

ELIMINATION OF HEAVY METALS BY ADSORPTION ON A LOCAL BIOMATERIAL: ALFA

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Abstract:

Water resources in Algeria are limited, vulnerable and unequal distributed.

The growth in demand for water has been exacerbated by a period of intense drought and characterized by a very large rainfall deficit. To reduce this deficit in the water balance, the reuse of treated wastewater (R.E.U.E.) offers a water resource potential for recovery in agriculture.

However, this latter raises different Agricultural and health problems.

Indeed, if this water is a potential additional water, the heavy metal content presents a risk of contamination of soil and groundwater and threatens public health and the environment. The elimination of heavy metals is thus an important point in the problem of water treatment. In this context, we conducted a study which focuses on the adsorption of metal cations on a local biomaterial which is the Alfa. The objective of this theme is to explore the feasibility of using agricultural fibers such as Alfa to decontaminate the waters loaded in heavy metals, thereby contributing to its enhancement. The tests focused on the study of the capacity of fixations of copper and cadmium on the Alfa at different grades.

Keywords: Processing, Heavy metals, vegetable fibers, Alfa,

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