Special Issue

Advanced Oxidation Processes toward Challenges in Contaminants of Emerging Concern Treatment

Message from the Guest Editors

Nowadays, water scarcity is driving the urgent need for the improvement of water treatment, especially dealing with the challenges posed by contaminants of emerging concern (CECs). Recent water treatment research has highlighted the ability of advanced oxidation processes (AOPs) to treat a wide variety of contaminants. This Special Issue highlights the recent progress in the field of groundwater and surface water treatment, wastewater treatment toward water/sewage sludge reuse and energy recovery, and contaminated site remediation. We are pleased to invite you to contribute relevant research articles and reviews focusing on (but not limited to) the following topics:

- Behavior and fate of CECs during the advanced oxidation: reaction kinetics and mechanisms, degradation by-products and toxicological aspects;
- Hydroxyl and sulfate radicals based homogeneous AOPs (O3/H2O2, UV/H2O2; UV/persulfate, chlorine-based AOPs, Fenton process);
- Heterogeneous photocatalysis;
- Renewable energy sources and green low-cost materials in AOPs;
- Progress in reactor design and AOPs pilot plant investigation.

Guest Editors

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Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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