NGHIÊN CỨU XỬ LÝ Cr(VI) TRONG DUNG DỊCH BẰNG VẬT LIỆU THAN BÙN TÂN PHÚ VỚI XƠ DỪA

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SUMMARY

The Tan Phu peat and coconut fiber materials (TBXD) were successfully fabricated by the activated with 2 % HCl for 6 hours and then processed with coconut fiber at a weight ratio of 1:1 was studied. The product is characterized by methods of thermal analysis (TGA), scanning electron microscopy (SEM). The results show that the TBXD materials can adsorb Cr(VI) in aqueous solution to the optimum at the concentration of Cr(VI) 5.10^{-3} N in a period of 24 hours. But when there are impurities Na⁺; Ca²⁺; Al³⁺ concentration is 0.1 M or more, the adsorption capacity of the material decreases in the direction Na⁺ > Ca²⁺ > Al³⁺.

The Langmuir model was used to describe the adsorption isotherm. The maximum adsorption for TBXD materials reached 1.855 mg/g.