Special Issue

Wastewater Treatment and Waste Recovery in Environmental Processes

Message from the Guest Editors

The effective management and treatment of wastewater play a critical role in maintaining environmental sustainability. Traditional waste recycling plants are designed to remove suspended solids, eliminate contaminants and nutrients, and convert organic matter into bio-energy and biosolids. However, there is a growing need to explore innovative approaches, technologies, and strategies that can enhance the efficiency of wastewater treatment and waste recovery in the following key areas:

- Advancement in wastewater treatment technologies;
- Recovery of valuable resources (nutrients, energy, and biosolids);
- Integrated approaches for optimizing processes;
- Novel materials and processes to enhance efficiency;
- Life cycle assessment of new systems and processes;
- Techno-economic analysis of wastewater treatment processes.

Developments in these areas can advance our collective understanding and promote sustainable solutions for wastewater treatment and waste recovery, contributing to a cleaner and healthier environment.

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