

Special Issue

Recent Advances in Water Quality Assessment and Sustainable Wastewater Treatment: Analysis and Methods

Message from the Guest Editors

The effective management of water quality and wastewater treatment has become increasingly critical due to rising urbanization, industrialization, and climate change. Traditional water treatment methods, while foundational, often struggle to address the complex range of contaminants and the need for efficient resource recovery. With escalating pollution and evolving regulatory demands, there is a pressing need for advancements that improve both the effectiveness and sustainability of these processes. Recent technological and methodological innovations are revolutionizing water quality assessment and wastewater treatment. Advanced monitoring techniques and novel treatment technologies are crucial for enhancing water quality, reducing environmental impacts, and ensuring the sustainable reuse of treated water. This Special Issue seeks to provide a comprehensive overview of the latest research, challenges, and innovations in these areas. We welcome original research articles and reviews on topics such as emerging contaminants, innovative treatment methods, resource recovery and reuse, and climate change adaptation strategies.

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Deadline for manuscript submissions

30 November 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 8.9



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