Special Issue

Advanced Oxidation Technology for Refractory Pollutants Removal

Message from the Guest Editors

Organic pollutants pose a significant threat to ecosystems and human health, driving the need for efficient wastewater treatment technologies. Advanced oxidation processes (AOPs) have emerged as promising solutions due to their ability to generate highly reactive species that degrade persistent organic contaminants, including dyes, phenols, pharmaceuticals, and trace pollutants. AOPs encompass various techniques, such as photocatalytic, Fenton, electrochemical, ozone, and catalytic oxidation. Although historically perceived as costly for industrial-scale applications, recent advancements and process optimizations have improved their feasibility, particularly when integrated into broader treatment systems or combined with bioprocesses. Their flexibility enables their use as primary, pre-treatment, or polishing steps in wastewater management. This Special Issue aims to advance knowledge of AOPs by encouraging innovative research on organic pollutant removal. Contributions may explore new techniques, optimization strategies, cost-effective applications, and future prospects, fostering multidisciplinary discussions on sustainable water treatment solutions.

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Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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