Special Issue

Advanced Oxidation and Photocatalytic Approaches for Efficient Degradation of Organic Pollutants in Water Treatment

Message from the Guest Editors

Organic pollutants can pose significant threats to human health and the environment if not properly treated. Advanced oxidation processes (AOPs) and photocatalytic approaches represent promising solutions due to their ability to generate highly reactive species, such as hydroxyl radicals, which can oxidize a wide range of organic compounds to non-toxic end products like carbon dioxide and water. The significance of this Special Issue lies in the critical need to improve water quality and ensure safe drinking water globally. The rising prevalence of organic pollutants in water systems necessitates the development of more effective and sustainable treatment technologies. By focusing on advanced oxidation and photocatalytic techniques, researchers aim to address the current limitations of water treatment efficacy, reduce environmental impact, and pave the way for more widespread and cost-effective solutions in water purification. This research also contributes to the broader field of environmental science by providing insights into the mechanisms and optimization of processes that can be applied to various environmental remediation challenges.

Guest Editors

Dr. Liping Wang
College of Geology and Environment, Xi'an University of Science and Technology, Xi'an 710054, China
Dr. Changyu Lu
College of Water Resource and Environment, Hebei Geo University, Shijiazhuang 050031, China

Deadline for manuscript submissions

closed (20 January 2026)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/224906

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