Special Issue

Applications of Advanced Oxidation Technologies in Water and Wastewater Treatment

Message from the Guest Editors

The presence of persistent (micro)pollutants, including pesticides, pharmaceuticals and personal care products (PPCPs), and per- and polyfluoroalkyl substances (PFASs) in the environment has emerged as a significant global concern. Advanced oxidation processes (AOPs), such as ozonation, Fenton, and UV/H2O2, have demonstrated promising potential as effective technologies for the removal of these persistent contaminants from water and wastewater. This Special Issue aims to compile cutting-edge research on the application and advancement of AOP technologies across various contexts, including wastewater treatment plant upgrades and water reuse.

In addition to investigating the efficiency of AOPs for micropollutant removal, this Special Issue encourages studies that evaluate the environmental sustainability of AOP technologies throughout their entire life cycle within the framework of global carbon reduction commitments. We welcome contributions that address both the technical and environmental aspects of AOP implementation in water and wastewater treatment, aiming to provide a comprehensive overview of the field.

Guest Editors

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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