water

an Open Access Journal by MDPI

IMPACT FACTOR 3.0

CITESCORE 5.8

Removal of Trace Organic Pollutants in Water Using Advanced Oxidation Technology

Guest Editor:

Dr. Feilong Dong
College of Environment, Zhejiang University of Technology, Hangzhou 310014, China

Deadline for manuscript submissions:
20 February 2025

Message from the Guest Editor

With the development of industry and population growth, the problem of trace organic pollutants in the water is becoming increasingly serious. Traditional water treatment processes are often ineffective in removing these pollutants to meet the required standards. Advanced oxidation technologies, with their advantages of high efficiency, fast speed, and lack of selectivity, demonstrate good application prospects and market potential. Advanced oxidation technologies are based on the generation of strong oxidizing free radicals, such as sulfate radicals ($SO_4^{\cdot-}$) and hydroxyl radicals (·OH), which decompose complex organic molecules into smaller substances or completely mineralize them into CO_2 and H_2O. Conventional advanced oxidation technologies include Fenton and Fenton-like technologies, ozone oxidation technology, photocatalysis, photo-Fenton, persulfate, and electrochemical oxidation. This Special Issue aims to review the current status and hazards of trace organic pollutants in water and the research progress of advanced oxidation technologies in treating trace organic pollutants, providing a new approach for future trace organic pollutant control.

water

IMPACT FACTOR 3.0

CITESCORE 5.8

an Open Access Journal by MDPI

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

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.

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 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
𝕏@Water_MDPI