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Sustainable Management and Utilization of Sewage Sludge pp 125–145

Emerging Nutrient Recovery Technologies in Sewage Sludge Management

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Abstract

Sewage and sludge constitute liquid and solid fractions of the city sewerage system. The raw sewage usually consists of water carrying various solids partly in solution and partly in suspension. Sewage is a rich source of plant nutrients and in addition, contains suspended solids in the form of solid organic matter. Sewage has been used in agriculture from the beginning of civilization but due to less industrialization in the past, the contamination of sewage with heavy metals and other toxic materials is limited. But rapid industrialization resulted in building up of toxic substances like heavy metals and pathogens in sewage and further