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Removal of Trace Organic Pollutants in Water Using Advanced Oxidation Technology

Guest Editor:

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Message from the Guest Editor

With the development of industry and population growth, the problem of trace organic pollutants in the water is becoming increasingly serious. Traditional water treatment processes are often ineffective in removing these pollutants to meet the required standards. Advanced oxidation technologies, with their advantages of high efficiency, fast speed, and lack of selectivity, demonstrate good application prospects and market potential. Advanced oxidation technologies are based on the generation of strong oxidizing free radicals, such as sulfate radicals ($\text{SO}_4^{\cdot-}$) and hydroxyl radicals ($\cdot\text{OH}$), which decompose complex organic molecules into smaller substances or completely mineralize them into CO_2 and H_2O . Conventional advanced oxidation technologies include Fenton and Fenton-like technologies, ozone oxidation technology, photocatalysis, photo-Fenton, persulfate, and electrochemical oxidation. This Special Issue aims to review the current status and hazards of trace organic pollutants in water and the research progress of advanced oxidation technologies in treating trace organic pollutants, providing a new approach for future trace organic pollutant control.



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Special Issue



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Message from the Editor-in-Chief

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