Special Issue

Heterogeneous Catalytic Process for Water Purification

Message from the Guest Editor

The increasing demand for clean water has motivated innovations in water treatment technologies for the remediation of recalcitrant organic contaminants. Heterogeneous catalytic processes, especially advanced oxidation processes (AOPs) involving the generation of various reactive oxygen species (ROS), have recently delivered enormous capability and great potential in the catalytic oxidation of emerging organic pollutants for water purification. This Special Issue aims to consider manuscripts dealing with heterogeneous catalytic processes for water remediation, including basic scientific research and potential practical application studies. The heterogeneous catalytic processes will cover but not be limited to conventional AOPs such as Fenton and Fenton-like reactions, persulfate activation, ozonation, photocatalysis, and photo/electrochemical oxidation methods, and novel molecular oxygen activation and self-purification processes with low energy and resource consumptions will be also included. Studies on the synthesis and application of advanced heterogeneous materials for water and wastewater treatment are particularly encouraged and welcomed.

Guest Editor

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Deadline for manuscript submissions

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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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