# Special Issue

# Advanced Treatment Technologies for Emerging Contaminant Control and Resource Utilization

## Message from the Guest Editors

The treatment of emerging contaminants from environmental matrices represents one of the most critical research areas in environmental science and engineering. A key perspective driving this field is the development of sustainable and innovative treatment processes that can simultaneously achieve pollutant removal and resource recovery. Current research focuses on developing novel treatment technologies such as advanced oxidation processes, membrane separation, adsorption, and biological treatment systems for emerging contaminant control. Additionally, resource recovery strategies are being explored to achieve water reuse or obtain valuable compounds from waste streams, including nutrients, metals, and energy-rich materials. This research area encompasses innovative treatment process developments, mechanistic studies, analytical method optimizations, and resource recovery applications. The ultimate goal is to establish sustainable and economically viable technologies that can address both environmental protection and resource utilization challenges in an integrated manner.

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## Editor-in-Chief

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