

PSEUDO - ISOTHERMS FOR CADMIUM ION ONTO PEANUT SHELL - POLYANILINE NANOCOMPOSITE

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TÓM TẮT:

The results were expressed adsorption of PANi-peanut shell nanocomposite by chemical method for cadmium ion in aqueous solution. The Cd(II) adsorption ability of the nanocomposite depends on contact time and pH value. The experimental adsorption data fitted into both pseudo -Langmuir and pseudo-Freundlich adsorption isotherm models. The adsorption followed pseudo-second order kinetic model very well. The maximum adsorption capacity of that nanocomposite was 156.25 mg/g which caculated from the pseudo-Langmuir equation.