Special Issue

Advanced Oxidation Processes (AOPs) for Water Treatment

Message from the Guest Editor

The research on the application of different physcochemcial processes based on the in situ production of reactive oxygen species has been showing impressive growth in recent years The objective of this issue is to present recent advances in the field of environmental applications of advanced oxidation processes (AOPs) Therefore, this issue will cover research on the application of different advanced oxidation processes, including but not limited to photocatalysis, photo-Fenton, activated persulfate , UV/H2O2, sonochemistry, ozonation and electrochemical oxidatiom as well as hybrid processes for (a) industrial wastewater treatment, (b) removal of micro-pollutants and emerging contaminants from water and wastewater, (c) air purification systems, (d) water disinfection (with particular emphasis on the fate of antibiotic resistance genres), and (e) energy (hydrogen production or CO2 reduction) (f) Process modelling , hybrid processes and scaling up (pilot plant studies), Research on the synthesis and applications of smart catalytic materials for environmental applications is especially encouraged while we also welcome critical reviews.

Guest Editor

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Message from the Editor-in-Chief

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.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

Editor-in-Chief

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