



Advanced Effluents Bioprocessing for Nutrients and Energy Recovery

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to gather cutting-edge research on innovative technologies, strategies, and approaches for wastewater management, going beyond efficient resource recovery.

The topics of interest include, but are not limited to:

1. Advanced biochemical processes for nutrient removal and recovery from effluents;
2. Biotechnological approaches for energy recovery from wastewater or treatment products such as waste sludge;
3. Resource-oriented sanitation systems and circular economy concepts;
4. The utilization of by-products and residuals from effluent treatment for energy or nutrient recovery;
5. Modeling, metabolic pathways, optimization, and control strategies for efficient and sustainable effluent management;
6. Innovative approaches to minimize and manage effluent generation;
7. Integrated bioprocess and biosystems for the simultaneous treatment of water, energy, and nutrients;
8. Life cycle assessment and environmental impact evaluation of effluent management approaches;
9. Case studies and success stories on the implementation of advanced effluent bioprocessing practices.

Special Issue

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