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Advanced Oxidation Processes for Emerging Contaminant Removal

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Message from the Guest Editors

Dear Colleagues,

Cost-effective removal of various emerging contaminants in water matrices is a major challenge in water and wastewater treatment. In this regard, advanced oxidation processes (AOPs) have been considered a promising option because the highly reactive radicals such as hydroxyl, sulfate, chlorine, and nitrogen radicals generated in AOPs can effectively oxidize a broad range of emerging contaminants. Nevertheless, the practical application of AOPs is challenged by the high energy demand, formation of harmful oxidation byproducts, difficulty in scaling-up, etc. Both novel mechanistic understanding and improved engineering design are needed to overcome the challenges and create effective transfer of academic research output and practical applications of AOPs. This special issue will focus on studies on the mechanistic understanding, developmment, and implentation of AOPs for the removal of ermerging contaminants in water and wastewater treatment, including ozone-, UV-, H2O2-, persulfate-based AOPs, electricity-driven AOPs, and photocatalytic AOPs. Research articles, reviews, and short communications on relevant topics are welcomed.







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Message from the Editor-in-Chief

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