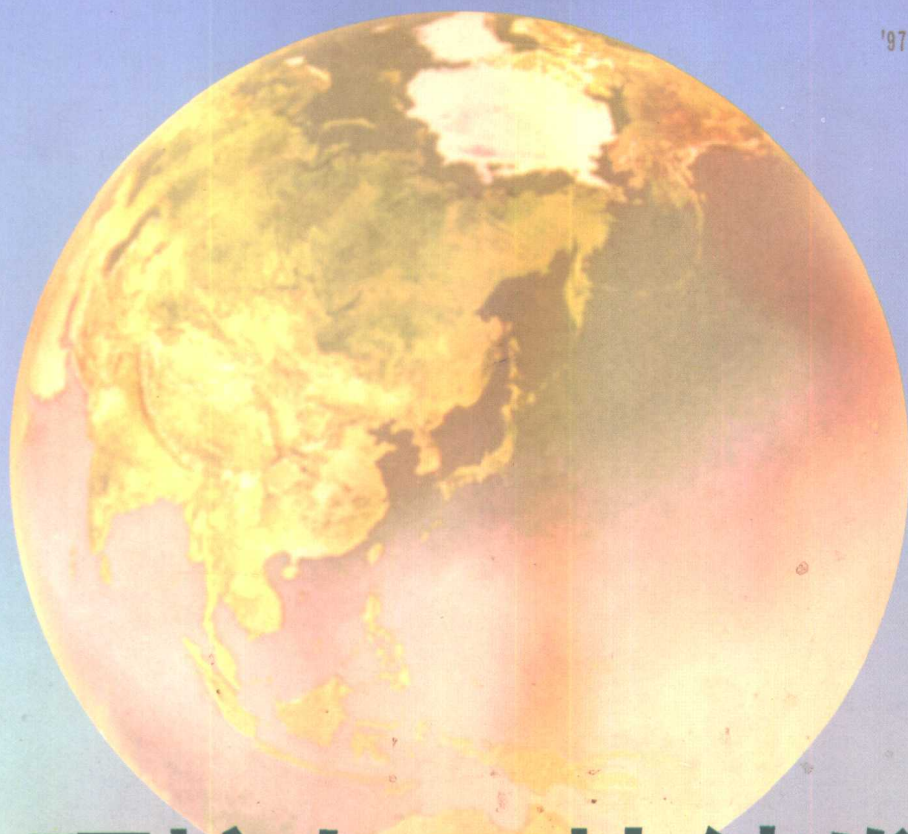


中日友好环境保护中心
1997年论文集

'97 Paper Collection of the Sino-Japan
Friendship Centre
for Environmental Protection



环境与可持续发展

ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

张 坤 主编

Chief Editor Zhang Kun

气象出版社

环境与可持续发展

Environment and Sustainable Development

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内 容 简 介

中日友好环境保护中心是国家环境保护总局直属的综合性研究、管理执行机构,是国家环境保护总局在科技、信息、政策研究方面的技术支持系统,同时也是实施国际环境技术合作和开展国际交流的窗口。本论文集汇集了中日友好环境保护中心1997年在各个领域的研究和工作成果,反映了该中心在环境科学研究及应用、环境政策研究、环境技术支持和管理服务等方面所取得的成绩。

本文集可供国内外同行进行学术交流,也可供环保科技、管理人员以及大专院校师生参考。

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16-46 / 1

前 言

中日友好环境保护中心(以下简称“中日中心”)是利用日本政府无偿援助资金,中日两国政府合作建设的国家重点环境保护项目,于1996年5月5日建成投入使用。中日中心建筑面积34000平方米,建有科研实验楼、国际会议厅、专家招待所、学员宿舍、餐厅、动力能源楼等。中日中心拥有各种研究、实验设备3000余台件,有一流的环境分析测试仪器,收集处理环境信息的计算机系统,防治大气、水质、固体废弃物污染的模拟实验装置,开展宣传教育的音像制作设备。

中日中心是国家环境保护总局的综合性研究、管理执行机构,是实施国际环境技术合作和开展国际交流的窗口。下设五部一室一所,即环境信息部、环境战略和政策研究部、环境技术交流与公共教育部、开放实验室、公害防治技术部、环境监测技术部、国家环境保护总局标准样品研究所。前四个部门,又分别是国家环境保护总局信息中心、国家环境保护总局环境与经济政策研究中心、国家环境保护总局宣传教育中心和国家环境分析测试中心。另外,还有挂靠机构国家环境保护总局废物进口登记管理中心和中国环境管理体系认证机构认可委员会秘书处、中国认证人员国家注册委员会环境管理专业委员会秘书处。

中日中心职工人数随着业务扩展逐年增加,截至1997年止,有职工259人。其中,工程师以上的科技人员有147人,包括65名高级研究人员。

《环境与可持续发展(1997年论文集)》是中日中心1997年论文汇编,共收入论文95篇。论文分五个部分,即环境政策、全球环境、环境科技、环境管理及其他。

论文中,有国内外关注的环境政策和全球环境问题研究,如《联合国气候变化公约》京都会议的中国对案、合作解决亚洲地区城市环境问题、中国可持续发展的环境对策、环境与贸易关系等方面的课题研究,以及海洋、农业、林业、乡镇企业、环保产业等领域的环境经济政策研究。

论文中,有环境污染防治技术的研究,如城市垃圾处理、脱硫技术、纳米技术等课题研究;有分析测试技术研究,如大气酸雨中污染物,水中总氮、汞、铍以及固体废渣中污染物等的分析测试研究。

论文中,有环境标准样品的研制专题,如苯系物、二氧化硫、多环芳烃、铍等标准样品的制作研究。

论文中,有开展国际环境技术合作的经验探索,有环境管理、环境教育、环境宣传等方面的工作报告,以及环境与社会主义精神文明建设方面的课题研究。

本论文集反映了中日中心广大科技人员1997年为改善我国环境质量、开展国际环境技术合作所取得的成果,包含的研究内容广泛,有的课题研究达到了国内领先水平。

本论文集中未包括中日中心公害防治技术部、环境监测技术部的研究论文。

本论文集在编辑过程中,得到许多同志的热情支持与帮助,在此一并表示谢意。

由于时间仓促,还有一些论文未能编辑进本文集,而收录入该集的论文中有的也存在着不足之处,欢迎批评指正。

编者

1998.2.23

Preface

The Sino-Japan Friendship Center for Environmental Protection (hereinafter referred to as the "Sino-Japan Center") is a key national environmental project with the aid given by Japanese government and co-construction by the two governments. Put into use on May 5, 1996, the Sino-Japan Center has a research & lab building, an international convention hall, a guesthouse for experts, accommodations with a dining hall for trainees, and a power and energy building with a total floor of 34 000m². The Sino-Japan Center is equipped with a variety of over 3 000 research and experiment facilities, including first-rate environmental monitoring and analysis equipment, computer system for collecting environmental information data, simulation experimental instruments for prevention and control of air, water and waste pollution, for making audio-video products for public education.

The Sino-Japan Center is an organization combining research, management and implementation which is directly affiliated to the National Environmental Protection Agency, China (NEPA). It serves as an excellent link for international exchange. The Center consists of five Departments, one Division and one Institute, i. e. Department of Environmental Information, Department of Environmental Strategy and Policy Research, Department of Environmental Technology Exchange and Public Education, Open Laboratory, Department of Public Hazards Prevention and Control Technology, Department of Environmental Monitoring Technology, and Sampling Research Institute of NEPA. The first four departments listed above are in fact four divisions under NEPA-named respectively the Information Center, Policy Research Center for Environmental and Economy, Public Education Center and National Environmental Analysis and Monitoring Center affiliated to NEPA.

The number of staff has been increasing. Till the end of 1997, there were 259 employees, of which 147 are researchers with title above engineer including 65 senior researchers.

Environmental and Sustainable Development (Academic Paper Collection' 97) is a compilation of academic papers from Sino-Japan Center of 1997. It gathered 95 papers including five parts, i. e. Environmental Policy, Global Environment, Environmental Science and Technology, Environmental Management and others.

This Collection includes some hot issues like environmental policy research and global environment. It contains such contents as China's countermeasure to attend Kyoto Conference on Framework Convention on Climate Change, how to deal with urban environmental problems within Asia area, environmental policy for China's sustainable development and research on the relationship between environment and trade. It also refers to environmental economic policy research for such sectors as ocean, agriculture, forest, township and village enterprises and environmental protection industry.

Some papers reflect research results on pollution prevention and control technologies, e.

g. municipal solid waste disposal, desulfurization and millimicron technology, and analyzing and testing method for pollutants of acid rain, total nitrogen, mercury and beryllium in wastewater, and pollutants in solid waste.

Papers about preparation and research on environmental standard samples, such as benzene and its derivative, sulfur dioxide and beryllium, are also included in the Paper Collection.

The Paper Collection also contains such contents and experience exploitation for international cooperation of environmental technology, environmental management, environmental publicity and the relationship between environmental protection and the construction of socialist spiritual culture.

This Paper Collection reflects the success achieved by the staff of Sino-Japan Center for the improvement of China's environmental technology. It consists of broad contents and some research results have reached the first rank in the nation.

The Collection doesn't include the papers from the Department of Public Hazards Prevention and Control Technology and the Department of Environmental Monitoring Technology.

Great support and assistance are given during the compilation of the Collection, here we'd like to express our gratitude to them all.

Due to the time limitation, some papers have not been able to be included in this Collection, and for our knowledge limitation, some papers in this Collection may have imperfections. Criticism is welcomed.

The Compiler
February 23, 1998

目 录

第一部分 环境政策

当代热点——建设可持续发展城市	曹凤中等(3)
中国可持续发展的环境经济政策(英文)	夏 光(8)
中国可持续农业的资源环境政策思考	任 勇(14)
城镇可持续发展问题的环境经济学思考	孙炳彦(21)
可持续发展的环境经济学分析——以江苏大丰县为例	胡 涛等(26)
美国的可持续发展指标	曹凤中(32)
中国城市环境综合整治定量考核的经验与理论研究	夏 光(39)
企业环境经济政策评价方法初探	孙炳彦(46)
中国企业经营机制及其环境经济行为	贺翔燕等(49)
清洁生产的环境经济学分析	周国梅(57)
中国塑料生命周期评价:环境影响及再生利用(英文)	周 新(62)
关于荒漠化防治政策的探讨	刘玉平等(74)
人口增长对荒漠化的驱动作用	刘玉平等(79)
水土保持政策体系框架构思	任 勇等(85)
水土流失经济损失估算及环境经济学思考	任 勇等(91)
日本污染防治经验与中国环境政策导向	任 勇(96)
环境保护战略原则	田春秀(106)
环保:一个大产业	田春秀(110)
九十年代初期中国污染损失估算与思考	孙炳彦(112)
全国大气污染损失估算	赵毅红(118)
太原市区大气污染损失预测模型的探讨	孙炳彦等(124)
艾比湖流域精河县沙漠化的经济损失估算	钱 翌等(128)
江苏大丰县水污染的环境经济学分析	钱志丽等(132)
我国乡镇企业的大气、水污染及对策	曹凤中(137)
引起乡镇企业污染的主要原因是什么?——在重庆市作的一项定量研究	夏 光(144)
层次分析法在乡镇工业污染原因分析中的应用	赵毅红等(149)
重庆巴县乡镇工业环境污染造成经济损失的估算	孙炳彦(153)
乡镇企业发展对农业生态环境影响的剖析及对策建议	曹凤中等(158)
提高林产品和非林产品的供给能力:森林生态系统退化的现状、原因及对策	胡 涛等(165)
新疆草地生态系统退化的现状、原因与对策	胡 涛等(170)
青藏高原小麦高产原因的农田生态环境因素探讨	喻朝庆等(181)

第二部分 全球环境

合作解决亚洲地区城市环境问题·····	解振华(191)
贸易与环境问题的中国案例研究(英文)·····	叶汝求(198)
关于中国政府出席《联合国气候变化框架公约》京都会议对策的建议及对案 ·····	张 坤等(208)
东南沿海地区陆地污染源对海洋环境的影响及对策·····	程子峰等(219)
全球环境筹资机制·····	曹凤中等(228)
论作为基本人权的环境权·····	夏 光(233)
国际环境形势与重大对策研究问题分析·····	任 勇(236)
外商投资的环境污染问题分析·····	夏 光(242)
贸易对环境负面影响的原因分析·····	由亚男等(247)
我国东部沿海有机锡的检出及其生态环境意义·····	任剑璋等(251)
美国的环保产业政策·····	王玉振(255)
环境标志及其对中国的意义·····	沈晓悦等(259)
ISO 14000 与绿色包装·····	曹凤中等(265)
实施 ISO 14000 突破绿色贸易壁垒·····	曹凤中(269)
中国企业必须向 ISO 14000 靠拢·····	贺翊燕(273)

第三部分 环境科技

酸雨相关污染物及其测定技术(英文)·····	全 浩(279)
熔融还原解毒后铬渣的稳定性研究·····	兰嗣国等(285)
用电子微束技术分析表征大气颗粒物(英文)·····	刘威德等(293)
城市生活垃圾理化特性研究·····	兰嗣国等(295)
铬渣解毒的一个安全途径(英文)·····	兰嗣国等(298)
臭氧水中传质模型的研究·····	徐富春等(305)
荒漠化评价的理论框架·····	刘玉平(310)
环境标准样品研制与应用·····	张太生(318)
环境监测质量控制样品管理系统的研究·····	张效苏等(324)
苯系物标准样品研制·····	彭鸿俊等(328)
大气二氧化硫(片剂)标准样品的研究与应用·····	田 文等(334)
多环芳烃标准样品的研制·····	封跃鹏等(340)
水中铍环境标准样品的研制·····	邢书才(345)
化工废渣中半挥发性有机有害物的 GC/MS 分析·····	施钧慧等(348)
内标定量分析土壤中的半挥发性有机物·····	施钧慧等(352)
高压液相色谱法测定废水中的苯胺和硝基苯胺·····	李瑞琴(356)
ISS-2 锌渣标准样品中 Zn、Pb、Cd 全量浸取研究及与纯水浸提比较·····	刘 方等(361)
正交最小二乘法及其在分析化学中的应用·····	李玉武等(365)
微波消解法测定水样中总氮·····	邢书才等(373)
冷原子吸收法测汞用干燥剂的选择·····	邢书才等(376)

分光光度法测定水中铍的最佳条件选择·····	邢书才(378)
纳米氧化钛光催化降解有机污染物的研究进展·····	吴忠祥等(386)
C-R7A 定量文件综合报表程序开发 ·····	封跃鹏等(388)
我国酸雨的区域特性·····	朱 铭等(391)
美国荷电干式脱硫系统(CDSI) ·····	曹凤中(394)
从日本的经验看城市垃圾的处理与再利用·····	张 琦(397)

第四部分 环境管理

加强合作 发挥作用 促进环保事业的发展·····	张 坤(405)
试论中日环境技术合作的初步经验·····	王桂民(408)
旗帜·方向·定位——环境保护工作地位与政策的有关思考 ·····	夏 光(411)
加大环境实物标准样品研制与应用的力度·····	刘廷国(414)
中日友好环境保护中心对开展中日环境合作的积极作用·····	欧阳讷(417)
把握时机积极推进国家环境信息化建设 ·····	徐富春等(421)
环境管理信息系统(EMIS)建设与 INTERNET 的新认识 ·····	徐富春等(427)
实施 ISO14000 标准 加强环境管理 ·····	李 雷(430)
“环境影响评价”学科建设的几点思考·····	孙炳彦(433)
“捞发菜”问题调查研究报告·····	常仲农等(435)
浅谈科技档案在环保科研中的作用·····	侯耀霞(445)

第五部分 其他

论社会主义道德建设与环境保护·····	张 坤等(451)
了解日本 加强合作·····	张 坤(455)
中国环境教育赴日考察团考察报告 ·····	陈燕平等(462)
关于中国中小学生环境教育教材情况的报告·····	焦志廷等(466)
中国环境教育现状与展望·····	贾 峰(468)
谈高层建筑室外雨水系统的设计 ·····	王占忠等(471)
中日友好环境保护中心供配电系统设计特点分析·····	殷 昀(474)
对社会主义初级阶段精神文明建设规律的认识·····	王运彩(478)
《辉煌的五年成就展》可持续发展馆环境保护部分综述·····	罗 毅等(482)
GLOBE 计划在中国的实施——第二届 GLOBE 计划年会 ·····	贾 峰(484)
欧洲环保点滴——电视片解说词·····	贾 峰(486)
环境保护任重道远——电视专题片解说词·····	贾 峰等(492)

CONTENTS

Part 1 ENVIRONMENTAL POLICY

Heat Topic of the Times—Constructing Sustainable Development Urban	
.....	Cao Fengzhong et al. (3)
China's Environmental Economic Policy for Sustainable Development	Xia Guang(8)
Discussion on Policies for Resources and Environment Toward Sustainable Agriculture of China	Ren Yong (14)
Environmental Economics Thinking of Sustainable Development Issues in Townships	
.....	Sun Bingyan(21)
Environmental Economics Analysis Sustainable Development: A Case Study on Dafeng County	Hu Tao et al. (26)
Indicators for Sustainable Development in the USA	Cao Fengzhong(32)
QES;An Institutional Arrangement for Urban Environmental Management in China	
.....	Xia Guang(39)
A Preliminary Study on Methodology of Environmental Economics Policy Review of Firms	
.....	Sun Bingyan(46)
Enterprise's Operating Mechanism and its Environmental Performances	
.....	He Hongyan et al. (49)
Cleaner Production and its Environmental Economy Connotation	Zhou Guomei(57)
Plastic Cycle in China: With Special Emphasis on Environment and Recycling	
.....	Zhong Xin(62)
Discussion on Policies of Desertification Prevention	Liu Yuping et al. (74)
Driving Action on Desertification by Population Increase	Liu Yuping et al. (79)
Discussion on the Framework of Policy System for Soil and Water Conservation in China	
.....	Ren Yong et al. (85)
Roughly Economic Valuation on Soil and Water Losses in China and Discussion on Relative Economic Instruments	Ren Yong et al. (91)
Japan's Successful Experiences of Pollution Control and its Implications to China's Environmental Polices	Ren Yong (96)
Principles of Environmental Protection Strategy	Tian Chunxiu(106)
Environmental Protection;An Enormous Industry	Tian Chunxiu(110)
Estimation of China's Pollution Damage Cost in Early 1990's	Sun Bingyan(112)
National Losses Evaluation of Air Pollution	Zhao Yihong (118)
Study on Prediction Model of Air Pollution Damage Cost in Urban Area of Taiyuan City	
.....	Sun Bingyan et al. (124)

The Valuation of Economic Damage from Land Desertification in Jinhe County of Ebinur Lake Area	Qian Yi et al. (128)
Environmental Economic Analysis of Water Pollution in Dafeng County, Jiangsu Province	Qian Zhili et al. (132)
Water and Air Pollution in the Township and Village Enterprises and Countermeasures in China	Cao Fengzhong (137)
The Main Reason for Pollution from TVIEs—A Quantitative Study in Chongqing City ...	Xia Guang (144)
The Application of the Analytical Hierarchy Process in the Analysis of the Causes of the Pollution by Township Industry	Zhao Yihong et al. (149)
Valuation on Damage Cost of Environmental Pollution Resulted from Township and Village Enterprises (TVEs) in Baxian County, Chongqing	Sun Bingyan et al. (153)
The Impact of Township and Village Enterprises Development on Agricultural Eco-Environment and Policy Proposal	Cao Fengzhong et al. (158)
Increasing Supplying Availability of Forestry Products and NFPs; The States, Causes and Strategy of Forestry Ecosystem	Hu Tao et al. (165)
Grassland Ecosystem Degradation in Xinjiang Region; the Present States, Causes and Policies	Hu Tao et al. (170)
Analysis of Agro-Ecological Environmental Factors on the Causes for High-Yield Wheat in Qinghai-Xizang Plateau	Yu Chaoqing et al. (181)

Part 2 GLOBAL ENVIRONMENT

To Solve the Urban Environmental Problems in Asia through Cooperation	Xie Zhenhua (191)
Case Studies on Environment and Trade in China	Ye Ruqiu et al. (198)
Suggestions for Countermeasures of Chinese Government to Attending the Kyoto Conference of 《The Framework Convention of Climatic Change of United Nations》	Zhang Kun et al. (208)
Impacts on Marine Environment from Land-based Sources of Pollution in Chinese Southeast Areas and Countermeasures	Cheng Zifeng et al. (219)
Global Environmental Fund-Raising Mechanism	Cao Fengzhong et al. (228)
The Environmental Right as a Basic Human Right	Xia Guang (233)
International Situation on Environment and Some Research Topics on Countermeasures for Chian	Ren Yong (236)
Pollution Problems Caused by Joint Venture and Direct Foreign Investment in China	Xia Guang (242)
Environmental Influence of International Trade and Countermeasure	You Yanan et al. (247)

The Detection and Environment Implication of Organotins in the Coast of the East China Sea Industry	Ren Jianzhang et al. (251)
Review on the Policies of American Environmental Industry	Wang Yuzhen(255)
Ecolabelling and its Implications for China	Shen Xiaoyue et al. (259)
ISO 14000 and Green Package	Cao Fengzhong et al. (265)
Implementation of ISO 14000 to Break Through the Green Trade Barriers	 Cao Fengzhong(269)
China's Enterprises Towards ISO 14000	He Hongyan et al. (273)

Part 3 ENVIRONMENTAL SCIENCE AND TECHNOLOGY

Pollutants Related to Acid Rain and Measurement Techniques	Quan Hao (279)
Stability Research on the Detoxicated-Slag Containing Chromium after Melting-Reducing	Lan Siguo et al . (285)
Analysis and Characterization of Atmospheric Aerosols by SEM-EDX	 Liu Xiande et al. (293)
Studies on the Character of Garbage in Urban Household	Lan Siguo et al . (295)
A Safe Approach to Detoxicate Chromium Slag	Lan Siguo et al. (298)
Study on the Ozone Mass Transfer Model in Water	Xu Fuchun et al. (305)
Theoretic Framework of Desertification Assessment	Liu Yuping(310)
Research,Preparation & Application of Standard Reference Materials for Environment	 Zhang Taisheng(318)
The Study of Manging System on Quality Control Sample in Environmental Monitoring	 Zhang Xiaosu et al. (324)
Development and Research of Reference Matertials of BTEX ...	Peng Hongjun et al. (328)
Devolopment and Use of SO ₂ (tablet) Reference Material in Air	Tian Wen et al. (334)
Development and Research of Reference Materials of PAHs	Feng Yuepeng et al. (340)
Research and Preparation of Reference Material Beryllium in Water	Xing Shuca(345)
Analysis of Semi-Volatile Organic Compounds in Chemical Waste by Gas Chromatography/ Mass Spectrometry	Shi Junhui et al. (348)
The GC/MS Analysis of Semi-Volatile Organic Compounds(SVOC) in Soil Using Internal Standard Method	Shi Junhui et al. (352)
The Determination of Aniline and Nitroanilines in Waste Water by HPLC	 Li Ruiqin (356)
Research for Extraction Methods of Cd, Pb and Zn in Zinc Sludge Reference Material	 Liu Fang et al. (361)
Orthogonal Least Squares Method and Its Application in Analytical Chemistry	 Li Yuwu et al. (365)
Determination of Total Nitrogen in Water by Microwave Digestion	 Xing Shuca(373)

The Selection of Dry Agent During Determining Content of Mercury With Cool AAS	Xing Shucai et al. (376)
The Best Condition on Spectrophotometric Determination of Beryllium in Water	Xing Shucai (378)
Progress in Photocatalytic Degradation of Organic Contaminants on Titanium Dioxide	Wu Zhongxiang et al. (386)
Developing Program of Complex Table of Quantitative File on SHIMADZU	Feng Yuepeng et al. (388)
Regional Characteristics of Acid Rain in China	Zhu Ming et al. (391)
The Charged Dry Desulphurization System	Cao Fengzhong (394)
Treatment and Reuse of Urban Refuse Looking from Japanese Experience	Zhang Qi (397)

Part 4 ENVIRONMENTAL MANAGEMENT

Strengthening Cooperation and Taking Efforts to Promote the Development of Environmental Protection	Zhang Kun (405)
Study on Preliminary Experiences of Sino-Japan Environmental Technology Cooperation	Wang Guiming (408)
Rethinking of China's Environmental Policy	Xia Guang (411)
Research and Application of Strengthening Environmental Reference Materials	Liu Yanguo (414)
The Sino-Japan Friendship Center for Environmental Protection Plays a Positive Role in the Environmental Cooperation Between China and Japan	Ouyang Na (417)
Planning of National Environmental Information System	Xu Fuchun et al. (421)
Relations Between the Environmental Management Information system (EMIS) and INTERNET	Xu Fuchun et al. (427)
Strengthening Environmental Management through the Implementation of ISO 14000	Li Lei (430)
Considerations on EIA	Sun Bingyan (433)
Working Report of Surveying on Fa Cai Vegetable Problem	Chang Zhongnong et al. (435)
Discussing the Effect of Archives for Science and Technology on Environmental Science Research	Hou Yaoxia (445)

Part 5 OTHERS

Discussing on Socialism and Environmental Protection	Zhang Kun et al. (451)
Knowing Japan and Strengthening the Cooperation between China and Japan in Environmental Protection	Zhang Kun (455)
Report of the Investigation of Environmental Education in Japan	Chen Yanping et al. (462)

Report of Environmental Education Materials in Chinese Primary and Middle Schools	Jiao Zhiyan et al. (466)
The Situation and the Prospect of China's Environmental Education	Jia Feng (468)
Rainwater System Design of Tall Building	Wang Zhanzhong et al. (471)
Design Analyze on the Power Supply System of CJFEPC	Yin Yun (474)
Knowledge on the law of Constructing Spiritual Civilization during the Primary Stage of Socialist	Wang Yuncai (478)
The Summary of the Environmental Protection Part of the Sustainable Development Section of <i>the Exhibition of the Achievement of the Splendid Five Years</i>	Luo Yi et al. (482)
The Implementation of GLOBE Programme in China	Jia Feng (484)
Crumbs of Environmental Protection in Europe——Narration of TV Programme	Jia Feng (486)
The Burden of Environmental Protection is Heavy and the Road is Long	Jia Feng et al. (492)

第一部分 环境政策

Part 1 Environmental Policy

