

Special Issue

Circular Economy Approaches of Wastewater Cleaning and Recycling

Message from the Guest Editors

This Special Issue seeks scholarly contributions focusing on the application of Circular Economy principles to the treatment and recycling of wastewater streams. Topics include but are not limited to the following:

- Advanced techniques for the recovery of essential nutrients and valuable metals from municipal and industrial wastewaters.
- Wastewater-based energy recovery systems, including biogas production, microbial fuel cells, and innovative energy harvesting technologies.
- Novel membrane processes, Advanced Oxidation Processes, and hybrid treatment systems for safe water reuse in industrial, agricultural, and potable applications.
- The synthesis and recovery of high-value bioproducts, bioplastics, and specialized chemicals from wastewater or sludge.
- Techno-economic and environmental sustainability assessment of Circular Economy integration models in existing wastewater treatment infrastructure.
- The application of Artificial Intelligence for optimizing resource recovery and Circular Economy performance in wastewater systems.
- Evaluation of environmental risks and the establishment of regulatory frameworks supporting the widespread implementation of water and resource recycling applications.

Guest Editors

Dr. Emine Can-Güven

Dr. Senem Yazici Guvenc

Prof. Dr. Gamze Varank

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P.
Giuria 9, 10125 Turin, Italy

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