

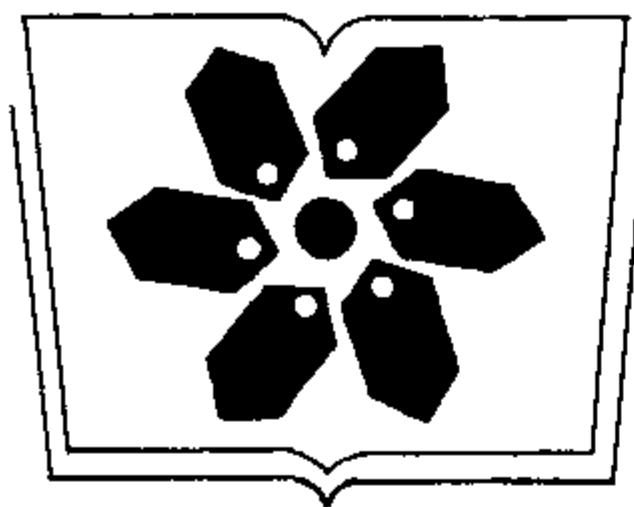
ISSN 1000-0933

CN 11-2031/Q

# 生态学报 Acta Ecologica Sinica



第32卷 第16期 Vol.32 No.16 2012



中国科学院科学出版基金资助出版

# 生态学报

(SHENTAI XUEBAO)

第32卷 第16期 2012年8月 (半月刊)

## 目 次

基于生物多样性保护的兴安落叶松与白桦最佳混交比例——以阿尔山林区为例.....	李菁, 骆有庆, 石娟 (4943)
中国能源消费碳排放的时空特征 .....	舒娱琴 (4950)
黄土丘陵沟壑区坡面尺度土壤水分空间变异及影响因子 .....	姚雪玲, 傅伯杰, 吕一河 (4961)
新疆艾比湖流域土壤有机质的空间分布特征及其影响因素.....	王合玲, 张辉国, 秦璐, 等 (4969)
雅鲁藏布江山南宽谷风沙化土地土壤养分和粒度特征.....	李海东, 沈渭寿, 邹长新, 等 (4981)
一株溶藻细菌对海洋原甲藻的溶藻效应.....	史荣君, 黄洪辉, 齐占会, 等 (4993)
砷形态对黑藻和竹叶眼子菜有机酸含量的影响.....	钟正燕, 王宏镔, 王海娟, 等 (5002)
七项河流附着硅藻指数在东江的适用性评估.....	邓培雁, 雷远达, 刘威, 等 (5014)
杭州湾滨海湿地不同植被类型沉积物磷形态变化特征.....	梁威, 邵学新, 吴明, 等 (5025)
剪形臂尾轮虫形态的时空变化及其与生态因子间的关系.....	葛雅丽, 席贻龙, 马杰, 等 (5034)
太湖流域河流水质状况对景观背景的响应.....	周文, 刘茂松, 徐驰, 等 (5043)
荒漠植物白刺属4个物种的生殖分配比较.....	李清河, 辛智鸣, 高婷婷, 等 (5054)
臭氧浓度升高对香樟叶片光合色素及抗过氧化的影响及其氮素响应.....	牛俊峰, 张巍巍, 李丽, 等 (5062)
不同密度下凤仙花重要形态性状与花朵数的关系.....	田旭平, 常洁, 李娟娟, 等 (5071)
五种高速公路边坡绿化植物的生理特性及抗旱性综合评价.....	谭雪红, 高艳鹏, 郭小平, 等 (5076)
散孔材与环孔材树种枝干、叶水力学特性的比较研究 .....	左力翔, 李俊辉, 李秧秧, 等 (5087)
北京城区行道树国槐叶面尘分布及重金属污染特征 .....	戴斯迪, 马克明, 宝乐 (5095)
南亚热带米老排人工林碳贮量及其分配特征 .....	刘恩, 刘世荣 (5103)
植物生活史型定量划分及其权重配置方法——以四棱豆生活史型划分为例 .....	赵则海 (5110)
半干旱区湿地-干草原交错带边界判定及其变化 .....	王晓, 张克斌, 杨晓晖, 等 (5121)
氮肥运筹对晚播冬小麦氮素和干物质积累与转运的影响 .....	吴光磊, 郭立月, 崔正勇, 等 (5128)
氮肥形态对冬小麦根际土壤氮素生理群活性及无机氮含量的影响 .....	熊淑萍, 车芳芳, 马新明, 等 (5138)
基于数字相机的冬小麦物候和碳交换监测 .....	周磊, 何洪林, 孙晓敏, 等 (5146)
黄土高原半湿润区气候变化对冬小麦生长发育及产量的影响 .....	姚玉璧, 王润元, 杨金虎, 等 (5154)
基于土地破坏的矿区生态风险评价:理论与方法 .....	常青, 邱瑶, 谢苗苗, 等 (5164)
基于生态位的山地农村居民点适宜度评价 .....	秦天天, 齐伟, 李云强, 等 (5175)
氯虫苯甲酰胺对黑肩绿盲蝽实验种群的影响 .....	杨洪, 王召, 金道超 (5184)
6种植物次生物质对斜纹夜蛾解毒酶活性的影响 .....	王瑞龙, 孙玉林, 梁笑婷, 等 (5191)
云南元江芒果园桔小实蝇成虫日活动规律及空间分布格局 .....	叶文丰, 李林, 孙来亮, 等 (5199)
重庆市蝴蝶多样性环境健康指示作用和环境监测评价体系构建 .....	邓合黎, 马琦, 李爱民 (5208)
<b>专论与综述</b>	
生态系统服务竞争与协同研究进展 .....	李鹏, 姜鲁光, 封志明, 等 (5219)
中国沿海无柄蔓足类研究进展 .....	严涛, 黎祖福, 胡煜峰, 等 (5230)
冰雪灾害对森林的影响 .....	郭淑红, 薛立 (5242)
不同干扰因素对森林和湿地温室气体通量影响的研究进展 .....	杨平, 全川 (5254)
采石场废弃地的生态重建研究进展 .....	杨振意, 薛立, 许建新 (5264)
<b>研究简报</b>	
基于地统计学和 CFI 样地的浙江省森林碳空间分布研究 .....	张峰, 杜群, 葛宏立, 等 (5275)

期刊基本参数:CN 11-2031/Q \* 1981 \* m \* 16 \* 344 \* zh \* P \* ¥ 70.00 \* 1510 \* 36 \* 2012-08



封面图说: 秋色藏野驴群——秋天已经降临在海拔4200多米的黄河源区, 红色的西伯利亚蓼(生于盐碱荒地或砂质含盐碱土壤)铺满大地, 间有的高原苔草也泛出了金黄, 行走在上面的藏野驴们顾不上欣赏这美丽的秋色, 只是抓紧时间在严冬到来之前取食, 添肥增膘以求渡过青藏高原即将到来的漫长冬天。

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

## CONTENTS

The optimum mixture ratio of larch and birch in terms of biodiversity conservation: a case study in Aershan forest area .....	LI Jing, LUO Youqing, SHI Juan (4943)
Spatiotemporal characteristics of carbon emissions from energy consumption in China .....	SHU Yuqin (4950)
Spatial patterns of soil moisture at transect scale in the Loess Plateau of China .....	YAO Xueling, FU Bojie, LÜ Yihe (4961)
The characteristics of the spatial distribution of soil organic matter and factors influencing it in Ebinur Lake Basin of Xinjiang Autonomous Region, China .....	WANG Heling, ZHANG Huiguo, QIN Lu, et al (4969)
Soil nutrients content and grain size fraction of aeolian sandy land in the Shannan Wide Valley of the Yarlung Zangbo River, China .....	LI Haidong, SHEN Weishou, ZOU Changxin, et al (4981)
Algicidal activity against <i>Prorocentrum micans</i> by a marine bacterium isolated from a HABs area, South China .....	SHI Rongjun, HUANG Honghui, QI Zanhui, et al (4993)
Effects of arsenic speciations on contents of main organic acids in <i>Hydrilla verticillata</i> and <i>Potamogeton malaianus</i> .....	ZHONG Zhengyan, WANG Hongbin, WANG Haijuan, et al (5002)
Exploration of benthic diatom indices to evaluate water quality in rivers in the Dongjiang basin .....	DENG Peiyuan, LEI Yuanda, LIU Wei, et al (5014)
Phosphorus fraction in the sediments from different vegetation type in hangzhou bay coastal wetlands .....	LIANG Wei, SHAO Xuexin, WU Ming, et al (5025)
Spatio-temporal variation of morphometric characteristics of <i>Brachionus forficula</i> in relation to ecological factors .....	GE Yali, XI Yilong, MA Jie, et al (5034)
Response of river water quality to background characteristics of landscapes in Taihu Lake basin .....	ZHOU Wen, LIU Maosong, XU Chi, et al (5043)
Reproductive allocation in four desert species of the genus <i>Nitraria</i> L. ....	LI Qinghe, XIN Zhiming, GAO Tingting, et al (5054)
Effects of elevated ozone on foliar chlorophyll content and antioxidant capacity in leaves of <i>Cinnamomum camphora</i> under enhanced nitrogen loads .....	NIU Junfeng, ZHANG Weiwei, LI Li, et al (5062)
Correlation analysis between floret numbers and important traits of <i>Impatiens balsamina</i> under different planting density .....	TIAN Xuping, CHANG Jie, LI Juanjuan, et al (5071)
Physiological characteristics and comprehensive evaluation of drought resistance in five plants used for roadside ecological restoration .....	TAN Xuehong, GAO Yanpeng, GUO Xiaoping, et al (5076)
Comparison of hydraulic traits in branches and leaves of diffuse- and ring-porous species .....	ZUO Lixiang, LI Junhui, LI Yangyang, et al (5087)
Distribution and heavy metal character of foliar dust on roadside tree <i>Sophora japonica</i> of urban area in Beijing .....	DAI Sidi, MA Keming, BAO Le (5095)
The research of carbon storage and distribution feature of the <i>Mytilaria laosensis</i> plantation in south sub-tropical area .....	LIU En, LIU Shirong (5103)
The novel methods of quantitative classification of plant life cycle forms and weight collocation: taking classification of life cycle forms of <i>Psophocarpus tetragonolobus</i> as an example .....	ZHAO Zehai (5110)
Research on boundary definition and changes of wetland-dry grassland ...	WANG Xiao, ZHANG Kebin, YANG Xiaohui, et al (5121)
Differential effects of nitrogen managements on nitrogen, dry matter accumulation and transportation in late-sowing winter wheat .....	WU Guanglei, GUO Liyue, CUI Zhengyong, et al (5128)
Effects of nitrogen form on the activity of nitrogen bacteria group and inorganic nitrogen in rhizosphere soil of winter wheat .....	XIONG Shuping, CHE Fangfang, MA Xinming, et al (5138)
Using digital repeat photography to model winter wheat phenology and photosynthetic CO <sub>2</sub> uptake .....	ZHOU Lei, HE Honglin, SUN Xiaomin, et al (5146)
Impacts of climate change on growth and yield of winter wheat in the semi-humid region of the Loess Plateau .....	YAO Yubi, WANG Runyuan, YANG Jinhu, et al (5154)
Theory and method of ecological risk assessment for mining areas based on the land destruction .....	CHANG Qing, QIU Yao, XIE Miaomiao, et al (5164)
Suitability evaluation of rural residential land based on niche theory in mountainous area .....	QIN Tiantian, QI Wei, LI Yunqiang, et al (5175)
Effects of chlorantraniliprole on experimental populations of <i>Cyrtorhinus lividipennis</i> (Reuter) (Hemiptera: Miridae) .....	YANG Hong, WANG Zhao, JIN Daochao (5184)
Effects of six plant secondary metabolites on activities of detoxification enzymes in <i>Spodoptera litura</i> .....	WANG Ruilong, SUN Yulin, LIANG Xiaoting, et al (5191)
Daily activity and spatial distribution pattern of the oriental fruit fly, <i>Bactrocera dorsalis</i> (Diptera: Tephritidae) in mango orchard, Yuanjiang, Yunnan .....	YE Wenfeng, LI Lin, SUN Lailiang, et al (5199)
The establishment of the indication on environmental health of butterfly and of the environmental monitoring evaluation system in Chongqing .....	DENG Heli, MA Qi, LI Aimin (5208)
<b>Review and Monograph</b>	
Research progress on trade-offs and synergies of ecosystem services: an overview .....	LI Peng, JIANG Luguang, FENG Zhiming, et al (5219)
A review on the balanomorph barnacles in the coastal waters of China .....	YAN Tao, LI Zufu, HU Yufeng, et al (5230)
Effects of ice-snow damage on forests .....	GUO Shuhong, XUE Li (5242)
Greenhouse gas flux from forests and wetlands: a review of the effects of disturbance .....	YANG Ping, TONG Chuan (5254)
Advances in ecology restoration of abandoned quarries .....	YANG Zhenyi, XUE Li, XU Jianxin (5264)
<b>Scientific Note</b>	
Spatial distribution of forest carbon in Zhejiang Province with geostatistics based on CFI sample plots .....	ZHANG Feng, DU Qun, GE Hongli, et al (5275)