Special Issue

Research on Advanced Oxidation Water Treatment Technology Based on Electrochemical/Chemical Technology in Emerging Pollutants Removal

Message from the Guest Editors

The increasing presence of emerging pollutants in various environments poses serious risks to ecosystems and human health. Advanced oxidation processes (AOPs) based on electrochemical and chemical technologies have emerged as promising alternatives.

This Special Issue is dedicated to recent advances in AOPs for the detoxification of pollutants in environmental systems. Topics of interest include, but are not limited to:

·The development of novel electrode materials;
·Elucidation of reaction mechanisms and degradation pathways for emerging contaminants;
·Process optimization and kinetic modeling;
·Innovative reactor designs and scale-up of AOPs equipment;
·Hybrid systems that integrate electrochemistry with photocatalysis, ozonation, or other complementary techniques;
·Applications across diverse environmental matrices, including industrial wastewater, municipal sewage, groundwater, and contaminated soil;
·Comprehensive assessment of removal efficiency, transformation products, and ecological impacts;
·Green and sustainable engineering evaluations, such as energy consumption, economic feasibility, and lifecycle assessment of AOPs technologies.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Separations offers the scientific community a high-quality, open-access journal option with rapid time-to-publication without any sacrifice of a rigorous peer-review process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).