

Special Issue

Innovative Strategies and Emerging Technologies in Wastewater Treatment

Message from the Guest Editor

Wastewater treatment plays a vital role in environmental protection and water sustainability, addressing challenges such as industrial discharge, emerging contaminants, and increasing global water demand.

Traditional treatment methods are being enhanced with advanced and integrated approaches, incorporating physical, chemical, and biological techniques. Recent developments focus on cost-effective, energy-efficient, and environmentally friendly solutions to improve pollutant removal and resource recovery. This Special Issue invites high-quality contributions on cutting-edge research and technological advancements in wastewater management. Topics of interest include, but are not limited to, the following:

- Advanced oxidation processes (AOPs);
- Nanomaterials and hybrid materials for water purification;
- Membrane-based separation technologies;
- Bioremediation and microbial treatment processes;
- Electrochemical and photocatalytic methods;
- Resource recovery (nutrients, metals, energy);
- ...

Guest Editor

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