Special Issue

Application of Electrochemical Treatment in Water Purification

Message from the Guest Editors

Electrochemical processes are a truly innovative type of process for water and wastewater treatment, including anodic oxidation, cathodic reduction, the electro-Fenton process, etc. Electrochemical treatment has good application prospects in the removal of refractory organics, emerging contaminants, and pathogenic microorganisms. In electrochemical treatment, it is important to understand the removal mechanisms of the pollutants, including the direct/indirect oxidation processes, the generation and reaction of various radicals, the transfer and transformation of the target pollutants, and dynamics and thermodynamic analysis. We welcome the application of electrochemical technology in actual water treatment, such as drinking water, municipal wastewater, and industrial wastewater, whose stability and limitations should be taken into account. Moreover, the energy consumption and cost assessment of electrochemical treatment compared to traditional technologies are also crucial for its practical applications.The will consider studies that reflect the forefront development of electrochemical technology in the field of water treatment.

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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

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