

ISSN 1000-0933

CN 11-2031/Q

生态学报

Acta Ecologica Sinica



第 33 卷 第 20 期 Vol.33 No.20 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.20 Oct. ,2013(Semimonthly)
CONTENTS

Frontiers and Comprehensive Review

- Spatial variability of small and medium scales' resource abundance of *Ommastrephes bartramii* in Northwest Pacific YANG Mingxia, CHEN Xinjun, FENG Yongjiu, et al (6427)
The effect of moisture and temperature on soil C mineralization in wetland and steppe of the Zoige region, China WANG Dan, LV Yuliang, XU Li, et al (6436)
Response and population bionomic strategies of desert rodent communities towards disturbance of cultivation YUAN Shuai, FU Heping, WU Xiaodong, et al (6444)
Effects of Bt-cotton on *Propylea japonica*, an Enemy Insect of *Bemisia tabaci* (Gennadius) ZHOU Fucai, GU Aixiang, YANG Yizhong, et al (6455)

- Research progress in the ecological effects of micro-landform modification WEI Wei, YU Yun, JIA Fuyan, et al (6462)

Autecology & Fundamentals

- A multi-scale feeding habitat selection of Red-crowned crane during spring migration at the Shuangtaihekou Nature Reserve, Liaoning Province, China WU Qingming, ZOU Hongfei, JIN Hongyang, et al (6470)
Surface pollen research of Nanshan region, Shihezi City in Xinjiang ZHANG Hui, ZHANG Yun, YANG Zhenjing, et al (6478)
Dynamics of leaf carbon, nitrogen and phosphorus of two dominant species in a Poyang Lake wetland ZHENG Yanming, YAO Bo, WU Qin, et al (6488)
Estimation of forest aboveground biomass using high spatial resolution remote sensing imagery HUANG Jinlong, JU Weimin, ZHENG Guang, et al (6497)
Cost-benefits of the clonal integration of *Cynodon dactylon*, a stolon herbaceous plant, under heterogeneous lighting condition TAO Yingshi, HONG Shengchun, LIAO Yongmei, et al (6509)
Biological cycling of *Koelreuteria paniculata* plantation microelements in Xiangtan Manganese Mine wasteland LUO Zhaozhi, TIAN Dalun, TIAN Hongdeng, et al (6517)
Effects of ectomycorrhizal fungi (*Tinctorius* (Pers.) Coker & Couch) on the biomass of masson pine (*Pinus massoniana*) seedlings under simulated acid rain CHEN Zhan, WANG Lin, SHANG He (6526)
Effects of biochar on selected soil chemical properties and on wheat and millet yield CHEN Xinxiang, HE Xusheng, GENG Zengchao, et al (6534)
Source of variation of plant functional traits in the Yanhe river watershed: the influence of environment and phylogenetic background ZHANG Li, WEN Zhongming, MIAO Lianpeng (6543)
The general biology and experimental population life table about *Asynacta ambrostomae* WANG Xiumei, ZANG Liansheng, LIN Baoqing, et al (6553)
Effect of several ecological factors on embryonic development of *Sepia lycidas* PENG Ruibing, JIANG Xiamin, YU Shuguang, et al (6560)

Population, Community and Ecosystem

- The thinning regular of the the shrubbery at Tongguling National Nature Reserve on Hainan Island, China ZHOU Wei, LONG Cheng, YANG Xiaobo, et al (6569)
The cause of grassland degradation in Golog Tibetan Autonomous Prefecture in the Three Rivers Headwaters Region of Qinghai Province ZHAO Zhiping, WU Xiaopu, LI Guo, et al (6577)
Effects of simulated nitrogen deposition on substrate quality of litterfall in a *Pleioblastus amarus* plantation in Rainy Area of West China XIAO Yinlong, TU Lihua, HU Tingxing, et al (6587)
Phytoplankton community structure based on pigment composition in Qinzhou bay during average water period LAN Wenlu, LI Mingmin, LI Tianshen (6595)
Functional trait-based evaluation of plant fireproofing capability for subtropical evergreen broad-leaved woody plants LI Xiupeng, YANG Xiaodong, YU Shuquan, et al (6604)
Interspecific associations between *Parus major* and other bird communities in Beijing Xishan region DONG Daying, FAN Zhongji, LI Zhaxijie, et al (6614)

- Feasibility analysis of passive integrated transponders in population ecology studies of Siberian chipmunk YANG Hui, MA Jianzhang, RONG Ke (6634)

Landscape, Regional and Global Ecology

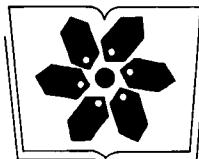
- Dynamic variation of water deficit of winter wheat and its possible climatic factors in Northern China LIU Qin, MEI Xurong, YAN Changrong, et al (6643)
- Study on the levels' evaluation of provincial low-carbon development in China based on the FAHP-TOPSIS method HU Linlin, JIA Junsong, MAO Duanqian, et al (6652)
- An investigation of the safety threshold of a floodplain wetland: a case study of the Er-Ka Nature Reserve, China HU Chunming, LIU Ping, ZHANG Litian, et al (6662)
- Application of le bissonnais method to study soil aggregate stability under different vegetation on the loess plateau LIU Lei, AN Shaoshan, Huang Huawei (6670)
- Analysis of vegetation and soil degradation characteristics under different human disturbance in lakeside wetland, Napahai TANG Mingyan, YANG Yongxing (6681)

Resource and Industrial Ecology

- Changes of land surface temperature and its response to urbanization under the extreme high-temperature background in recent ten years of Beijing LI Xiaomeng, SUN Yonghua, MENG Dan, et al (6694)
- Stable isotope (^{13}C and ^{15}N) analysis of fish food web of the Xiaojiang Bay in Three Gorges Reservoir LI Bin, XU Dandan, WANG Zhijian, et al (6704)

Research Notes

- Dynamics of CO_2 exchange and its environmental controls in an urban green-land ecosystem in Beijing Olympic Forest Park CHEN Wenjing, LI Chunyi, HE Guimei, et al (6712)
- Effects of vegetation restoration on landscape pattern of Hongya Country in recent 15 years WANG Peng, LI Xianwei, ZHAO Anjiu, et al (6721)
- Photosynthetic characteristics and SAMS gene expression in the red alga *Porphyra yezoensis* Ueda under high salinity ZHOU Xianghong, YI Lefei, XU Juntian, et al (6730)



中国科学院科学出版基金资助出版

生态学报 (SHENTAI XUEBAO)

第33卷 第20期 2013年10月 (半月刊)

目 次

前沿理论与学科综述

- 中小尺度下西北太平洋柔鱼资源丰度的空间变异 杨铭霞, 陈新军, 冯永玖, 等 (6427)
水分和温度对若尔盖湿地和草甸土壤碳矿化的影响 王丹, 吕瑜良, 徐丽, 等 (6436)
荒漠啮齿动物群落对开垦干扰的响应及其种群生态对策 袁帅, 付和平, 武晓东, 等 (6444)
转Bt基因棉花对烟粉虱天敌昆虫龟纹瓢虫的影响 周福才, 顾爱祥, 杨益众, 等 (6455)
微地形改造的生态环境效应研究进展 卫伟, 余韵, 贾福岩, 等 (6462)

个体与基础生态

- 丹顶鹤春迁期觅食栖息地多尺度选择——以双台河口保护区为例 吴庆明, 邹红菲, 金洪阳, 等 (6470)
新疆石河子南山地区表土花粉研究 张卉, 张芸, 杨振京, 等 (6478)
鄱阳湖湿地两种优势植物叶片C、N、P动态特征 郑艳明, 尧波, 吴琴, 等 (6488)
基于高分辨率遥感影像的森林地上生物量估算 黄金龙, 居为民, 郑光, 等 (6497)
异质性光照下匍匐茎草本狗牙根克隆整合的耗益 陶应时, 洪胜春, 廖咏梅, 等 (6509)
湘潭锰矿废弃地栾树人工林微量元素生物循环 罗赵慧, 田大伦, 田红灯, 等 (6517)
接种彩色豆马勃对模拟酸沉降下马尾松幼苗生物量的影响 陈展, 王琳, 尚鹤 (6526)
生物炭对不同土壤化学性质、小麦和糜子产量的影响 陈心想, 何绪生, 耿增超, 等 (6534)
延河流域植物功能性状变异来源分析 张莉, 温仲明, 苗连朋 (6543)
榆紫叶甲赤眼蜂基础生物学特性及其实验种群生命表 王秀梅, 臧连生, 林宝庆, 等 (6553)
几种生态因子对拟目鸟贼胚胎发育的影响 彭瑞冰, 蒋霞敏, 于曙光, 等 (6560)

种群、群落和生态系统

- 海南铜鼓岭灌木林稀疏规律 周威, 龙成, 杨小波, 等 (6569)
青海三江源区果洛藏族自治州草地退化成因分析 赵志平, 吴晓莆, 李果, 等 (6577)
模拟氮沉降对华西雨屏区苦竹林凋落物基质质量的影响 肖银龙, 涂利华, 胡庭兴, 等 (6587)
基于光合色素的钦州湾平水期浮游植物群落结构研究 蓝文陆, 黎明民, 李天深 (6595)
基于功能性状的常绿阔叶植物防火性能评价 李修鹏, 杨晓东, 余树全, 等 (6604)
北京西山地区大山雀与其它鸟类种群种间联结分析 董大颖, 范宗骥, 李扎西姐, 等 (6614)
被动式电子标签用于花鼠种群动态研究的可行性 杨慧, 马建章, 戎可 (6634)

景观、区域和全球生态

- 华北冬小麦降水亏缺变化特征及气候影响因素分析 刘勤, 梅旭荣, 严昌荣, 等 (6643)
基于FAHP-TOPSIS法的我国省域低碳发展水平评价 胡林林, 贾俊松, 毛端谦, 等 (6652)
河漫滩湿地生态阈值——以二卡自然保护区为例 胡春明, 刘平, 张利田, 等 (6662)
应用Le Bissonnais法研究黄土丘陵区植被类型对土壤团聚体稳定性的影响 刘雷, 安韶山, 黄华伟 (6670)
不同人为干扰下纳帕海湖滨湿地植被及土壤退化特征 唐明艳, 杨永兴 (6681)

资源与产业生态

近 10 年北京极端高温天气条件下的地表温度变化及其对城市化的响应 李晓萌, 孙永华, 孟丹, 等 (6694)

三峡库区小江库湾鱼类食物网的稳定 C、N 同位素分析 李斌, 徐丹丹, 王志坚, 等 (6704)

研究简报

北京奥林匹克森林公园绿地碳交换动态及其环境控制因子 陈文婧, 李春义, 何桂梅, 等 (6712)

植被恢复对洪雅县近 15 年景观格局的影响 王鹏, 李贤伟, 赵安玖, 等 (6721)

高盐下条斑紫菜光合特性和 S-腺苷甲硫氨酸合成酶基因表达的变化 周向红, 易乐飞, 徐军田, 等 (6730)

学术信息与动态

生态系统服务研究进展——2013 年第 11 届国际生态学大会 (INTECOL Congress) 会议述评 房学宁, 赵文武 (6736)

生态系统服务评估——2013 年第 6 届生态系统服务伙伴国际学术年会述评 巩杰, 岳天祥 (6741)

回顾过去, 引领未来——2013 年第 5 届国际生态恢复学会大会 (SER 2013) 简介 彭少麟, 陈宝明, 周婷 (6744)

期刊基本参数: CN 11-2031/Q * 1981 * m * 16 * 320 * zh * P * ¥ 90.00 * 1510 * 33 * 2013-10



封面图说: 荒漠旱獭——旱獭属啮齿目、松鼠科、旱獭属, 是松鼠科中体型最大的一种。旱獭多栖息于平原、山地和荒漠草原地带, 集群穴居, 挖掘能力甚强, 洞道深而复杂, 多挖在岩石坡和沟谷灌丛下, 从洞中推出的大量沙石堆在洞口附近, 形成旱獭丘。荒漠啮齿动物是荒漠生态系统的重要成分, 农业开垦对功能相对脆弱的荒漠生态系统的干扰极大, 往往导致栖息地破碎化, 对动植物种产生强烈影响, 啮齿动物受到开垦干扰后对环境的响应及其群落的生态对策, 是荒漠生态系统生物多样性及其功能维持稳定的重要基础。

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