Table of Contents

Chapter 1: Wastewater Treatment and Soil Remediation

Significance of Algae in eliminating and deactivating pathological index Organisms in Wastewater Stabilization Pond Systems
A review- bioremediation of oil sludge contaminated soil
Isolation and identification of chromium-tolerant bacterial strains and their potential to promote plant growth
Reduction crystallization of heavy metals from acid treated phosphogypsum effluent utilizing hydrazine as a reducing reagent
Implementation of solidification/stabilization process to reduce hazardous impurities and stabilize soil matrices
Chapter 2: Ecosystem and Solid Waste Management
Deforestation effects on land surface energy coupling: a data-driven perspective
The role of stakeholders in managing polythene and plastic waste in coastal cities of Sri Lanka: a case study of the Dehiwala-Mt. lavinia municipal council region
Leaching kinetics of gold mine tailings: the removal of manganese and iron by sodium carbonate
Evaluation of raw and chemically treated waste phosphogypsum and its potential applications50

Tebogo Mashifana

Assessment of carbon dynamics in Ecuadorian forests through the Mathematical
Spatial Model of Global Carbon Cycle and the Normalized Differential
Vegetation Index (NDVI)55
Llerena Silvia, Tarko Alexander, Kurbatova Anna and Kozhevnikova
Polina
Chapter 3: Marine Environmentology and Pollution Control
Non-Linear pattern analysis of El Ni ño's impact on tropical precipitation65 <i>X L Yu, and S R Zhang</i>
Rapid oil spill simulation within Ghana's coastal waters
Developing sustainable school guidelines: the case of Egypt
Study on the prevention and control measures of China's urban road traffic noise pollution
Author Index87