

Special Issue

Circular Economy and Sustainable Water Treatment

Message from the Guest Editors

The transition towards a circular economy in water treatment is essential for ensuring long-term sustainability and resilience in water resource management. This Special Issue, “Circular Economy and Sustainable Water Treatment”, explores innovative strategies, technologies, and policies that promote water reuse, resource recovery, and waste minimization. By integrating circular economy principles, wastewater treatment plants can evolve into resource hubs, extracting valuable materials such as nutrients, bioenergy, and clean water while reducing environmental impact. This Special Issue highlights advancements in green chemistry, nature-based solutions, smart water management systems, and sediment treatment/remediation that contribute to more efficient and sustainable water treatment. Effective sediment remediation plays a crucial role in maintaining water quality, preventing pollutant accumulation, and enhancing ecosystem health, making it an integral part of circular water management strategies.

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