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Sustainable Management and Utilization of Sewage Sludge pp 51–69

Bioleaching Approach for Enhancing Sewage Sludge Dewaterability

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Abstract

Sewage sludge is an unavoidable byproduct of the wastewater treatment course. Rising population, and growing urbanization contributes to a sizeable quantity of sewage sludge production. Disposal of such a huge amount of waste requires environmentally safe and economically viable options. Though the applications of sludge to the agricultural field can help recycling in nutrients and organic matter, the heavy metal in sewage sludge, various toxic substances and pathogens often make it unfit for direct agricultural application without any treatment. Moreover, the sewage sludge is very bulky and hence the cost of transport and/or subsequent processing/treatment becomes difficult. Dewatering