

Special Issue

Advanced Studies in Environmental Technology and Wastewater Treatment

Message from the Guest Editor

With increasing industrialization and population growth, conventional wastewater treatment methods are often insufficient in removing emerging contaminants (e.g., pharmaceuticals, microplastics) and achieving energy-efficient operations. This Special Issue aims to highlight advancements such as nanotechnology-enabled filtration systems, bioelectrochemical treatment processes, AI-driven monitoring frameworks, and circular economy strategies for sludge valorization. We welcome contributions that cover novel catalytic degradation techniques (e.g., photocatalysis, Fenton-like reactions), membrane bioreactor optimizations, and low-cost decentralized solutions for underserved regions. By integrating fundamental research with practical applications, this Special Issue seeks to bridge gaps between laboratory-scale innovations and large-scale implementation. Topics of interest include (but are not limited to) the following: pollutant removal mechanisms; lifecycle assessments of treatment technologies; hybrid systems combining physical/chemical/biological methods; and policy-driven incentives for sustainable water management.

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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