Special Issue

Catalytic Processes in Wastewater Treatment: From Mechanisms to Application

Message from the Guest Editor

Catalytic processes play an extremely important role in wastewater treatment, especially for the pre-oxidation step and advanced purification step. One of the keys to the innovation of wastewater treatment technology lies in the breakthrough of the bottleneck of catalytic oxidation technology and the solution of engineering application problems. Papers in this special issue will present novel insights on the mechanisms and application of various catalytic water treatment technologies, such as Fenton/Fenton-like technology, catalytic ozonation technology, photocatalytic technology, electrocatalytic technology, peroxymonosulfate/persulfate activation technology, and so on. Original research articles and reviews are welcome. Research areas may include (but are not limited to) the following: 1) New discovery in catalytic water treatment processes; 2) New mechanisms of catalytic processes in wastewater treatment technology; 3) New materials for catalytic wastewater treatment with high efficiency and low consumption; 4) Application case analyses on catalytic wastewater treatment technology.

Guest Editor

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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

Dr. Jean-Luc PROBST
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