Special Issue

New Perspectives in Environmental Catalysis and Oxidation Processes for Removal of Pollutants from Water

Message from the Guest Editors

Removal of recalcitrant as well as emerging contaminants has attracted a significant amount of researcher interest both from an environmental and a public health point of view. Advanced oxidation processes (AOPs) rely on the formation of reactive oxygen species for redox reactions to achieve degradation of both organic and inorganic species as well as microorganisms present in aqueous systems or air. Generally, AOPs cover homogeneous and heterogeneous catalytic processes, i.e., Fenton and photo-Fenton processes, ozone treatment, and photocatalysis in the absence/presence of chemical oxidizing agents such as ozone, hydrogen peroxide, and/or persulfate. This Special Issue will cover all important topics related to AOPs and photocatalytic oxidative processes in water treatment, with applications in all these important subjects, including, but not limited to, the following: i) practical applications of advanced oxidation processes, ii) heterogeneous catalytic and/or photo-catalytic processes, iii) pollutant abatement, and iv) microorganism inactivation.

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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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