Special Issue

Advanced Oxidation Processes for Wastewater Treatment in Chemistry, Engineering, and Environmental Sciences

Message from the Guest Editors

Advanced Oxidation Processes (AOPs) represent a class of important procedures for the effective removal of xenobiotics, often refractory to biodegradation. As a result, the number of studies investigating the abatement of these compounds by advanced oxidation technologies is steadily increasing, also showing an interesting level of interdisciplinary collaboration between chemists, engineers, eco-toxicologists, and environmental scientists. On the other hand, the need for longer treatment times and greener processes has led to more efficient technical solutions, ranging from new photocatalytic materials to better reactor design at both lab and plant scale. Potential topics of interest for this Special Issue include, but are not limited to, the following aspects of AOPs:

- Kinetic studies and reaction mechanism identification
- Environmental fate of treated water streams and by-products identification
- Experimental techniques, lab-scale reactors
- Catalytic and photocatalytic materials
- Reactors and process design
- Environmental and eco-toxicological assessments

Keywords: Advanced oxidation processes; Wastewater treatment; Pollutants removal; Environmental protection

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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