Special Issue

Applications of Catalytic Ozonation in Wastewater Treatment

Message from the Guest Editors

This Special Issue focuses on applying catalytic ozonation in wastewater treatment, an advanced oxidation technology (AOT) that has shown remarkable efficacy in removing organic pollutants. Catalytic ozonation leverages the high reactivity of ozone, enhanced by catalysts, to break down complex contaminants into less harmful byproducts, significantly improving water quality. Despite its promising performance, the practical application of this technology is often hindered by factors such as reaction conditions, the presence of coexisting impurities, and the stability of catalysts. This issue addresses these challenges by exploring innovative strategies to optimize the catalytic processes and enhance efficiency. We encourage submissions investigating catalytic ozonation's underlying reaction mechanisms, novel catalysts' development, and case studies demonstrating successful applications in various wastewater matrices. Topics may include but are not limited to, the design and characterization of catalysts, synergistic effects in catalytic systems, and integrated approaches for sustainable wastewater management.

Guest Editors

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Deadline for manuscript submissions

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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

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