



Intensified Technologies Based on the Fenton Process for Recalcitrant Wastewater Treatment

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Message from the Guest Editors

Dear Colleagues,

Widely used compounds such as pharmaceuticals, disinfectants, surfactants, etc., cannot be properly treated and are increasingly entering the environment. Thus, Fenton's oxidation stands out due to its simplicity, non-selective nature, and use of low-price and non-toxic reagents. However, the main drawbacks include the need for a highly acidic environment, the constant loss of iron species, and the generation of iron sludge. To address these concerns, there is ongoing exploration and development of intensified Fenton technologies with the aim of increasing efficiency, lowering operating costs, and reducing chemical consumption and processing time.

This Special Issue seeks high-quality articles focusing on strategies to intensify the Fenton process and overcome limitations. Potential topics:

- Homogeneous Fenton and Fenton-based processes;
- Heterogeneous Fenton-based process;
- Solar photo Fenton and Fenton-based processes;
- Electrochemical Fenton process;
- Bio-electro-Fenton process;
- Combining a Fenton-based process with other treatment technology;
- Innovative reactor design and operation to intensify Fenton-based processes.

Special Issue



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Message from the Editor-in-Chief

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