Special Issue

Advanced Oxidation Process (AOP) as Remediation Method for Water and Soil

Message from the Guest Editor

The quality grade of water and soil are closely interconnected, and both are threatened by organic pollutants, meaning that systems with high-degradation efficiency and economically sustainable are required. Advanced oxidation processes (AOPs) have already demonstrated their potential for wastewater and contaminated soils containing recalcitrant and toxic compounds. Chemical, photochemical, electrochemical, and sonochemical processes have been developed, but many efforts are still necessary to increase their applications. For a full exploitation of AOPs, the key factors that must be considered are catalytic activity, reactor configuration, and the composition of the treated system, with a deep attention to real operating conditions. This Special Issue aims to enhance the understanding of AOPs for water and soil remediation, at different levels, from fundamentals to large-scale applications and their integration with other technologies in hybrid systems. Authors are encouraged to present their research, and both the experimental and numerical approaches are welcome, as well as review papers.

Guest Editor

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Message from the Editor-in-Chief

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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