

Article

Study on Air Pollution and Control Investment from the Perspective of the Environmental Theory Model: A Case Study in China, 2005–2014

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Abstract: China has been suffering from serious air pollution for years due to rapid industrialization. However, the relationship between China's air pollution and pollution control schemes remains understudied in the Chinese air pollution literature. Using the Environmental Theory Model, this paper studies the relationship between air pollution and control investment in China for the period 2005–2014 and applies the inverse distance weighted interpolation (IDW) and Pearson correlation methods. As a result, this paper puts forward some policy suggestions for the governance of air pollution in China. The results are as follows: (1) The Pearson correlation coefficient between China's air pollution index (API) and control investment is 0.466 ($p < 0.01$). This shows that the phenomenon of 'Treatment after Pollution' still exists in China's economy; (2) there is an inverted U-shaped relationship that is in accordance with the environmental Kuznets curve between China's air pollution control investment and air pollution; (3) the high-effectiveness of governmental air pollution control is reflected in the 2013–2014 period, where the API of year 2014 decreased by 10.45 from 2013. This shows a one-year lag between exposure to air pollution and the start of control investment. Future research is warranted to concentrate on establishing a model of the relationship between air pollution and control investment or an air pollution risk assessment based on the proportional hazards model (COX) model.

Keywords: air pollution; ArcGIS; economic development; spatio-temporal characteristics; Environmental Theory Model

1. Introduction

Air pollution can directly or indirectly affect human health, causing physical discomfort and leading to disease or even death. Studies have shown that when the human body is exposed to highly polluted air for a long time, the mortality rate increases [1,2]. Furthermore, air pollution has become the fourth primary risk factor for all deaths in China after heart attack, dietary risk and smoking, according to the latest statistics [3]. In recent years, there have been frequent haze weather events in many places in China where the air quality was mostly between 'moderate' and 'unhealthy for sensitive groups'. Studies show that under such air conditions, the mortality rate from cardiovascular and cerebrovascular diseases and the prevalence of asthma and respiratory diseases both increase [4]. In January 2013, a long period of haze hit China and covered a quarter of the land area, affecting nearly half of the population. Because of this, haze days anomalies in the Eastern region lasted more than ten days [5]. During these years, China strengthened its air quality monitoring and enhanced its air

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G Orfield



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Scientific and Technical Aerospace Reports ,1991

Environmental

Education KHRITISH SWARGIARY,2025-05-01 Environmental Education is an essential subject in the contemporary world especially given the alarming challenges that our planet faces due to environmental degradation resource depletion and climate change As the world s ecosystems are under unprecedented pressure from human activity it has become imperative that future generations are not only aware of these issues but are equipped with the knowledge and skills to tackle them The course Environmental Education offered under the Gauhati University Four Year Undergraduate Programme FYUGP aims to do precisely this to educate students on the relationship between humans and the environment the importance of environmental conservation and the urgent need for sustainable development This book Environmental Education is designed to serve as a comprehensive guide for students enrolled in the 5th semester of the Education course It delves into the fundamental concepts challenges and practices related to the environment with a particular emphasis on raising awareness about environmental hazards and promoting conservation efforts By the end of this course students will not only understand the crucial importance of the environment in human life but will also be equipped with the strategies to address the pressing environmental issues that threaten our planet Throughout this book I have made an effort to cover the major facets of Environmental Education which include a clear definition of environment the relationship between humans and the environment and human impact on ecological systems The book also explores significant environmental movements and projects such as the Chipko Movement the Silent Valley Project and the Narmada Valley Project illustrating how communities and governments have responded to environmental challenges The book further engages with environmental ethics and sustainable development encouraging students to reflect on the moral aspects of environmental protection and consider the long term impacts of their actions on future generations Environmental Education is not merely a subject to be studied it is a call to action The information presented here aims to guide students in critically assessing the current state of the environment and to provide them with the knowledge required to make informed decisions that can benefit both society and the planet As they examine environmental hazards and pollution students are encouraged to reflect on the roles they can play in mitigating environmental degradation and promoting sustainability in their communities and beyond Incorporating the Sustainable Development Goals SDGs into the curriculum this book highlights the significance of goals such as Goal 7 Affordable and clean energy Goal 12 Responsible consumption and production and Goal 13 Climate action By integrating these global targets the book empowers students to think critically about their contributions to achieving a sustainable future The relevance of this course is not limited to academic success alone It is a crucial step in preparing students to become responsible global citizens who can contribute meaningfully to environmental stewardship As environmental concerns continue to shape policies economies and societies worldwide it is vital that young minds are engaged and equipped with the

knowledge to confront these challenges with intelligence compassion and creativity In closing I hope that this book will serve as a valuable resource for students pursuing Environmental Education providing them with not just theoretical knowledge but also a practical understanding of the critical environmental issues we face today Together we can inspire a generation of thinkers and activists who are committed to protecting our planet for future generations Khritish Swargiary May 2025

Opportunities in Applied Environmental Research and Development National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Opportunities in Applied Environmental Research and Development, 1991-01-01 Research is the foundation of environmental protection This volume reviews four areas of opportunity in applied environmental research and development waste reduction ecosystem and landscape change anticipatory research and long term chemical toxicity It presents the consensus of workshops held to explore these four areas as well as an introductory chapter that summarizes the committee's view of environmental research and development

New Concepts in Air Pollution Research Willums, 2013-11-11 Recent publications on the fate of our limited earth have stirred up vivid worldwide discussions during which it became clear that our knowledge of the complex ecosystem is far from sufficient today All planning and predictive models are only as good as the input data they are based on Improved research methods and new ideas and impulses are therefore urgently needed both to stimulate the specialized scientists and to supply the concerned citizen with the updated background information necessary to make responsible decisions Generally most of the serious publications in the field of pollution are written by well known and well established scientists It is beyond doubt that their experience and profound knowledge is an essential contribution to the understanding of our environment But one whole group of scientists has not been able to present their ideas and concerns to a broader scientific or non scientific readership the young scientist at the beginning of his career He belongs to a new generation of scientists who have studied during a time when environmental concern has become a vital part of the university life Now in the first decade of his academic career his educational approach and his developing expertise in this field may synthesize ideas that will fall on what is already a fertile ground for new concepts that are urgently needed to solve the environmental crisis Research in

Education ,1973-12 **Bulletin of Air Pollution Training Courses** United States. National Air Pollution Control Administration. Office of Manpower Development. Institute for Air Pollution Training, 1972 Energy Research Abstracts ,1988 *Report summaries* United States. Environmental Protection Agency, 1983 **Report of the Forest Service**

United States. Forest Service, 1986 Combined reports of Report to Congress and Report for the Secretary of Agriculture **Achieving Well-Being - Bridging Psychological Distance in Our Environment** Hong Chen, Yan Sun, 2022-04-01

Resources in Education ,1999-10 **Energy Abstracts for Policy Analysis** ,1988 *UCSF General Catalog* University of California, San Francisco, 1985 **The Secretary's Annual Report to Congress** United States. Department of Energy, 1991 **Air Pollution Training Courses** United States. Environmental Protection Agency, 1972 The

Geographical Sciences During 1986—2015 Shuying Leng, Xizhang Gao, Tao Pei, Guoyou Zhang, Liangfu Chen, Xi Chen, Canfei He, Daming He, Xiaoyan Li, Chunye Lin, Hongyan Liu, Weidong Liu, Yihe Lü, Shilong Piao, Qihong Tang, Fulu Tao, Lide Tian, Xiaohua Tong, Cunde Xiao, Desheng Xue, Linsheng Yang, Linwang Yuan, Yuanming Zheng, Huiyi Zhu, Liping Zhu, 2016-07-28 In four chapters and an introduction this book systematically helps readers understand the development of the Geographical Sciences both in China and in the world during the past 30 years Through data analysis of methodologies including CiteSpace TDA qualitative analysis questionnaires data mining and mathematical statistics the book explains the evolution of research topics and their driving factors in the Geographical Sciences and its four branches namely Physical Geography Human Geography Geographical Information Science and Environmental Geography It also identifies the role of the Geographical Sciences in the analysis of strategic issues such as global change and terrestrial ecosystems terrestrial water cycle and water resources land change global cryosphere evolution and land surface processes on the Tibetan Plateau economic globalization and local responses regional sustainable development remote sensing modelling and parameter inversion spatial analysis and simulation and tempo spatial processes and modelling of environmental pollutants It then discusses research development and inadequacy of Chinese Geographical Sciences in the above mentioned topics as well as in the fields including Geomorphology and Quaternary environmental change Ecohydrology ecosystem services the urbanization process and mechanism medical and health geography international rivers and transboundary environment and resources detection and attribution of changes in land surface sensitive components and uncertainty of spatial information and spatial analysis It shows that the NSFC has driven the development in all these topics and fields In addition the book summarises trends of the Geographical Sciences in China and the research level in major countries of the world through an overview of geographical education in colleges and universities the analysis of publications citations and author networks of SCI SSCI and CSCD indexed articles and the description of Sino USA Sino UK and Sino German cooperation This book serves as an important reference to anyone interested in geographical sciences and related fields *Air Pollution, the Automobile, and Public Health* Sponsored by The Health Effects Institute, 1988-01-01 The combination of scientific and institutional integrity represented by this book is unusual It should be a model for future endeavors to help quantify environmental risk as a basis for good decisionmaking William D Ruckelshaus from the foreword This volume prepared under the auspices of the Health Effects Institute an independent research organization created and funded jointly by the Environmental Protection Agency and the automobile industry brings together experts on atmospheric exposure and on the biological effects of toxic substances to examine what is known and not known about the human health risks of automotive emissions **Publication - U.S. Environmental Protection Agency. Office of Air and Water Programs. Office of Air Quality Planning and Standards** United States. Environmental Protection Agency. Office of Air Quality Planning and Standards, 1973 **EPA Publications Bibliography Quarterly Abstract Bulletin** United States. Environmental Protection Agency, 1999

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