

Special Issue

Circular Water Management in Sustainable Cities: Valorization of Municipal By-Products and Industrial Wastewater

Message from the Guest Editors

This Special Issue aims to explore innovative approaches to circular water management within sustainable urban systems, focusing on the valorization of municipal and industrial wastewater. It seeks to address critical challenges posed by the increasing volume of wastewater and sludge generated through rapid urbanization, as well as the specific complexities associated with industrial effluents, such as those from semiconductor manufacturing containing emerging contaminants such as TMAH. This Special Issue will highlight the integration of advanced biological, chemical, physical, and thermal treatment technologies for the recovery of valuable resources, such as biogas, nutrients, and carbon materials. Additionally, it will examine the role of wastewater reuse in the circular economy, addressing both technical and policy-related barriers to implementation. It will also supplement the existing literature by providing a comprehensive overview of emerging contaminants, circular economy applications, and integrated treatment technologies, thus advancing both theoretical and practical knowledge in the field of sustainable water management.

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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.

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