Special Issue

Research Progress on the Utilization of Energy Substances in Sludge from Urban Sewage Treatment Plants

Message from the Guest Editors

This Special Issue, "Research Progress on the Utilization of Energy Substances in Sludge from Urban Sewage Treatment," aims to explore innovative and sustainable approaches to harness the energy potential within sewage sludge. With advancements in technologies such as anaerobic digestion, pyrolysis, and gasification, sewage sludge can be transformed into valuable energy resources like biogas, bio-oil, and syngas. These processes not only mitigate the environmental burden associated with sludge disposal but also contribute to renewable energy production and resource recovery. This Special Issue will cover cutting-edge research on the characterization of energy substances in sludge, the optimization of energy recovery processes, and the integration of these technologies into existing urban sewage treatment frameworks. By addressing both technological and environmental aspects, this collection of articles aspires to provide a comprehensive understanding of the current state and future prospects of energy utilization in sewage sludge, fostering a circular economy approach in urban waste management.

Guest Editors

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Deadline for manuscript submissions

31 December 2025

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/222568

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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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