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Special Issue on

Advanced Oxidation Processes for Wastewater Treatment 2014

CALL FOR PAPERS

Growing concerns about the environmental pollution have resulted in the development of new environmental technologies to reduce and minimize waste. Due to the inability of biological and physical treatment processes to treat highly polluted toxic wastewater, present research is mainly focusing on the development of cost-effective and eco-friendly treatment methods. Efforts have been made to develop various advanced oxidation processes (AOPs) for wastewater treatment. One of the advantages of AOPs is the complete mineralization of the pollutants present in wastewater. Both homogeneous and heterogeneous AOPs such as semiconductor photocatalysis, photo-Fenton process, and UV/H_2O_2 and UV/O_3 processes have been successfully used for wastewater treatment.

In this special issue, we invite scientists working in the respective research areas to submit original research articles as well as review articles which discuss the recent developments in either artificial or solar light assisted AOPs for wastewater treatment.

Potential topics include, but are not limited to:

- Photo-Fenton and Fenton-like processes
- Semiconductor photocatalysis
- Sensitized degradation of pollutants
- UV/H_2O_2 and UV/O_3 processes
- Photochemical oxidation of organic pollutants
- Sonolytic processes
- Solar energy utilization for wastewater treatment

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/ijp/aop14/.

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