

中国中文核心期刊  
中国科技核心期刊

中国国际影响力优秀学术期刊  
中国科学引文数据库核心期刊

中国精品科技期刊  
日本JST数据库期刊

ISSN 1674-5906  
CN 44-1661/X

# 生态环境学报

ECOLOGY AND ENVIRONMENTAL SCIENCES

2017年12月 第26卷 第12期 Vol.26 No.12

卷 终



只有一个地球，请关心和维护这个小小的行星

Only one earth, please care for and maintain the small planet



广东省土壤学会 主办  
广东省生态环境技术研究所

<http://www.jeesci.com>  
E-mail: editor@jeesci.com

万方数据

# 生态环境学报

第26卷 第12期 2017年12月18日

## 目次

### 院士论坛

中国重金属污染区耕地轮作休耕制度试点进展、问题及对策建议····· 赵其国, 沈仁芳, 滕应, 李秀华 (2003)

### 研究论文

紫茎泽兰入侵对不同植物群落类型中昆虫多样性的影响····· 蒋智林, 邓丹丹, 刘万学, 万方浩, 李正跃 (2008)

放牧扰动对锡林郭勒典型草原植被特征及土壤养分的影响····· 刘佳慧, 张韬 (2016)

围封对荒漠草原沙草种群构件生物量分配特性的影响····· 赵盼盼, 邵文山, 靳长青, 宋立肖, 龚诗佩, 李国旗 (2024)

鄱阳湖湿地灰化苔草固碳能力及固碳量研究····· 周云凯, 白秀玲, 宁立新 (2030)

晋北干旱区盐碱地柽柳叶总有机碳与营养元素含量的关系····· 王慧, 刘宁, 姚延涛, 解文斌, 王林 (2036)

湘东大围山土壤垂直带谱微生物群落特征····· 马颢榴, 宋佳龄, 潘博, 张亮, 盛浩 (2045)

外源硅对碱性土壤磷位及磷有效性的影响····· 杨丹, 田甜, 闫颖, 何娜, 刘鸣达 (2052)

生物炭对砂糖桔叶果和土壤理化性状的影响····· 蒋惠, 郭雁君, 张小凤, 郭丽英, 彭抒昂, 姜存仓, 吉前华 (2057)

热带海滨植物水芭蕉 (*Pemphis acidula*) 的生理生态学特性····· 曹策, 简曙光, 任海, 王俊, 刘楠, 王佳新, 吴淑华 (2064)

2016年12月京津冀一次重污染天气过程分析····· 尹晓梅, 孙兆彬, 郭淳薇, 唐宜西, 李梓铭 (2071)

城市居住区开发强度与微气候的关联性研究——以合肥市为例····· 顾康康, 祝玲玲 (2084)

大气氮磷湿沉降特征及对沙源区水库水环境的影响····· 张晓晶, 卢俊平, 马太玲, 贾永芹, 张昊 (2093)

土地利用变化对茂名市降水入渗补给量的影响····· 刘祖发, 姚寒梅, 陈晓越, 卓文珊, 查悉妮, 付雪莲 (2102)

三亚珊瑚礁区珊瑚体内多环芳烃 (PAHs) 的分布特征及来源分析····· 项楠, 刁晓平, 姜春霞, 杨婷寒, 黄炜 (2112)

巢湖表层沉积物氮、磷、有机质的分布及污染评价····· 苗慧, 沈峥, 蒋豫, 石惠娟, 张亚雷, 蔡永久 (2120)

北京路边9种植物叶片表面微结构及其滞尘潜力研究····· 张鹏骞, 朱明溟, 刘艳菊, 杨峥 (2126)

采暖季4种结构的城市绿地对PM<sub>2.5</sub>和PM<sub>10</sub>的调控作用····· 刘宇, 王晓立, 董蓉, 李素华, 韩浩章 (2134)

不同水稻品种对镉的吸收转运及其非蛋白巯基含量的变化····· 李江遐, 张军, 马友华, 高飞, 蔡慢弟 (2140)

水稻土中7个水稻品种对土壤Cd、Pb的富集与转运: 田间研究····· 冯莲莲, 郭京霞, 黄梓璨, 王果 (2146)

潍坊市菜地重金属调查与环境风险评价研究····· 张怀志, 冀宏杰, 徐爱国, 席运官 (2154)

凹凸棒粘土对镉污染农田的原位钝化修复效果研究····· 任静华, 廖启林, 范健, 朱伯万, 许伟伟, 卢宜迅 (2161)

### 综 述

氧化石墨烯的环境行为和毒性效应研究进展····· 胡俊杰, 劳志朗, 吴康铭, 范洪波 (2169)

有机、重金属污染物同时吸附的前沿态势文献计量分析

····· 李文斌, 李雅, 邓红艳, 黎云祥, 谢婷, 康乐, 廖运文, 孟昭福 (2177)



期刊基本参数: CN 44-1661/X \* 1992 \* m \* A4 \* 182 \* zh \* P \* ¥ 30.00 \* 1 000 \* 24 \* 2017-12

# ECOLOGY AND ENVIRONMENTAL SCIENCES

Vol.26 No.12 December 18, 2017

## Contents

### Academician Forum

- Pilot Progress, Problems and Countermeasures on Farmland Rotation and Fallow System in the Heavy Metal Polluted Region of China  
..... ZHAO Qiguo, SHEN Renfang, TENG Ying, LI Xiuhua ( 2003 )

### Research Articles

- Effect of *Ageratina adenophora* Invasion on Insect Diversity in Subtropical Mountains in SW China  
..... JIANG Zhilin, DENG Dandan, LIU Wanxue, WAN Fanghao, LI Zhengyue ( 2008 )
- Response of Plant Characteristics and Soil Nutrients on Grazing Disturbance in Typical Grassland in Xilinguole ..... LIU Jiahui, ZHANG Tao ( 2016 )
- Effects of Enclosure on Biomass Allocation Characteristics of *Agropyron mongolicum* Population in Desert Steppe  
..... ZHAO Panpan, SHAO Wenshan, JIN Changqing, SONG Lixiao, GONG Shipei, LI Guoqi ( 2024 )
- Carbon Sequestration Capacity and Carbon Storage of *Carex cinerascens* in Poyang Lake Wetland ..... ZHOU Yunkai, BAI Xiuling, NING Lixin ( 2030 )
- The Relationship between Foliar TOC of *Tamarix chinensis* Lour. and Nutrient Elements' Content in Saline-alkali Soil of North Shanxi  
..... WANG Hui, LIU Ning, YAO Yantao, XIE Wenbin, WANG Lin ( 2036 )
- Characteristics of Soil Microbial Community Along An Elevation Transect in Daweishan Mount of East Hunan Province  
..... MA Haoliu, SONG Jialing, PAN Bo, ZHANG Liang, SHENG Hao ( 2045 )
- Effect of Exogenous Silicon on Phosphate Potential and Phosphorus Availability in Alkaline Paddy Soil  
..... YANG Dan, TIAN Tian, YAN Ying, HE Na, LIU Mingda ( 2052 )
- Effects of Biochar on Leaf, Fruit and Soil Physicochemical Properties in *Citrus reticulata* Blanco cv .Shatangju Orchard  
..... JIANG Hui, GUO Yanjun, ZHANG Xiaofeng, GUO Liying, PENG Shuang, JIANG Cuncang, JI Qianhua ( 2057 )
- The Ecophysiological Characteristics of *Pemphis acidula*, A Tropical Beach Plant  
..... CAO Ce, JIAN Shuguang, REN Hai, WANG Jun, LIU Nan, WANG Jiaxin, WU Shuhua ( 2064 )

- Analysis of A Heavily Polluted Event in Beijing-Tianjin-Hebei Region in December, 2016  
..... YIN Xiaomei, SUN Zhaobin, GUO Chunwei, TANG Yixi, LI Zimin ( 2071 )
- Study on the Relationships between Development Intensity and Microclimate in Urban Residential Areas——A Case of Hefei  
..... GU Kangkang, ZHU Lingling ( 2084 )
- Wet Deposition of Atmospheric Nitrogen and Phosphorus and Its Impact on Water Environment of Reservoir in Sand Source Area  
..... ZHANG Xiaojing, LU Junping, MA Tailing, JIA Yongqin, ZHANG Hao ( 2093 )
- Effect of Land Use Changes on Precipitation Infiltration Recharge in Maoming  
..... LIU Zufa, YAO Hanmei, CHEN Xiaoyue, ZHUO Wenshan, ZHA Xini, FU Xuelian ( 2102 )
- Distribution Characteristics and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Corals from Sanya Coral Reefs  
..... XIANG Nan, DIAO Xiaoping, JIANG Chunxia, YANG Tinghan, HUANG Wei ( 2112 )
- Distribution Characteristics and Pollution Assessment of Nitrogen, Phosphorus and Organic Matter in Surface Sediments of Chaohu Lake  
..... MIAO Hui, SHEN Zheng, JIANG Yu, SHI Huixian, ZHANG Yalei, CAI Yongjiu ( 2120 )
- Leaf Surface Micro-morphological Features and Its Retention Ability of Particulate Matters for 9 Plant Species at the Roadside of Beijing  
..... ZHANG Pengqian, ZHU Minghao, LIU Yanju, YANG Zheng ( 2126 )
- Regulation of PM<sub>2.5</sub> and PM<sub>10</sub> in 4 Types of Urban Greenbelt in Heating Season .... LIU Yu, WANG Xiaoli, DONG Rong, LI Suhua, HAN Haozhang ( 2134 )
- Uptake and Translocation of Cadmium and Content of Non-protein Thiols in Different Rice Cultivars  
..... LI Jiangxia, ZHANG Jun, MA Youhua, GAO Fei, CAI Mandi ( 2140 )
- A Field Study on the Accumulation and Translocation of Cadmium and Lead from A Contaminated Paddy Rice Field by Seven Rice Cultivars  
..... FENG Lianlian, GUO Jingxia, HUANG Zican, WANG Guo ( 2146 )
- Investigation and Environmental Risk Assessment of Heavy Metal Elements in Vegetable Farmland of Weifang City  
..... ZHANG Huaizhi, JI Hongjie, XU Aiguo, XI Yunguan ( 2154 )
- Effect of In-situ Stabilizing Remediation of Cd-polluted Soil by Attapulgate  
..... REN Jinghua, LIAO Qilin, FAN Jian, ZHU Baiwan, XU Weiwei, LU Yixun ( 2161 )

### Reviews

- Research Progress in Environmental Behavior and Toxicity of Graphene Oxide ..... HU Junjie, LAO Zhilang, WU Kangming, FAN Hongbo ( 2169 )
- A Bibliometrical Analysis of the Exploration Research of Simultaneous Adsorption of Organic Pollutants and Heavy Metal Ions  
..... LI Wenbin, LI Ya, DENG Hongyan, LI Yunxiang, XIE Ting, KANG Le, LIAO Yunwen, MENG Zhaofu ( 2177 )