



Removal of Lead (II) using Bio-adsorbent

By Tiyasha Kanjilal

LAP Lambert Academic Publishing Okt 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - Utilization of biological waste in treatment of industrial effluents is an emerging field of research. In present context of waste management, bio-adsorbent based techniques are well-known as an eco-friendly approach, for cleaning up various industrial effluents. The efficiency of water hyacinth, as low cost bio-adsorbent has been investigated for removal of lead ions from aqueous solution. Equilibrium behavior of this adsorbent was investigated by performing batch adsorption experiments to study the effect of the major parameters such as contact time, initial concentration of metal ion and adsorbent dose, etc. Response surface methodology was applied to predict the optimal condition of lead ion removal. The correlation of the operating variables and the response based on face centered central composite design are fitted to quadratic polynomial equation. The quadratic term of initial metal ion concentration showed significant influence on the extent of removal. This work showed the potential of the water hyacinth as bio-adsorbent for removal of lead ions from paint industry effluent. 60 pp. Englisch.



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