Special Issue

Recent Advances in Photocatalysis in Water and Wastewater Treatment

Message from the Guest Editors

Photocatalysis, an advanced oxidation process (AOP), has emerged as a promising solution for water treatment due to its ability to degrade organic pollutants and inactivate microbial contaminants. This Special Issue aims to showcase the most recent advances in photocatalytic and adsorption-based technologies for decentralized wastewater treatment, with an emphasis on their application to unconventional water reuse in agriculture and other sectors. We invite original research and review articles that focus on innovative and cost-effective solutions for water treatment. Topics of particular interest include, but are not limited to:

- Photocatalytic degradation of organic and inorganic pollutants;
- Development and characterization of novel photocatalytic and adsorbent materials;
- Low-cost decentralized wastewater treatment systems using AOPs and adsorption;
- Mass transfer dynamics and reactor modeling;
- Pilot-scale applications and real-world case studies in decentralized systems;
- Design and optimization of decentralized treatment processes for sustainable water reuse;
- Reuse of treated wastewater in agriculture and other sectors.

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About the Journal

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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