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

Dr. Xuetong Yang
Dr. Rui Zhang
Dr. Yang Hu

Deadline for manuscript submissions

closed (20 December 2025)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/223196

Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/journal/water

About the Journal

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

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Water Resources) / CiteScore - Q1 (Aquatic Science)

MDPI