Special Issue

Photocatalysis and Advanced Oxidation Processes in Water

Message from the Guest Editor

Over the past decades, water pollution has become a global problem due to rapid industrialization. Among various source of pollutions, persistent organic compounds (POCs), such as bisphenol A, nitrobenzene, chlorophenols, etc., are getting more attention since they have been detected in natural and domestic water sources. The fact is many of these POCs were designed to be biological active and used as example antibiotics. Therefore, those POCs in general retain acute or chronic toxicity even at very low concentrations. What is more concerning is their genotoxicity as they may confer resistance in pathogens and disrupt endocrine in humans and wildlife, leading to multi-generational effects. As a result, it is urgent to find effective ways to remove POCs from water sources. Conventional water remediation technologies are restricted from large-scale applications due to their low efficiency and high cost. In this Special Issue, we wish to cover the most recent advances in AOPs, photocatalysis, and photocatalytic AOPs, such as Fenton or Fenton-like reactions, etc., by hosting a mix of original research articles and short critical reviews.

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

Dr. Jean-Luc PROBST
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