

عنوان مقاله:

Free Chemicals - Sonoelectrochemical Treatment as a Biocompatible Procedure for Decolorization of Anthraquinone Dyes

محل انتشار:

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خلاصه مقاله:

Dye compounds are known as one of the most important environmental pollutants. Up to now, several methods have been offered to eliminate these pollutants from industrial wastes especially in the textile industry. A method that has received a great deal of attention in recent years is sono- electro- chemical method. In this study, using the Central Composite Design, the interactive effects of four important variables including pH, initial dye concentration, time and applied potential on sono- electro- chemical decolorization of Basic Blue FY were optimized and investigated. Based on the obtained results in the absence oxidant agents, the best index for decolorization in optimal conditions including pH of ۹.o, initial dye concentration of ۳or. µM, time of 9r min, and a potential of o.A1 V corresponding to the design by .% the CCD was 9A%. It was experimentally found to be 9F.o %, and the Chemical Oxygen Demand (COD) was 9Y

كلمات كليدى:

Sonoelectrochemical, Basic Blue FY, Free Chemicals, Degradation

لینک ثابت مقاله در پایگاه سیویلیکا:



