

عنوان مقاله:

.Biodegradation of the Textile Dye Malachite Green by Microalgae Cosmarium sp

محل انتشار:

چهارمین همایش ملی بیوتکنولوژی ایران (سال: 1384)

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خلاصه مقاله:

In recent years the ability of microorganisms on decolorizing of textile wastewater has received much attention due to the environmental persistence and toxicity of these pollutants. In this paper biodegradation of triphenylmethane dye, Malachite Green (MG), by Cosmarium species was investigated. The results obtained from batch experiments revealed the ability of the algal species in removing the dye. The effects of operational parameters (temperature, pH, initial dye concentration and algal concentration) on decolorization efficiency were examined. Our results indicated that the dependence of the specific decolorization rate on dye concentration could be described by Michaelis-Menten .model. All assays were conducted in triplicates

کلمات کلیدی:

Biodegradation, Malachite Green, Cosmarium, Dying Wastewater, Decolorization

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