Special Issue

Biologically Based Green Technology for Sustainable Water and Wastewater Treatment Management

Message from the Guest Editors

One of today's most significant challenges is developing technologies and methods for effectively treating, reusing, and conserving the world's increasingly scarce water resources. One response to this challenge is Green Technology, which includes Biological Methods for Sustainable Water and Wastewater Treatment, and provides environmentally friendly and nature-based solutions. While traditional water and wastewater treatment methods are often resource-intensive and less aligned with circular economic principles, Green Technology represents a forward-looking solution to the worldwide water crisis, especially for developing regions. This method integrates eco-friendly technologies (like membrane filtration, advanced oxidation processes, solar-powered treatment units, plasma, and constructed wetlands) and natural biological processes that use living organisms (mainly algae and plants) to naturally break down or absorb/adsorb contaminants in water and wastewater. It also recovers valuable resources and supports long-term environmental sustainability.

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