

# 植物生态学报

Zhiwu Shengtai Xuebao

2010年9月 第34卷 第9期

## 目次

研究论文	1066	樟子松人工林细根寿命估计及影响因子研究 邱俊 谷加存 姜红英 王政权
1007 内蒙古东部天然白桦林的凋落物性质和储量 及其随温度和降水梯度的变化格局 陈莎莎 刘鸿雁 郭大立	1075	克隆整合有助于狗牙根抵御水淹 张想英 樊大勇 谢宗强 熊高明 李兆佳
1016 内蒙古锡林郭勒草原大针茅-克氏针茅群落 的种间关联特征分析 刘珏宏 高慧 张丽红 陈丽萍 赵念席 高玉葆	1084	华北地区小丛红景天种群的AFLP遗传多样性 张云红 侯艳 娄安如
1025 塔克拉玛干沙漠南缘豆科与非豆科植物的氮 分配 朱军涛 李向义 张希明 林丽莎 杨尚功	1095	石油烃污染对海洋浮游植物群落的短期毒性 效应 黄逸君 江志兵 曾江宁 陈全震
1033 基于祁连山树轮宽度指数的区域NDVI重建 王文志 刘晓宏 陈拓 安文玲 徐国保	综述	
1045 川西卧龙国家级自然保护区树木生长对气候 响应的稳定性评估 李宗善 刘国华 傅伯杰 张齐兵 胡婵娟 罗淑政	1107	农业生物多样性持续控制有害生物的机理研究 进展 高东 何霞红 朱有勇
1058 武汉市51种园林植物的气体交换特性 廖建雄 史红文 鲍大川 段庆明	简报	
	1117	酸雨胁迫对苦楮幼苗气体交换与叶绿素荧光 的影响 金清江 洪余树全 殷秀敏

封面说明：内蒙古赤峰斑块状分布的天然白桦林秋季景观。陈莎莎等研究了这类森林地表凋落物性质和储量随温度和降水梯度的变化(本期1007-1015页)。(印婧婧摄)

# Chinese Journal of Plant Ecology

September 2010 Vol. 34 No. 9

## CONTENTS

### Research Articles

- 1007 Litter stocks and chemical quality of natural birch forests along temperature and precipitation gradients in eastern Inner Mongolia, China  
CHEN Sha-Sha, LIU Hong-Yan and GUO Da-Li
- 1016 Comparative analysis of inter-specific association within the *Stipa grandis*-*S. krylovii* community in typical steppe of Inner Mongolia, China  
LIU Jue-Hong, GAO Hui, ZHANG Li-Hong, CHEN Li-Ping, ZHAO Nian-Xi and GAO Yu-Bao
- 1025 Nitrogen allocation and partitioning within a leguminous and two non-leguminous plant species growing at the southern fringe of China's Taklamakan Desert  
ZHU Jun-Tao, LI Xiang-Yi, ZHANG Xi-Ming, LIN Li-Sha and YANG Shang-Gong
- 1033 Reconstruction of regional *NDVI* using tree-ring width chronologies in the Qilian Mountains, north-western China  
WANG Wen-Zhi, LIU Xiao-Hong, CHEN Tuo, AN Wen-Ling and XU Guo-Bao
- 1045 Evaluation of temporal stability in tree growth-climate response in Wolong National Natural Reserve, western Sichuan, China  
LI Zong-Shan, LIU Guo-Hua, FU Bo-Jie, ZHANG Qi-Bing, HU Chan-Juan and LUO Shu-Zheng
- 1058 Gas exchange characteristics of 51 garden species in Wuhan City, China

LIAO Jian-Xiong, SHI Hong-Wen, BAO Da-Chuan and DUAN Qing-Ming

- 1066 Factors influencing fine root longevity of plantation-grown *Pinus sylvestris* var. *mongolica*  
QIU Jun, GU Jia-Cun, JIANG Hong-Ying and WANG Zheng-Quan
- 1075 Clonal integration enhances performance of *Cynodon dactylon* subjected to submergence  
ZHANG Xiang-Ying, FAN Da-Yong, XIE Zong-Qiang, XIONG Gao-Ming and LI Zhao-Jia
- 1084 Population genetic diversity of *Rhodiola dumulosa* in Northern China inferred from AFLP makers  
ZHANG Yun-Hong, HOU Yan and LOU An-Ru
- 1095 Short-term toxic effects of crude oil pollution on marine phytoplankton community  
HUANG Yi-Jun, JIANG Zhi-Bing, ZENG Jiang-Ning and CHEN Quan-Zhen

### Review

- 1107 Review of advances in mechanisms of sustainable management of pests by agro-biodiversity  
GAO Dong, HE Xia-Hong and ZHU You-Yong

### Research Communications

- 1117 Effects of acid rain stress on gas exchange and chlorophyll fluorescence of *Castanopsis sclerophylla* seedlings  
JIN Qing, JIANG Hong, YU Shu-Quan and YIN Xiu-Min

---

**Cover illustration:** The landscape of patchy white birch forests in autumn in Chifeng of Inner Mongolia, China, where Chen *et al.* investigated the changes of forest floor litter quality and stocks along temperature and precipitation gradients (Pages 1007–1015 of this issue). (Photographed by YIN Jing-Jing)