



中国科技核心期刊  
 中国科学引文数据库来源期刊  
 中国人文社会科学引文数据库入库期刊  
 中文核心期刊(2011)  
 中国高校优秀科技期刊  
 广东省特色科技期刊



ISSN 1008-8873  
 CN44-1215/Q

# 生态科学

# Ecological Science

**5** **2018**  
 第37卷 第5期  
 VOL. 37 NO. 5



生态科学  
 二〇一八年九月

第三十七卷

第五期

SEP. 2018 Vol.37 NO.5

科学出版社



广东省生态学会 暨南大学 主办

万方数据

# 生态科学

## (SHENGTAI KEXUE)

第 37 卷第 5 期 (总第 137 期) 2018 年 9 月 (双月刊 1982 年创刊)

### 目次

#### 研究报告

- 厦门海湾典型无瓣海桑人工种群特征和幼苗更新扩散现状研究.....黄晓敏, 卢昌义(1)
- 外源 NO 对 Cd 胁迫下娃娃菜种子萌发及幼苗生长的保护效应.....余沛东, 陈银萍, 闫志强, 柯昀琪, 杨波, 丁浚刚(7)
- 南亚热带森林丛枝菌根真菌与土壤结构的关系.....钟思远, 张静, 褚国伟, 夏艳菊, 唐旭利(16)
- 青藏高原东部山地草地土壤碳、氮、磷元素计量特征.....赵云飞, 洪苗苗, 欧延升, 黄政, 张洋洋, 汪霞(25)
- 基于 TG-FTIR 技术的猪粪与稻草混合厌氧发酵产甲烷特性研究.....付尹宣, 夏嵩, 付嘉琦, 晏恒, 吴九九(33)
- 湖北崩尖子自然保护区夏季鸟类群落及多样性研究.....陈宇, 汪正祥, 杨其仁, 李亭亭, 田凯, 杨启池(39)
- 神农架世界自然遗产地陆生脊椎动物多样性.....周友兵, 韩文斌, 陈文文, 崔继法, 申国珍, 熊高明, 徐文婷, 樊大勇, 赵常明, 谢宗强(47)
- 急性低温胁迫对四指马鲛幼鱼肝脏、肌肉以及鳃组织结构的影响.....区又君, 刘奇奇, 温久福, 李加儿, 李活(53)
- 一种青海湖流域消除植被光谱对土壤光谱影响的土壤有机质含量遥感估算方法.....吴成永, 曹广超, 陈克龙, 毛亚辉, 王琪, 袁杰, 鄂崇毅(60)
- 小麦拔节期淹水对叶片光合特性的影响.....胡旭光, 杨兵兵, 石磊, 盛绍学, 李文阳(72)
- 北京奥林匹克公园夏季绿地小气候及人体环境舒适度效应分析.....张彪, Majid AMANI-BENI, 史芸婷, 谢高地(77)
- 盐胁迫对 4 种园林植物荧光特性的影响.....余汉基, 张潮, 薛立, 邝雷, 郑欣颖, 谢腾芳(87)
- 不同冬季覆盖作物对稻田 CH<sub>4</sub> 和 CO<sub>2</sub> 排放的影响.....周艳飞, 刘念, 刘章勇, 金涛(94)
- 河南省近 30 年植被指数与气象因子的相关性分析.....郭磊, 王世东(102)
- 氮沉降和磷添加对杉木光合及叶绿素荧光特征的影响.....钱树玥, 王巧, 刘宁, 李全, 雷赵枫, 宋新章, 袁建国(113)
- 舟山群岛新区生态足迹与可持续发展评价研究.....朱兆红, 李莉, 童亿勤, 周艳丽, 赵春芳(122)
- 基于 GIS 的武汉市生态红线划定的技术方法研究.....何建华, 詹皖欣, 黄俊龙(131)
- 三种肥力红黏土壤对猪粪安全消纳量初步研究.....张迪, 周志高, 王兴祥(140)
- 短短芽孢杆菌(*Brevibacillus brevis*)对鲤鱼养殖水质及其生长特性的影响.....付保荣, 刘梦琦, 张润洁, 张楠, 任婧(146)
- 濒危植物景宁玉兰的萌条形态特征分析.....杜有新, 吴伟建, 季志利, 王军峰, 江丽荣, 刘跃钧(152)
- 郑州市景观多样性的空间自相关格局分析.....郭恒亮, 刘如意, 赫晓慧, 乔宝晋, 田智慧(157)
- 基于土地利用的贵州省乌江流域生态系统服务价值演变分析.....牛潜, 周旭, 许幼霞, 杨江州, 张继(165)
- 南岭保护区石坑崮花岗岩风化壳理化特征与环境分析.....付淑清, 王钧, 熊海仙, 宫清华, 杨龙, 温美丽(174)
- 祁连山南坡不同植被类型枯落物及其土壤持水特性分析.....袁杰, 曹广超, 曹生奎, 赵青林(180)
- 广州市帽峰山森林公园动植物多样性资源监测概况.....裴男才, 陈步峰, 史欣(191)
- #### 综述
- 页岩气压裂返排液及排放废液的研究现状及微藻资源化处理应用前景综述.....贺美, 邵波, 刘勇, 李鑫, 张定凯, 郑妙洁, 田磊(195)
- 浮游生物异速生长关系研究进展.....李志红, 刘甲星, 苏强(203)
- 城市绿地土壤呼吸研究综述.....范洪旺, 滕臻, 许克福(210)

期刊基本参数: CN44-1215/Q \* 1982 \* b \* 16 \* 216 \* zh \* P \* ¥50.00 \* 1000 \* 28 \* 2018-5

# ECOLOGICAL SCIENCE

(Bimonthly, Started in 1982)

Peer Reviewed

Vol.37 No 5 Sep 2018

## CONTENT

### Research papers

- Studies on the characteristics of artificial population of *Sonneratia apetala* and the current recruitment and dispersal of the seedlings in Xiamen Bay, China ..... HUANG Xiaomin, LU Changyi (1)
- Protective effects of nitric oxide on seed germination and seedling growth of *Brassica pekinensis* under cadmium stress ..... YU Peidong, CHEN Yinping, YAN Zhiqiang, KE Yunqi, YANG Bo, DING Jungang (7)
- The relationship between arbuscular mycorrhizal fungi and soil structure in southern subtropical forest ..... ZHONG Siyuan, ZHANG Jing, CHU Guowei, XIA Yanju, TANG Xuli (16)
- The stoichiometric characteristics of soil C, N, P in mountain steppe of eastern Tibetan Plateau ..... ZHAO Yunfei, HONG Miaomiao, OU Yansheng, ZHANG Yangyang, WANG Xia (25)
- Evaluation of methane production by anaerobic co-digestion of pig manure and rice straw based on TG-FTIR technology ..... FU Yinxuan, XIA Song, FU Jiaqi, YAN Heng, WU Jiujiu (33)
- Investigation on the Biodiversities of summer avian in Bengjianzi Nature Reserve, Hubei Province ..... CHEN Yu, WANG Zhengxiang, LI Tingting, TIAN Kai, YANG Qichi (39)
- Terrestrial vertebrate diversity in Shennongjia World Natural Heritage Site, China ..... ZHOU Youbing, HAN Wenbin, CHEN Wenwen, CUI Jifa, SHEN Guozhen, XIONG Gaoming, XU Wenting, FAN Dayong, ZHAO Changming, XIE Zongqiang (47)
- The effects of acute low temperature stress on liver, muscle and gill tissues of juvenile *Eleutheronema tetradactylum* ..... OU Youjun, LIU Qiqi, WEN Jiufu, LI Jiaer, LI Huo (53)
- A soil organic matter retrieval method by eliminating the influence of vegetation spectra on soil spectra in Qinghai Lake Basin ..... WU Chengyong, CAO Guangchao, CHEN Kelong, MAO Yahui, WANG Qi, YUAN Jie, E Chongyi (60)
- Effects of waterlogging at jointing stage on photosynthetic characteristics of wheat leaves ..... HU Xuguang, YANG Bingbing, SHI Lei, SHENG Shaoxue, LI Wenyang (72)
- The summer microclimate of green spaces in Beijing' Olympic Park and their effects on human comfort index ..... ZHANG Biao, Majid AMANI-BENI, SHI Yunting, XIE Gaodi (77)
- Effects of salt stress on chlorophyll fluorescence parameters of seedlings of four garden plant species ..... SHE Hanji, ZHANG Chao, XUE Li, KUANG Lei, ZHENG Xinying, XIE Tengfang (87)
- Effects of winter cover crop on methane and carbon dioxide emissions from paddy field ..... ZHOU Yanfei, LIU Nian, LIU Zhangyong, JING Tao (94)
- Correlation analysis of vegetation index and meteorological factors in Henan Province in the last 30 years ..... GUO Lei, WANG Shidong (102)
- Effects of nitrogen deposition and phosphorus addition on photosynthesis and chlorophyll fluorescence characteristics of Chinese fir ..... QIAN Shuyue, WANG Qiao, LIU Ning, LI Quan, LEI Zhaofeng, SONG Xinzhang, AI Jianguo (113)
- Study on ecological footprint and sustainable development in Zhoushan Archipelago New District ..... ZHU Zhaohong, LI Li, TONG Yiqin, ZHOU Yanli, ZHAO Chunfang (122)
- Research on the technical methods of the delimitation ecological red line for Wuhan based on GIS-HE Jianhua, ZHAN Wanxin, HUANG Junlong (131)
- Preliminary research on maximum safe pig manure loading capacity of red soils from three soil fertility levels ..... ZHANG Di, ZHOU Zhigao, WANG Xingxiang (140)
- Effects of *Brevibacillus brevis* on aquaculture water quality and carps growth characteristics ..... FU Baorong, LIU Mengqi, ZHANG Runjie, ZHANG Nan, REN Jing (146)
- Analysis on morphological characters of sprouts of the endangered plant *Magnolia sinostellata* ..... DU Youxin, WU Weijian, JI Zhili, WANG Junfeng, JIANG Lirong, LIU Yuejun (152)
- Analysis of spatial autocorrelation of landscape diversity Pattern in Zhengzhou City ..... GUO Hengliang, LIU Ruyi, HE Xiaohui, QIAO Baojin, TIAN Zihui (157)
- Analysis of ecosystem service value evolution of Wujiang River basin of Guizhou Province based on land use ..... NIU Qian, ZHOU Xu, XU Youxia, YANG Jiangzhou, ZHANG Ji (165)
- Physical, chemical characteristics of shikengkong granite weathered crust and potential environments analysis in Nanling area ..... FU Shuqing, WANG Jun, XIONG Haixian, GONG Qinghua, YANG Long, WEN Meili (174)
- Analysis on litterfall and soil water retention properties of different vegetation types on the South Slope of Qilian Mountains ..... YUAN Jie, CAO Guangchao, CAO Shengkui, ZHAO Qinglin (180)
- Forest biodiversity resources in Maofengshan Forest Park, Guangzhou City ..... PEI Nancai, CHEN Bufeng, SHI Xin (191)
- ### Reviews
- Summary of the study on the fracturing flowback fluids and effluents and prospect of their microalgal resource treatments ..... HE Mei, SHAO Bo, LIU Yong, LI Xin, ZHANG Dingkai, ZHENG Miaojie, TIAN Lei (195)
- Research progress on the allometry in plankton ..... LI Zhihong, LIU Jiaying, SU Qiang (203)
- The review of soil respiration in urban green space ..... FAN Hongwang, TENG Zhen, XU Kefu (210)