

Table of Contents

Chapter 1: Environmental Pollution Control and Resource Management

Acoustic Agglomeration Process of Fine Particles in a Resonance Structure.....	3
<i>Chen-hao Shi, Jian Zhang, Yun Zhao and Jie Liang</i>	
Modelling the Effect of Black Carbon and Sulfate Aerosol on the Regional Meteorology Factors.....	12
<i>X Ma and W Wen</i>	
The Impact of Meteorological Factors on PM _{2.5} Variations in Hong Kong.....	18
<i>X Li, Y J Feng and H Y Liang</i>	
Component, Disperse and Morphological Composition of Ambient Air Dust Contamination in the Zones of Mining-Processing Enterprises.....	28
<i>S Y Zagorodnov, A A Kokoulina and S V Klein</i>	
Spatial Variation and Assessment of Heavy Metal and Radioactive Risk in Farmland around a Retired Uranium Mine.....	36
<i>Jie Liang, Chen-hao Shi, Guang-ming Zeng, Min-zhou Zhong and Yu-jie Yuan</i>	
Research on Model and Related Parameters of Supercritical CO ₂ Injection into Depleted Reservoir.....	48
<i>Pinghua Ma and Jun He</i>	
Study on Photocatalytic Degradation of Endocrine Disrupting Compound.....	55
<i>Bhagwan Pralhad Parihar, Smita Gupta and Mousumi Chakraborty</i>	
Lead Determination and Heterogeneity Analysis in Soil from a Former Firing Range.....	61
<i>Ricardo Urrutia-Goyes, Ariadne Argyraki and Nancy Ornelas-Soto</i>	
Gas Mitigation in Paper Production.....	67
<i>AS Santos and C Bittencourt</i>	

Insecticide Usage and Chemical Contamination Assessment in Asiatic Pennywort.....75
S Bumroongsook

Evaluation of the Efficiency of Selective Collection in a Small Town on the State of Rio Grande do Sul – Brazil.....79
V E Schneider, M Poletto, D Peresin, S H Z Carra and D Vanni

Adsorption of Paraquat Dichloride by Graphitic Carbon Nitride Synthesized from Melamine Scraps.....85
A Watcharenwong, A Kaeokan, R Rammaroeng, P Upama and P Kajitvichyanukul

Study on Spatial Model of Land Use Based on CA - Markov Model after Returning Cropland to Forest.....92
Chun-xia Qiu, Dong Han, Qian-kun Dong and Qin-qin Mao

Chapter 2: Environmental Biology and Environmental Biotechnology

Erosion of *Brassica incana* Genetic Resources: Causes and Effects.....103
A Muscolo, G Settineri, C Mallamaci, T Papalia and M Sidari

Review in Strengthening Technology for Phytoremediation of Soil Contaminated by Heavy Metals.....109
Chishan Wu, Xingfeng Zhang and Yang Deng

MICP and Advances towards Eco-Friendly and Economical Applications.....114
Adharsh Rajasekar, Charles K.S. Moy and Stephen Wilkinson

Chapter 3: Energy Engineering and Management

Isolation and Characterization of Biosurfactant Producing Bacteria for the Application in Enhanced Oil Recovery.....123
Niraj Prasad, Sumita Dasgupta, Mousumi Chakraborty and Smita Gupta

Optimal Energy Management of an Academic Building with Distributed Generation and Energy Storage Systems.....130
C Roldán-Blay, C Roldán-Porta, E Peñalvo-López and G Escrivá-Escrivá

Production of Biodiesel Using a Membrane Reactor to Minimize Separation Cost.....	138
<i>O A Olagunju and P Musonge</i>	
Author Index.....	147