## **Table of Contents**

## **Chapter 1: Environmental Analysis and Pollution Control**

Screening of Solid Waste as Filler Material for Constructed Wetlands3 Dina M R Mateus and Henrique J O Pinho
Study on the Short-term Treatment Technology of Landfill Leachate11 Jin Li, Fengnan Liu, Feng Ding, Xueren Dong and Qinqin Xu
A Health Impact Assessment of Traffic Restrictions during Madrid NO2 Episode
The Analysis of Control Technology of Non-point Pollution and Endogenous Pollution of the Water Environment
Geographical Distribution and Risk Assessment of Heavy Metals in Nearby River of Heap Bioleaching Plant: A Case Study At the Zijin Copper Mine, China
Fraction Transformation of Cr in Leersia hexandra Swartz Constructed Wetland
Application and Analysis of Bayesian Method and Grey Relational Analysis in Marine Water Quality Evaluation
Spatio-Temporal Change of Drought and Flood in northern Henan Province During 1961-2015 Based on Standardized Precipitation Evapotranspiration Index
Insecticide Usage in Lotus-Fish Farming and Its Impact on Fish Culture and Grower Health

S. Bumroongsook

## **Chapter 2: Environmental and Chemical Engineering**

A Preliminary Study on Application of MBR + NF/RO (Membrane Bio-Reactor + Nanofiltration/Reverse Osmosis) Combination Process for Landfill Leachate Treatment in China
Low Cost and Long Durability Material for Water Treatment: Titania-Coated Cement
Optimization of Heavy Metal Removal by Sulfate Reducing Bacteria in a High Concentration Zn-fed Fixed Bed Bioreactor Using Plackett Burman Design Experiments
Silver Nanoparticles Synthesised within the Silica Matrix in Hyperstoichiometrical of Mercury from Aqueous Solutions97 A V Korobeinyk and V J Inglezakis
Iodide Removal by Use of Ag-Modified Natural Zeolites102 A V Korobeinyk, A R Satayeva, A N Chinakulova and V J Inglezakis
Study of Molybdenum Extraction from Alkali Roasted and Water Leaching of Ferro-Molybdenum Slag by Using TOA and TBP108 Wei-Sheng Chen, Wen-Cheng Liang and Cheng-Han Lee
Chapter 3: Urban Planning and Sustainable Development
Preliminary Study on Thermodynamic Urban Design Based on Prototype Research of Tropical Rainforest
A Study on Daylighting Design of Urban Mid-Rise Housing from the Perspective of Carbon Emission Reduction Effect: Shanghai, China128 <i>Y Huang, L Li and C E Llewellyn</i>
Research on Evaluation and Factors of Regional Green Innovation Performance Based on ER-XIANG Dual Theory
Development of Bicycle Transport in the City of Sofia as Part of the Concept for Stable Urban Mobility

## **Chapter 4: Energy and Power Engineering**

Comparison of the Cyclic Variation of a Diesel-Ethanol Blend in a Diesel	
Engine	.159
M H Mat Yasin, A F Yusop, R Mamat, A A Abdullah and N H	
Badrulhisham	
A Study on an Absorption Refrigeration Cycle by Exergy Analysis	
Approach	.166
Soheil Mohtaram, Wen Chen and Ji Lin	
Author Index	<b></b> 171