

Advanced Technology of Wastewater Treatment

Guest Editors:

Dr. Abdollah Dargahi

Social Determinants of Health
Research Center, Ardabil
University of Medical Sciences,
Ardabil, Iran

Dr. Amir Shabanloo

Department of Environmental
Health Engineering, Hamadan
University of Medical Sciences,
Hamadan, Iran

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Message from the Guest Editors

The physical, chemical, and microbiological quality of water sources are vital for human health and the environment. The discharge of wastewater and effluents containing toxic organic and mineral substances causes pollution of water sources and environmental deterioration. Innovative advanced oxidation processes (AOPs) are effectively designed and employed today for the mineralization of various organic pollutants and the treatment of industrial wastewater. Unfortunately, the production of toxic intermediates, high energy consumption, and low efficiency are common problems of AOPs. However, these limitations can be overcome by using integrated processes.

Relevant Topics:

1. Application of AOPs based on sulfate radicals and hydroxyl radicals for industrial wastewater treatment.
2. Electrocatalytic degradation processes based on active and non-active anodes to improve the chemical and microbiological quality of wastewater.
3. Identification of toxic intermediates produced during AOPs and their fate.
4. Modeling and optimization of AOPs.
5. Design and application of innovative AOPs for wastewater treatment.





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Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology
and Environment, Centre
National de la Recherche
Scientifique (CNRS), University of
Toulouse, Campus ENSAT,
Auzeville Tolosane, France

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.

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Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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