

ISSN 1002-2104

# 中国人口·资源与环境

CHINA

# Population Resources and Environment

ZHONGGUO RENKOU ZIYUAN YU HUANJING

ISSN 1002-2104



9 771002 210179

万方数据

2017年 第11期

(总第207期)

第27卷



全国中文核心期刊  
中国科技论文统计源期刊  
CSSCI来源期刊  
中国科学引文数据库来源期刊  
RCCSE中国核心学术期刊  
NSSD核心期刊

# 目 次



## 中國人口·資源與環境

月刊

(1991 年创刊)

2017 年 第 27 卷 第 11 期 总第 207 期

刊名题字:邓小平

顾问:(按姓氏笔画为序)

马 宾 马宗晋 冯之浚 卢良恕 刘 江  
刘鸿亮 曲格平 任美锷 李政道 苏纪兰  
施雅风 钱 易 欧阳自远

编委会主任:孙鸿烈

编委会副主任:刘燕华 赵彦修

委员:(按姓氏笔画为序)

马燕合 王 浩 王道龙 邓 卫 叶文虎  
叶耀先 甘师俊 白先宏 刘学敏 刘燕华  
孙 洪 孙鸿烈 曲久辉 何建坤 张坤民  
李秀斌 杜 平 周永章 赵建军 赵彦修  
倪晋仁 唐 波 唐华俊 诸大建 郭日生

主编:刘燕华

副主编:赵彦修

主管:科学技术部

山东省科学技术厅

主办:中国可持续发展研究会

山东省可持续发展研究中心

中国 21 世纪议程管理中心

山东师范大学

编辑部主任:唐 波

编辑部常务副主任:刘呈庆

责任编辑:刘照胜

出版:《中国人口·资源与环境》编辑部

(济南市文化东路 88 号 250014)

电 话:(0531)86182958 86182968

<http://www.cpre.sdnu.edu.cn>

中国标准连续出版物号: ISSN 1002-2104  
CN 37-1196/N

印 刷:山东新华印务有限责任公司

国内发行:全国各地邮政局 24-93

国外发行:中国国际图书贸易总公司

(北京 399 信箱 100044)

广告许可证:鲁工商广告字 02156 号

基于 DPSIR-DEA 模型的区域可持续发展效率测度及分析	张建清 张 岚 王 嵩等(1)
中国区域生态经济投入效益测度及其时空演化分析	马 歆 MUHAMMAD Raheel 薛天天等(10)
中国技术进步实现路径及其时空分异规律	杨 冕 杨福霞(21)
“全面二孩”、人口年龄结构变动对住房消费的影响	顾和军 周小跃 张晨怡(31)
人口老龄化对人力资本投资的“倒 U”影响效应	刘 文 张 琪(39)
最优城市规模与特大城市户籍管制的自增强机制	邹一南(52)
中国农村三大要素市场发育的互动关联逻辑	
可持续生计视角下中国农村贫困治理研究综述	胡新艳 洪炜杰 王梦婷等(61)
中国集中连片特困地区农民收入的时空演变及影响因素	何仁伟 李光勤 刘邵权等(69)
连片特困区农户多维贫困测度及能力建设研究	康江江 宁越敏 魏也华等(86)
易地扶贫搬迁户的识别:多维贫困测度及分解	周常春 翟羽佳 车震宇(95)
易地移民搬迁对农户生态系统服务依赖度的影响	殷浩栋 王 瑜 汪三贵(104)
生态安全约束下耕地潜在转换及其对粮食生产的影响	李 聪 康博纬 李 萍等(115)
退耕还林政策交替期补偿到期农户复耕意愿研究	任林静 黎 洁(132)
国家重点生态功能区转移支付的生态保护效应研究	徐鸿翔 张文彬(141)
林业生态经济发展多维度公共政策选择与测度	
引入森林资源中介变量的林业产业与生态作用机理研究	董 玮 田淑英 刘 浩(149)
西部民族地区集体林权制度改革路径优化	廖 冰 张智光 刘春香等(159)
流域内经济结构性调整对水环境质量的长短期效应分析	张毓峰 胡 雯(169)
工业废水排放与经济增长脱钩的省际差异研究	方 琳 吴凤平 张庆海(176)
环境规制、技术进步与工业用水强度的脱钩关系与动态响应	马海良 侯雅如 李珊珊(185)
基于水足迹法的长江中游城市群水资源利用与经济协调发展脱钩分析	张 峰 宋晓娜 薛惠锋等(193)
用水总量控制下行业配水权重不完全信息动态博弈	李 宁 张建清 王 磊(202)
双控行动下流域初始水权分配的多层次决策模型	何艳虎 陈晓宏 林凯荣等(209)
双控行动下流域初始水权分配的多层次决策模型	吴 丹 王亚华(215)

**声明** 本刊发表的所有论文的作者已授权本刊专有使用和独家代理论文著作权,未经许可,不得转载、摘编。

# CHINA POPULATION, RESOURCES AND ENVIRONMENT

Monthly  
Started in 1991

Vol. 27 No. 11 2017

## Sponsored by

- Chinese Society for Sustainable Development
- Research Center for Sustainable Development of Shandong Province
- Administrative Center for China's Agenda 21
- Shandong Normal University

Periodical Registration: ISSN 1002-2104  
CN 37-1196/N

Editor-in-Chief: LIU Yanhua

Deputy Editor-in-Chief: ZHAO Yanxiu

Director of Editorial Office: TANG Bo

## Edited by

Editorial Board of *China Population, Resources and Environment*, No. 88, East Wenhua Road, Jinan Shandong 250014, China  
Tel: (+86) 531 86182958  
Fax: (+86) 531 86182958  
<http://www.cpre.sdn.edu.cn>

## Printed by

Shandong Xinhua Printing Company Limited

## Overseas Distributed by

China International Book Trading Corporation  
P. O. Box 399, Beijing 100044, P. R. China

Overseas Price: US\$480.00 per Year

## Column Coopertators:

- Research Center of Social Development, School of the Central Committee of CPC
- Research Center for Sustainable Development of China, Peking University
- Research Center for Regional Sustainable Development, Institute of Geographical Sciences and Natural Resource Research, Chinese Academy of Sciences
- Research Academy of 21st Century Development, Tsinghua University
- Administrative Office of National Comprehensive Experimental Community for Sustainable Development

# CONTENTS

- Study on regional sustainable development efficiency measurement and influencing factors: Based on DPSIR-DEA Model ..... *ZHANG Jian-qing ZHANG Lan WANG Song et al(1)*
- Measurement of China's regional eco-economy input efficiency and its temporal-spatial evolution ..... *MA Xin MUHAMMAD Raheel XUE Tian-tian et al(10)*
- Realizing path and spatial-temporal variation of China's technical progress ..... *YANG Mian YANG Fu-xia(21)*
- 'Universal two-child', the effect of demographic structure change on housing consumption ..... *GU He-jun ZHOU Xiao-yue ZHANG Chen-yi(31)*
- The impact of 'inverted U' of population aging on the human capital investment ..... *LIU Wen ZHANG Qi(39)*
- Optimal city size and self-enhancement mechanism of *Hukou* regulation in megacities ..... *ZOU Yi-nan(52)*
- Joint decision-making logic of three elements in rural China ..... *HU Xin-yan HONG Wei-jie WANG Meng-ting et al(61)*
- A literature review of China's rural poverty governance from the perspective of sustainable livelihood ..... *HE Ren-wei LI Guang-qin LIU Shao-quan et al(69)*
- The spatio-temporal evolution and influencing factors of peasants' income in contiguous destitute areas ..... *KANG Jiang-jiang NING Yue-min WEI Ye-hua Dennis et al(86)*
- Research on the multidimensional poverty and capability building ..... *ZHOU Chang-chun ZHAI Yu-jia CHE Zhen-yu(95)*
- Identification of poverty alleviation relocation households: multidimensional poverty measurement and its decomposition ..... *YIN Hao-dong WANG Yu WANG San-gui(104)*
- Impacts of relocation and settlement program on rural households' dependence on ecosystem ..... *LI Cong KANG Bo-wei LI Ping et al(115)*
- Impact of farmland conversion grain output under the ecological constraint ..... *ZHAO Ai-dong PENG Chong XU Shi et al(124)*
- Reconversion willingness of compensation-expired households in key phase of Sloping Land Conversion Program ..... *REN Lin-jing LI Jie(132)*
- Study on the ecological protection effect of the transfer payment of national key ecological function areas ..... *XU Hong-xiang ZHANG Wen-bin(141)*
- Choices of public policies for forestry ecological economy development and the multi-dimensional measurements ..... *DONG Wei TIAN Shu-ying LIU Hao(149)*
- Study on their interaction mechanisms between forestry industry and ecology with forest resources mediator introduced ..... *LIAO Bing ZHANG Zhi-guang LIU Chun-xiang et al(159)*
- Optimizing the transformation path of property right system reform in minority areas of western China ..... *ZHANG Yu-feng HU Wen(169)*
- Analysis of short and long-term effect of economic structural adjustment on water environment in the basin ..... *FANG Lin WU Feng-ping ZHANG Qing-hai(176)*
- Decoupling relationship between industrial wastewater discharges and economic growth in regional differentiation of China ..... *MA Hai-liang HOU Ya-ru LI Shan-shan(185)*
- Decoupling relationship and dynamic response between industrial water intensity, environmental regulation and technological progress ..... *ZHANG Feng SONG Xiao-na XUE Hui-feng et al(193)*
- Decoupling and water footprint analysis of the coordinated development between water utilization and the economy in urban agglomeration in the middle reaches of the Yangtze River ..... *Li Ning ZHANG Jian-qing WANG Lei(202)*
- Dynamic game analysis on weights of water allocation among water use sectors under constrained total water use at a basin scale ..... *HE Yan-hu CHEN Xiao-hong LIN Kai-rong et al(209)*
- Modeling for multi-layer hierarchical decision-making of initial water rights allocation in the river basin with water resources dual control action ..... *WU Dan WANG Ya-hua(215)*

# 中国人口·资源与环境



**CHINA  
Population  
Resources and  
Environment**

国内定价: RMB 40  
欧美地区定价: USD 40  
东南亚及港澳台地区定价: HKD 60

邮发代号: 24-93  
网 址: <http://www.cpre.sdnu.edu.cn>  
中国标准连续出版物号: ISSN 1002-2104  
CN 37-1196/N