



Single and multielementary isotherms of toxic metals in aqueous solution using treated coconut shell powder

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ABSTRACT

Solid residues of the agroindustries are abundantly available at low cost and, because of their adsorption properties, they could be advantageously used for the treatment of industrial effluents. In this work, base-treated green coconut shell powder was applied to remove toxic metals from synthetic aqueous effluents. It was shown that Langmuir and Freundlich isotherms describe the adsorption features in single and multicomponent systems.

Keywords: Adsorption; Green coconut shell powder; Toxic metals; Adsorption isotherms

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