

Textile Waste Water Treatment by Advanced Oxidation Process

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Abstract: *The color produced by dyes in water makes it aesthetically unpleasant & can acute or chronic effects on exposed organisms which depend on the concentration of the dye and the exposed time. Many dyes are considered to be toxic and even carcinogenic. Textile industries processes are most industrial that release colored wastewater containing dye that become major environmental concern. EF is the effective process to be used for removal of acidic, basic and color dyes from Wastewater. EF process is the one of the types of APOs are most widely used for waste water treatment of various types of industrial wastewater and efficient wastewater treatment since photocatalyst is environmentally friendly process and considerable advantages such as ability to destroy pollutants without exertion of potentially hazardous oxidants. Electro Fenton is the popular AOPs and constitutes an indirect electrochemical way to generate OH in aqueous solutions and was developed and extensively applied by Brillas' and Outram's groups which developed in order to implementation of a new and powerful advanced oxidation method. In this process Fenton's reagent is electrochemically generated in situ avoiding the use of high quantities of H₂O₂ and iron (II) salt.*

Keywords: Waste Water Treatment, AOPs, Textile Dyes, Electro Fenton, Color and Dyes Removal, etc.

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