge but also for the recovery valuable resources such as nutrients, bioenergy, clean water, and bio-based products. This Special Issue invites the submission of original research articles, reviews, and case studies on innovative treatment and resource recovery approaches for wastewater and waste utilization. Topics of interest include emerging biological, chemical, and physical processes; circular economy strategies; integration of nanotechnology and advanced materials; hybrid and decentralized systems; and digital/AI-driven monitoring for efficient waste valorization. Contributions highlighting the environmental, economic, and societal impacts of these technologies, as well as their role in achieving the Sustainable Development Goals (SDGs), are especially welcome.

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About the Journal

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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