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Applications of Electrocatalysts for Water Treatment: Recent Advances

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Message from the Guest Editors

Electrochemical processes with electrocatalysts as core components would be one of the most direct methods to control and monitor the redox transformation and separation of aqueous pollutants. The electrocatalytic water treatment process involves direct charge transfer, generation of reactive O/Cl/H species, and capacitive sorption of ions, among others. The key requirements to achieving a broad application is to engineer the electrocatalytic materials with suitable properties. On the other hand, the electrochemical water treatment processes have been commercially available for many years. Submissions to this Special Issue on "Applications of Electrocatalysts for Water Treatment: Recent Advances" are welcome in the form of original research papers or short reviews on all aspects of electrochemical water treatment, featuring the state-of-the-art developments on electrocatalysts and electrochemical processes as well as the application of existing materials/processes in field environments. Research findings on electrochemical redox processes are of prime importance to this Special Issue, while parallel attention will be given to electro-deionization technologies.