

Symposium from Cross-strait Environment & Resources and 2nd Representative Conference of Chinese Environmental Resources & Ecological Conservation Society 2010

Linyi, China
6 – 8 July 2010

Editors:

**Henry Zhang
Xingxiu Yu**

ISBN: 978-1-5108-4671-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the Aussino Academic Publishing House
All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact the Aussino Academic Publishing House
at the address below.

Aussino Academic Publishing House
14 Union St
Riverwood, NSW 2210

Phone: 61 29 584 8084

aaph_sydney@hotmail.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of Content

Chapter One: Water and Soil Erosion Monitoring and Solution

1	Responses of Rain Splash Erosion and Soil Crust Development to Particle Size <i>CHENG Qinjuan, MA Wenjun, CAI Qiangguo</i>	1
2	Adapting RUSLE and GIS to model soil loss in Yishusi River catchment, China <i>JING Guanghua, YU Xingxiu, LIU Qianjin</i>	10
3	The Study of Dynamic Change of Soil Erosion Intensity in Yimeng Mountain Area Based on RS & GIS <i>LI Zhenwei, YU Xingxiu, LIU Qianjin</i>	16
4	Change of Soil Surface Roughness of Splash Erosion Process <i>ZHENG Zicheng, HE Shuqinc, WU Faqid</i>	23
5	Study of Land use Change Mechanism Based on RS/GIS in Linyi City, China <i>MENG Xiaoyun, PAN Xueqin</i>	31
6	Quantitative Assessment on Benefits of Soil and Water Conservation at Small-watershed Scale in Red Soil Region of Southern China - A case study of Xingguo County, Jiangxi Province <i>LI Decheng, LIANG Yin, SUN Xin</i>	37
7	The Study of YiHe Basin on Soil Erosion Simulation Using WATEM/SEDEM Model <i>LIU Zheng-jia, YU Xing-Xiu, LIU Qian-Jin</i>	48
8	Ecological Prediction Model of Soil Erosion in Small Watershed Based on GIS <i>ZHANG Li-Ping, FU Xing-Tao, NI Han-Bin</i>	54
9	Soil Erosion in the Black Soil Region of Northeast China <i>FAN Haoming, CAI Qiangguo, ZHOU Lili, WU Min</i>	62
10	Research and Exploitation of the Edible Aromatic Plants <i>GAO Hai-sheng, JIA Yanru, LIU Suwen</i>	70
11	Erosion Development of Gully System in Loess Residual Upland Gully Region <i>ZHAO Xiaoguang, SONG Shijie</i>	74
12	Research on spatial variation of soil nutrient in Linyi <i>YU Xingxiu, ZHANG Hanyu</i>	79
13	Design and Implementation of the Small Watershed Afforestation Site Management Information System (SWASMS) Based on GIS <i>FAN Liang-Xin, TONG Yan, NIU Hai-Peng</i>	86
14	Vertical change of the soil erosion and its controlling factors from 1986 to 2005 in Linyi country, China <i>LIU Qianjin, YU Xingxiu</i>	92
15	Influence of Image Fusion Methods on Land Cover/Use Classification <i>PAN Xueqin</i>	98
16	Summary of the Application of "3S" Techniques in Monitoring Soil Erosion <i>TIAN Hongyun</i>	103



17	Primary Research on Grain Size Characteristics and its Implication of Loess at Changyi, Shandong Province <i>XU Shujian</i>	107
18	Transformation of Unit Current Power by Experiment on Loess Slope <i>SHEN Zhenzhou, YAO Wenyi, LI Zhanbin</i>	11
19	Characteristics of Soil and Water Losses on Different Land Uses in Low and Deep Hills of North Sichuan, China <i>ZHU Xuemei, LIN Lijin, SHAO Jirong</i>	119
20	Effects of Slopes and Rainfalls on Soil Organic Carbon under Water Erosion in Regions of Hilly Purple Soil <i>HE Binghui, GUO Tian, ZHAO Xiaoli</i>	125
Chapter Two: Ecology Recovery and Environment Protection		
1	Analysis of the Coupling between Ecosystems and Economy in Mountainous Regions — A Case Study in Anji County of Zhejiang Province in China <i>ZHANG Yunqi</i>	133
2	Analysis on the Temporal Variation of Environmental Impact Using the STIRPAT model - A Case Study in Sichuan Province, China <i>TANG Wei, ZHOU Wei</i>	146
3	Public Participation in Environmental Impact Assessment in China <i>WANG Xinli</i>	151
4	The Assessment of Hydrochemistry Characteristics and Status of Eutrophication of Dongping Lake, Shandong Province, China <i>CHEN Shiyue, CHEN Yingying, SUN Weibo</i>	156
5	Study on the Construction and Evaluation of Rural Ecological Environment Index Systems in Xinmi City <i>CAO Lian-hai, QU Ji-hong, CHEN Nan-xiang</i>	160
6	Research on Ecologic Rehabilitation of Land Temporarily Used for Road Engineering <i>CHEN Aixia, HU Jianrong, CHEN Bei</i>	166
7	Time Series Analysis of Ecological Footprint of Linyi City <i>CHEN Lei</i>	172
8	The Study of Green Ecological Design to the Scenic Building <i>CHEN Xing</i>	180
9	Review on Holocene Paleoflood Research Methods and Indexes <i>DING Zhaojing, SHEN Hongyuan, JIA Yufang</i>	184
10	Study on Nutrients Release at Water-Substrate Interface of Constructed Wetland in Estuary Zone of Xinxue River, Nansi Lake, China <i>LI Bao HU Xianghui</i>	190
11	Simple Analysis Based on the Ecological Footprint of Linyi City for Sustainable Development <i>LIANG Renjun, QI Xiangzhen</i>	195

12	Study on Rural Tourism Mode in Ecological Fragile Area: Yimeng Mountain Area <i>LIU Zhongmei , CHEN Lei</i>	201
13	Research on Optimizing Strategies of Non-Optimal Tourism Resource Area: A Case of Yishui Tourism Phenomenon <i>LU Wenjing , LIU Yan</i>	206
14	Utilization of Heritage Tourism Resources in Jiain Mountains Giant Panda Sanctuary <i>MA Yuewei, ZHAO Yongtao</i>	212
15	Spatial Distribution of Population Density in Linyi Based on GIS <i>WANG Chengling , GAO Huazhong</i>	220
16	Non-linear Responses of Morphology and Growth <i>Fargesia nitida</i> to Altitude in Wolong Nature Reserve, Sichuan, Southwestern China <i>PAN Hongli, LIU Xingliang, LI Maihe</i> <i>The above essay is missed out due to version upgrade.</i>	n.a
Chapter Three: Nonpoint Water Pollution Sources Control		
1	Ecological Security Assessment on four Ecotypes Zones in Manas River Basin over the past 30 Years <i>WANG Yue-jian, XU Hai-liang</i>	226
2	Water Security Problems and Countermeasures of Linyi City <i>SHEN Hong-yuan, ZHANG Hong-mei, ZHAO Min</i>	236
3	Non-point Source Pollution Reduction by Filter Strips in Water and Soil Environment <i>Roy R. Gu, Mahesh Sahu</i>	242
4	The Problem and Countermeasure of Lake Environment along the Route of South-to-North Water Transfer in Shandong Province <i>LU Honghai , CHEN Shiyue</i>	249
5	Study on Decolorization of Bromocresol Green in Wastewater <i>ZHUANG Huirong</i>	254
6	Research Advance on Water Pollution Control of Urban Wetlands Aquatic Plants <i>ZHAO Xingyun, ZHAO Xingxue, AN Lingkun</i>	259
7	Selective extraction of 2,4-dimethylphenol from contaminated river water using MISG as solid phase adsorbent <i>SONG Xingliang</i>	265
8	Preliminary Study on the Fractionation of Chlorine Isotope in the Distillation of Seawater <i>SUN Aide, XU Qingcai, LI Guangyuan</i>	269
9	Simultaneous Analysis of Cd, Cr, Cu, Pb and Zn by Cloud Point Extraction and Inductively Coupled Plasma Optical Emission Spectrometry in Water <i>XU Qingcai, SUN Aide</i>	274
10	Effect of Contour and Down-slope Tillage Methods on the Eutrophication Risk in Runoff Water <i>YU Xingxiu , MA Qian</i>	281



Chapter Four: Pollution from Mining and Industry Research

1	Effects of cadmium ions on the activity and conformation of horseradish peroxidase <i>in vitro</i> <i>LIU Zengxin , LI Aiqin</i>	286
2	Effect of La (III) on the activity and distribution of peroxidase in horseradish plant cell <i>GUO Shaofen, ZHAO Xiaohui</i>	292
3	Review of Upgrading Researches of Biomass Pyrolysis Oil to Improve its Fuel Characters <i>YANG Lan</i>	298
4	Absorption and Accumulation of Heavy Metals for <i>Phyllostachys pubescens</i> in Catchment of Southern Jiangsu Province <i>Bao Xian Tao, ZHANG Jin-chi</i>	306
5	Researches on Lead and Cadmium Accumulation in Maize and Soybean <i>WANG Chongchen, PENG Wang, HAO He</i>	310
6	Researches on Heavy Metals Accumulation of Greening Trees species in Lanzhou City <i>DU Zhong, REN Jun, TAO Ling</i>	314
7	Study on Spatial Difference of Urban Land Intensive Use in Shandong <i>GONG Shaoyan</i>	322
8	Application of AHP in Mineral Resources Security Evaluation <i>LI Wenjun</i>	328
9	Environmental Impact Assessment for Acid Pickling in Steel Industry <i>TENG Wanqing</i>	333
10	Feasibility Analysis of Waste Phosphate Rock Treatment for Pollution Control of Coal Waste Piles with Spontaneous Combustion by Inhibiting Pyrite Oxidation <i>ZHANG Lei, XU Yunqiang</i>	339

Chapter Five: Global Climate Change and Evolution

1	Advances in Tree-ring Research Methods <i>CHENG Rui-qin, ZHAO Xing-yun</i>	344
2	Realizing Environment Pressure and Economic Growth Decoupling Challenges <i>WANG Chongmei</i>	350
3	Climate Variation and Abrupt Change in Upper and Middle Yishu River during 4910-3030 cal. yr BP <i>GAO Huazhong</i>	357
4	An Analysis on China's Low-carbon Economic Development based on Gray Relation Theory <i>TAO Aixiang</i>	362
5	Review on Environmental Evolution Research in Poyang Lake <i>JIA Yufang, SHEN Hongyuan, DING Zhaojing</i>	370
6	Study of Environmental-friendly Consumption Mode Under Urban Environment Protection in Shandong <i>LI Xuezhi, ZHAO Yande</i>	375

7	Study on the Relationship between Economy Growth and Environment Pollution of Shandong Province	
	<i>TIAN Jian, ZHAO Yande</i>	381
8	Study on the Environmental Effects of Inhabitant Consumption Structure Change in Linyi City	
	<i>ZHAO Min, ZHAO Yande</i>	385
9	Development Indicator and Comprehensive Appraisal on Energy Efficient and Environment Friendly Society – Case Review from Shandong Province	
	<i>YANG Zhongchen</i>	390