

عنوان مقاله:

COPPER FERRITE SPINEL AS POTENTIAL SORBENT FOR ADSORPTION OF BRILLIANT GREEN FROM AQUEOUS SOLUTIONS

محل انتشار:

هجدهمین همایش شیمی فیزیک ایران (سال: 1394)

تعداد صفحات اصل مقاله: 4

نویسندگان:

S Hashemian - *Chemistry Department, Islamic Azad University, Yazd Branch, Yazd, Iran*

A Dehghanpor - *Chemistry Department, Islamic Azad University, Yazd Branch, Yazd, Iran*

M Moghahed - *Chemistry Department, Islamic Azad University, Yazd Branch, Yazd, Iran*

خلاصه مقاله:

Dye removal from different industrial wastewaters is of major environmental concern because dyes create severe environmental problems [1-3]. Brilliant green is classified in the dyestuff industry as a triarylmethane dye and also used in pigment industry. Brilliant green also is used as a direct dye for silk, wool, jute, and leather and to dye cotton that has been mordanted with tannin. Adsorption has gained favor in recent years due to proven efficiency in the removal of pollutants from effluents to stable forms for the above conventional method. Removal of brilliant green by different sorbents was studied [4]. Spinels are very important magnetic materials because of their interesting magnetic and electrical properties with chemical and thermal stabilities¹. They are an important class of metal oxides and have the general chemical composition of AB_2O_4 . In this paper, the ferrite spinel of $CuFe_2O_4$ was prepared by chemical co-precipitation method. Adsorption of brilliant green dye by nanospinel was investigated. The kinetics of adsorption was also evaluated.

کلمات کلیدی:

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