



New Insights in Catalytic Oxidation Processes for Water Treatment

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Message from the Guest Editors

Catalytic oxidation processes have been considered as promising for water and wastewater treatment. During the catalytic oxidation processes, highly reactive radicals such as hydroxyl, sulfate, chlorine, and nitrogen radicals are generated to oxidize a broad range of refractory organics (emerging contaminants and certain inorganic pollutants, etc) or to increase biodegradability as a pre-treatment prior to an ensuing biological treatment. However, how to produce and utilize reactive radicals effectively and stably are very crucial to catalytic oxidation processes. The practical application of catalytic oxidation processes is challenged by the reaction rates, harmful byproducts, scaling-up, etc. This Special Issue will focus on the kinetic studying, mechanistic understanding, and large-scale applications of catalytic oxidation processes for water and wastewater treatment, including ozone-, UV-, H₂O₂-, Cl₂-, persulfate-, membrane-based catalytic oxidation; electrocatalytic catalytic oxidation; and photocatalytic catalytic oxidation processes. 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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