Special Issue

Advanced Oxidation Processes for the Treatment of Emerging Organic Pollutants

Message from the Guest Editors

The presence of emerging organic pollutants—such as pharmaceuticals, personal care products, endocrine-disrupting compounds, and industrial chemicals—in water and wastewater has become a critical environmental concern. These contaminants are often persistent, biologically active at low concentrations, and inadequately removed by conventional treatment technologies. Advanced oxidation processes (AOPs) offer effective solutions for the degradation of emerging organic pollutants through the generation of highly reactive oxidizing species. Recent progress in catalyst development, process design, and system integration has significantly enhanced the efficiency and sustainability of AOP-based treatment technologies. This Special Issue aims to present recent advances in AOPs for the treatment of emerging organic pollutants in water and wastewater. Topics of interest include process fundamentals and reaction mechanisms, heterogeneous and environmental catalysis, hybrid and integrated treatment systems, separation processes, and scale-up considerations.

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Deadline for manuscript submissions

28 February 2027

Processes

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 5.7

mdpi.com/si/271693

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