

## *Removal Of Cationic Dyes From Aqueous Solution By Adsorption On Peanut Hull*



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### **Removal Of Cationic Dyes From**

The removal of cationic blue at pH = 8 reached 99.7%, and the removal of cationic red at pH = 12 reached nearly 100%. The adsorption rates for both dyes on the ceramics were quick, and the kinetics well fitted the pseudo-second-order kinetic model and the Elovich model.

### **Adsorption removal of cationic dyes from aqueous solutions ...**

Three consecutive steps are involved in the removal of dye from water on bentonite. First, the adsorbate species migrate from the bulk liquid phase to the outer surface of adsorbent particles (film diffusion). Secondly, the dye species move within the micro- and macro-pores of adsorbent particles (pore diffusion).

### **Removal of a cationic dye from aqueous solutions by ...**

Crini G, "Kinetic and equilibrium studies on the removal of cationic dyes from aqueous solution by adsorption onto a cyclodextrin polymer", *Dyes and Pigments*, vol.77 (2), pp. 415 - 426, 2008. Freundlich HMF, "Über die adsorption in lösungen, *Zeit, Phys.Chem.(Leipzig)*, vol.57 A, pp. 385 - 470, 1906.

### **Removal of Cationic Dye from Aqueous Solutions by Modified ...**

Xiuping Su,<sup>a</sup> Lin Liu,<sup>a</sup> Yong Zhang,<sup>a</sup> Qian Liao,<sup>a</sup> Qianhan Yu,<sup>a</sup> Rangju Meng,<sup>a,b</sup> and Juming Yao <sup>a,\*</sup>. The removal of cationic methylene blue (MB) and anionic acid red 1 (AR1) dyes from aqueous solution was studied using cellulose-g-p(AA-co-AM) bio-adsorbent (CP bio-adsorbent).

### **Efficient removal of cationic and anionic dyes from ...**

In addition, removal of the cationic dye also carried out by using *Trametes versicolor* from white root fungus for pH 3,6. Decolorization efficiency was high (90 %) with *Trametes versicolor* for 7 days, whereas little decolorization was observed with Horseradish peroxidase enzyme.

### **Removal of Cationic Dye from Textile Industry Wastewater ...**

In addition, simultaneous removal of the reported dyes was also carried out and more than 98% removal efficiency was obtained, therefore Sulfonated-oxidized activated carbon appears as an economical and effectual adsorbent for removal of MB, CV, Th from industrial waste waters.

### **Highly Fast and Efficient Removal of some Cationic Dyes ...**

Enhanced adsorptive removal of anionic and cationic dyes from single or mixed dye solutions using MOF PCN-222† Haichao Li,<sup>a</sup> Xinyu Cao,<sup>a</sup> Chuang Zhang,<sup>a</sup> Qing Yu,<sup>a</sup> Zijian Zhao,<sup>a</sup> Xuedun Niu,<sup>b</sup> Xiaodong Sun,<sup>b</sup> Yunling Liu,<sup>b</sup> Li Ma<sup>\*ac</sup> and Zhengqiang Li<sup>\*a</sup> Metal-organic frameworks (MOFs) are attractive for the removal of industrial dyes from aqueous pollution.

### **Enhanced adsorptive removal of anionic and cationic dyes ...**

The applicability of banana peel as low cost adsorbent for the removal of cationic Malachite green (MG) and Methylene from aqueous solution has been studied. Banana peel, like other biomass has high content of carbohydrate and fiber with different functional groups such as hydroxyl (OH), carboxylic (COOH) and amines (NH<sub>2</sub>). This has been confirmed from the spectrum obtained from FTIR analysis.

### **Cationic Dyes Removal Using Low-Cost Banana Peel Biosorbent**

The main objective of the present study was to assess the potentiality of mango leaf powder (MLP) as a low cost adsorbent for the removal of MB from aqueous solution in batch system. The effects of different parameters including solution pH, biosorbent dosage, initial dye concentration and contact time were studied.

### **A potential low cost adsorbent for the removal of cationic ...**

Removal of a cationic dye from wastewater by adsorption onto natural adsorbents H. Ouasif <sup>1\*</sup>, S. Yousfi <sup>1</sup>, M.L. Bouamrani <sup>1</sup>, M. El Kouali <sup>1</sup>, S. Benmokhtar <sup>2</sup>, M. Talbi <sup>1</sup> <sup>1</sup>Laboratoire de Chimie Analytique -Chimie des Mélanges, Département de Chimie des Matériaux, Casablanca, Maroc. <sup>2</sup>Laboratoire de Recherche en Chimie des Polymères et des Matériaux

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**Removal of a cationic dye from wastewater by adsorption ...**

removal of cationic dye (basic red 18) from aqueous solution 541 Rafatullah M., Sulaiman O., Hashim R. and Ahmad A., (2010), Adsorption of methylene blue on low-cost adsorbents: A review, Journal of Hazardous Materials, 177, 70-80.

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