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Adsorption of lead (II) from industrial waste water by tea leaf leaves as adsorbent

Luma A. Mohammed Ali

Department of Chemistry, College of Science, University of Babylon, Babylon, Iraq

Abstract: The aim of this work is to absorb the lead (II) with an occasional value adsorbent (heavy metal) that comes within the effluents of textile industries throughout removal processes. though industrial carbon may be a most popular material for (heavy metals) removal, its wide unfold use is restricted because of high price. At present,tea leaf leaves as an occasional value material for removing (heavy metals) hasassorted researchers operating during this field. within the gift work, tea leaf leaves within the diversity of crushed was achieved for removing (heavy metal) taking lead (II) as exemplar system. The tea leaf leaves procuredfrom India and was achieved the parameters like (dose of adsorbent,agitation time, particle size and initial dye concentration). associate quantity of (0.1) g/l of tea leaf leaves may take away (99.5 %) from associate solution of (50) ppmlead (II) with the shaking time (150) minute. The standardFreundlich and Irving Langmuir isotherm paradigm due to the equilibria sorption statements.

The results indicate that tea leaf leaves may well be used as an occasional value different to industrial activated charcoal in waste to removal of (heavymetal).

Keywords :lead (II), sorption capability , isotherm models , black tea.

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