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Application of Electrochemical Treatment in Water Purification

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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.<false,>The Guest Editors will consider studies that reflect the forefront development of electrochemical technology in the field of water treatment.<false,>

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Message from the Editor-in-Chief

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