

Phytoremediation Potential of Tomato for Cd and Cr Removal from Polluted Soils

Authors : Jahanshah Saleh, Hossein Ghasemi, Ali Shahriari, Faezeh Alizadeh, Yaaghoob Hosseini

Abstract : Cadmium and chromium are toxic to most organisms and different mechanisms have been developed for overcoming with the toxic effects of these heavy metals. We studied the uptake and distribution of cadmium and chromium in different organs of tomato (*Lycopersicon esculentum* L.) plants in nine heavy metal polluted soils in western Hormozgan province, Iran. The accumulation of chromium was in increasing pattern of fruit peel<edible all="" and="" bio-concentration="" but="" cadmium="" concentration="" detected="" determination="" examined="" factor="" for="" fruits.="" in="" more="" neither="" no="" nor="" not="" of="" p="" peel="" phytoextraction="" phytostabilization="" polluted="" pulp="" revealed="" roots.="" shoots="" showed="" soil.="" soils="" suitability="" suitable="" than="" that="" the="" tomato="" translocation="" was="" with=""> </edible>

Keywords : cadmium, chromium, phytoextraction, phytostabilization, tomato

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