

ISSN 1000-0933
CN 11-2031/Q

生态学报

Acta Ecologica Sinica



第33卷 第21期 Vol.33 No.21 2013

中国生态学学会
中国科学院生态环境研究中心
科学出版社

主办
出版

ACTA ECOLOGICA SINICA Vol.33, No.21 Nov., 2013 (Semimonthly)
CONTENTS

Frontiers and Comprehensive Review

- Gross ecosystem product: theory framework and case study OUYANG Zhiyun, ZHU Chunquan, YANG Guangbin, et al (6747)
- Advances in impacts of climate change on infectious diseases outbreak LI Guodong, ZHANG Junhua, JIAO Gengjun, et al (6762)
- Ecology of aerobic methane oxidizing bacteria (methanotrophs) YUN Juanli, WANG Yanfen, ZHANG Hongxun (6774)
- Nitrogen deposition and *Leymus chinensis* leaf chlorophyll content in Inner Mongolian grassland
..... ZHANG Yunhai, HE Nianpeng, ZHANG Guangming, et al (6786)
- Worldwide distribution and multivariate similarity clustering analysis of spiders
..... SHEN Xiaocheng, ZHANG Baoshi, ZHANG Feng, et al (6795)
- The influence of wind direction on pollen-mediated gene flow in transgenic insect-resistant cotton
..... ZHU Jialin, HE Juan, NIU Jianqun, et al (6803)

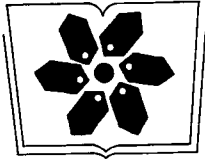
Autecology & Fundamentals

- Ecological characteristics of benthic diatoms, protozoa and meiobenthos in the sediments of the Changjiang Estuary and East China
Sea in spring MENG Zhaoxue, XU Kuidong (6813)
- Macrobenthic functional groups at the reclamation and natural tidal flats of Hengsha East Shoal, the Estuary of Changjiang River
..... LV Weiwei, MA Chang'an, YU Ji, et al (6825)
- Enrichment and ecological risk of heavy metal in soils and dominant plants in the riparian of the Fenghe River
..... YANG Yang, ZHOU Zhengchao, WANG Huanhuan, et al (6834)
- Effects of salinity and exogenous substrates on the decomposition and transformation of soil organic carbon in the Yellow River
Delta LI Ling, QIU Shaojun, TAN Feifei, et al (6844)
- Effects of short-term dark chilling on leaves carbon and nitrogen metabolism and involved activities of enzymes in mangrove *Kandelia
obovata* seedling ZHENG Chunfang, LIU Weicheng, CHEN Shaobo, et al (6853)
- Preliminary evaluation on tolerance to phosphorous deficiency of 32 cultivars of cut chrysanthemum
..... LIU Peng, CHEN Sumei, FANG Weimin, et al (6863)
- Effects of age and environmental conditions on accumulation of heavy-metals Cd and Cu in *Tegillarca granosa*
..... WANG Zhaogen, WU Hongxi, CHEN Xiaoxiao, et al (6869)
- Effects of Chinese gallnut on photosynthetic characteristics and total nitrogen content of *Rhus chinensis*
..... LI Yang, YANG Zixiang, CHEN Xiaoming, et al (6876)
- The characterization of glyphosate degradation by *Burkholderia multivorans* WS-FJ9 LI Guanxi, WU Xiaoqin, YE Jianren (6885)
- Electroantennographic and behavioural responses of scarab beetles to *Ricinus communis* leaf volatiles
..... LI Weizheng, YANG Lei, SHEN Xiaowei, et al (6895)

Population, Community and Ecosystem

- Ecosystem health assessment in Baiyangdian Lake XU Fei, ZHAO Yanwei, YANG Zhifeng, et al (6904)
- Characteristics of macrobenthic communities in mangrove wetlands along the waterways of North Hezhou, Zhuhai, South China
..... WANG Hui, ZHONG Shan, FANG Zhanqiang (6913)
- The interaction between components of ecosystem respiration in typical forest and grassland ecosystems
..... ZHU Xianjin, YU Guirui, WANG Qiufeng, et al (6925)
- Effects of thinning on macro fungi and their relationship with litter decomposition in *Pinus tabulaeformis* plantations
..... CHEN Xiao, BAI Shulan, LIU Yong, et al (6935)

- Beta diversity of plant communities in Baishanzu Nature Reserve TAN Shanshan, YE Zhenlin, YUAN Liubin, et al (6944)
- Effect of Oxytetraeycline (OTC) on the activities of enzyme and microbial community metabolic profiles in composting
 CHEN Zhixue, GU Jie, GAO Hua, et al (6957)
- Landscape, Regional and Global Ecology**
- Variations in leaf anatomy of *Larix gmelinii* reflect adaptation of its photosynthetic capacity to climate changes
 JI Zijing, QUAN Xiankui, WANG Chuankuan (6967)
- The studying of key ecological factors and threshold of landscape evolution in Yancheng Coastal wetland
 ZHANG Huabing, LIU Hongyu, LI Yufeng, et al (6975)
- Eco-physiological response of *Phragmites communis* to water table changes in the Horqin Sand Land
 MA Yunhua, ZHANG Tonghui, LIU Xinpeng (6984)
- Improvement of snowmelt implementation in the SWAT hydrologic model ... YU Wenjun, NAN Zhuotong, ZHAO Yanbo, et al (6992)
- Responses of lake fluctuation to climate change in Horqin Sandy Land
 CHANG Xueli, ZHAO Xueyong, WANG Wei, et al (7002)
- Water ecology and fractal characteristics of soil particle size distribution of three typical vegetations in Shell Island
 XIA Jiangbao, ZHANG Shuyong, WANG Rongrong, et al (7013)
- Spatio-temporal distribution of epilithic algal chlorophyll a in relation to the physico-chemical factors of Gufu River in Three Gor-
 ges Reservoir WU Shuyuan, GE Jiwen, MIAO Wenjie, et al (7023)
- Resource and Industrial Ecology**
- Graphic analysis of spatio-temporal effect for vegetation disturbance caused by coal mining: a case of Datong Coal Mine Area
 HUANG Yi, WANG Yunjia, LI Xiaoshun, et al (7035)



中国科学院科学出版基金资助出版

生态学报

(SHENGTAI XUEBAO)

第 33 卷 第 21 期 2013 年 11 月 (半月刊)

目 次

前沿理论与学科综述

- 生态系统生产总值核算:概念、核算方法与案例研究..... 欧阳志云,朱春全,杨广斌,等 (6747)
- 气候变化对传染病爆发流行的影响研究进展..... 李国栋,张俊华,焦耿军,等 (6762)
- 好氧甲烷氧化菌生态学研究进展 负娟莉,王艳芬,张洪勋 (6774)
- 氮沉降强度和频率对羊草叶绿素含量的影响..... 张云海,何念鹏,张光明,等 (6786)
- 世界蜘蛛的分布格局及其多元相似性聚类分析..... 申效诚,张保石,张 锋,等 (6795)
- 风向因素对转基因抗虫棉花基因漂移效率的影响..... 朱家林,贺 娟,牛建群,等 (6803)

个体与基础生态

- 长江口及东海春季底栖硅藻、原生动物和小型底栖生物的生态特点 孟昭翠,徐奎栋 (6813)
- 长江口横沙东滩围垦潮滩内外大型底栖动物功能群研究..... 吕巍巍,马长安,余 骥,等 (6825)
- 沔河沿岸土壤和优势植物重金属富集特征和潜在生态风险..... 杨 阳,周正朝,王欢欢,等 (6834)
- 盐分和底物对黄河三角洲区土壤有机碳分解与转化的影响..... 李 玲,仇少君,檀菲菲,等 (6844)
- 短期夜间低温胁迫对秋茄幼苗碳氮代谢及其相关酶活性的影响..... 郑春芳,刘伟成,陈少波,等 (6853)
- 32 个切花菊品种的耐低磷特性 刘 鹏,陈素梅,房伟民,等 (6863)
- 年龄和环境条件对泥蚶富集重金属镉和铜的影响..... 王召根,吴洪喜,陈肖肖,等 (6869)
- 角倍蚜虫瘿对盐肤木光合特性和总氮含量的影响..... 李 杨,杨子祥,陈晓鸣,等 (6876)
- 多噬伯克霍尔德氏菌 WS-FJ9 对草甘膦的降解特性 李冠喜,吴小芹,叶建仁 (6885)
- 金龟甲对蓖麻叶挥发物的触角电位和行为反应..... 李为争,杨 雷,申小卫,等 (6895)

种群、群落和生态系统

- 白洋淀生态系统健康评价..... 徐 菲,赵彦伟,杨志峰,等 (6904)
- 珠海鹤洲水道沿岸红树林湿地大型底栖动物群落特征 王 卉,钟 山,方展强 (6913)
- 典型森林和草地生态系统呼吸各组分的相互关系..... 朱先进,于贵瑞,王秋凤,等 (6925)
- 抚育间伐对油松人工林下大型真菌的影响..... 陈 晓,白淑兰,刘 勇,等 (6935)
- 百山祖自然保护区植物群落 beta 多样性 谭珊珊,叶珍林,袁留斌,等 (6944)
- 土霉素对堆肥过程中酶活性和微生物群落代谢的影响..... 陈智学,谷 洁,高 华,等 (6957)

景观、区域和全球生态

- 兴安落叶松针叶解剖结构变化及其光合能力对气候变化的适应性 季子敬,全先奎,王传宽 (6967)
- 盐城海滨湿地景观演变关键土壤生态因子与阈值研究..... 张华兵,刘红玉,李玉凤,等 (6975)

半干旱区沙地芦苇对浅水位变化的生理生态响应 马赞花,张铜会,刘新平 (6984)

SWAT 模型融雪模块的改进 余文君,南卓铜,赵彦博,等 (6992)

科尔沁沙地湖泊消涨对气候变化的响应..... 常学礼,赵学勇,王 玮,等 (7002)

贝壳堤岛 3 种植被类型的土壤颗粒分形及水分生态特征..... 夏江宝,张淑勇,王荣荣,等 (7013)

三峡库区古夫河着生藻类叶绿素 a 的时空分布特征及其影响因素..... 吴述园,葛继稳,苗文杰,等 (7023)

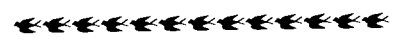
资源与产业生态

煤炭开发对矿区植被扰动时空效应的图谱分析——以大同矿区为例..... 黄 翌,汪云甲,李效顺,等 (7035)

学术信息与动态

《中国当代生态学研究》新书推介 刘某承 (7044)

期刊基本参数:CN 11-2031/Q * 1981 * m * 16 * 300 * zh * P * ¥90.00 * 1510 * 30 * 2013-11



封面图说: 百山祖保护区森林植物群落——百山祖国家级自然保护区位于浙西南闽浙交界处,由福建武夷山向东北伸展而成,主峰海拔 1856.7m,为浙江省第二高峰。其独特的地形和水文地理环境形成了中亚热带气候区中一个特殊的区域,保存着十分丰富的植物种质资源以及国家重点保护野生动植物种,尤其是 1987 年由国际物种保护委员会列为世界最濒危的 12 种植物之一的百山祖冷杉,是第四纪冰川的孑遗植物,素有“活化石”之称。随着海拔的升高,其植被为常绿阔叶林、常绿-落叶阔叶混交林、针阔混交林、针叶林、山地矮林和山地灌草丛。

彩图及图说提供: 陈建伟教授 北京林业大学 E-mail: cites.chenjw@163.com