Special Issue

Research on Application of Advanced Oxidation Technology in Water Purification and Treatment

Message from the Guest Editor

Ecological water environments and water quality are closely linked with human life. However, the discharge of wastewater containing various toxic organic pollutants into water lacking efficient treatment seriously threatens human health and natural environments. Although Advanced Oxidation Technologies (AOTs) are considered promising for refractory organics degradation, several shortcomings, including inactivation of catalysts, low utilization of oxidants, unwanted adverse reactions, and seriously inhibitory effects in complex systems, still limit AOTs' application in wastewater treatment. However, deep insight into catalytic mechanisms, including the confinement effect, reactive oxygen species (ROS) transformation, charge migration and interface interaction, and possible degradation pathway and intermediates can promote advancement in this field. This Special Issue presents a platform for scholars to share current research and new findings concerning AOTs (Fenton/Fenton-like reactions, catalytic ozonation, photocatalytic oxidation/reduction, electrocatalysis, chlorine disinfection, etc).

Guest Editor

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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

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