A review on toxic cadmium biosorption from contaminated wastewater

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\textbf{ABSTRACT}

The presence of cadmium(II) in water possesses human health risks. Cadmium(II) has the harmful effects of high toxicity to the living organism in water. This review presents a compilation of biosorption of cadmium(II) by different biomaterials for the efficient removal of cadmium(II) from contaminated water. Kinetic models and adsorption isotherms have been discussed. The aim of this review is to present a broad view of adsorbents that have been identified and used for cadmium(II) removal from contaminated waters. The removal efficiency and adsorption of different biosorbents have been compared in this review. The influence of pH on removal of cadmium(II) efficiency has also been discussed.

\textbf{Keywords:} Toxicity; Cadmium; Biosorption; Kinetic models; Adsorption isotherm