

Special Issue

Application of Electrochemistry in Wastewater Treatment

Message from the Guest Editor

Physicochemical processes have always played a vital role in wastewater treatment, as they can treat non-biodegradable effluents. Electrochemistry has always stood out, as it has many advantages such as high efficiency, easy scaling, combination, and synergy with other technologies such as fenton reaction, photocatalysis, coagulation and even biological reactors. Additionally, if combined with renewable energy sources, it can provide a unified green solution. Under this perspective, this Special Issue of *Water* welcomes the application of environmental electrochemistry, including: - Electrochemical treatment of agro-industrial wastewater; - Environmental electrochemistry for the removal of persistent pollutants and pathogens; - Design and scale-up of electrochemical reactors; - New electrocatalytic material for wastewater treatment; - Combination of electrochemistry with other processes (electrocoagulation, electro fenton, photoelectrocatalysis) and investigation of synergy; - Electrochemical activation fo persulfate and electrogeneration of hydrogen peroxide; - Microbial fuel cells; - Modeling of environmental electrochemistry.

Guest Editor

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Deadline for manuscript submissions

closed (15 January 2022)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



mdpi.com/si/62614

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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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