

植物生态学报

Zhiwu Shengtai Xuebao

2011年2月 第35卷 第2期

目次

研究论文

- 119 中国区域478种C₃植物叶片碳稳定性同位素组成与水分利用效率
任书杰 于贵瑞
- 125 模拟氮沉降对华西雨屏区苦竹林土壤有机碳和养分的影响
涂利华 胡庭兴 张健 李仁洪 戴洪忠 雒守华
- 137 海南岛霸王岭热带云雾林雨季的环境特征
龙文兴 丁易 臧润国 杨民 陈少伟
- 147 模拟夏季干旱对东灵山森林植被动态的影响
李亮 苏宏新 桑卫国
- 159 长白山高山苔原雪斑大白花地榆群落土壤氮素动态与生产力的关系
徐倩倩 刘琪璟 张国春
- 167 内蒙古农牧交错区不同土地利用方式下土壤呼吸速率及其温度敏感性变化
马骏 唐海萍
- 176 滤除自然光中UV-B辐射成分对高山植物美丽风毛菊光合生理的影响
师生波 尚艳霞 朱鹏锦 张德罡
- 187 鄂东南低丘地区枫香林下枫香幼苗更新限制因子
王传华 李俊清 陈芳清 杨莹
- 195 结实期土壤水分亏缺影响水稻籽粒灌浆的生理原因
王维 蔡一霞 杨建昌 朱庆森
- 203 不同基因型冬小麦旗叶的稳定碳同位素比值及其与产量和水分利用效率的关系
樊廷录 马明生 王淑英 李尚中 赵刚
- 214 外源酚酸对欧美杨‘I-107’水培幼苗硝态氮吸收利用的影响
王华田 杨阳 王延平 姜岳忠 王宗芹
- 223 水体阿特拉津残留对水葱生物量及生理特性的影响
王庆海 张威 却晓娥 武菊英 张国安 肖波
- 综述
- 232 球囊霉素相关土壤蛋白根际环境功能研究进展
黄艺 王东伟 蔡佳亮 郑维爽

封面说明: 四川省洪雅县柳江镇森林和田景观(“华西雨屏区”的核心地带)。涂利华等研究了模拟氮沉降对该地区苦竹林土壤有机碳和养分的影响(本期125-136页)。(涂利华摄)

Chinese Journal of Plant Ecology

February 2011 Vol. 35 No. 2

CONTENTS

Research Articles

- 119 Carbon isotope composition ($\delta^{13}\text{C}$) of C_3 plants and water use efficiency in China
REN Shu-Jie and YU Gui-Rui
- 125 Response of soil organic carbon and nutrients to simulated nitrogen deposition in *Pleioblastus amarus* plantation, Rainy Area of West China
TU Li-Hua, HU Ting-Xing, ZHANG Jian, LI Ren-Hong, DAI Hong-Zhong and LUO Shou-Hua
- 137 Environmental characteristics of tropical cloud forests in the rainy season in Bawangling National Nature Reserve on Hainan Island, South China
LONG Wen-Xing, DING Yi, ZANG Run-Guo, YANG Min and CHEN Shao-Wei
- 147 Simulating impacts of summer drought on forest dynamics in Dongling Mountain
LI Liang, SU Hong-Xin and SANG Wei-Guo
- 159 Soil nitrogen dynamics and productivity of snowpack *Sanguisorba sitchensis* community in alpine tundra of Changbai Mountain, China
XU Qian-Qian, LIU Qi-Jing and ZHANG Guo-Chun
- 167 Variations of soil respiration rate and its temperature sensitivity among different land use types in the agro-pastoral ecotone of Inner Mongolia
MA Jun and TANG Hai-Ping
- 176 Effects of UV-B exclusion on photosynthetic physiology in alpine plant *Saussurea superba*
SHI Sheng-Bo, SHANG Yan-Xia, ZHU Peng-Jin and ZHANG De-Gang

- 187 Factors affecting seedling regeneration of *Liquidambar formosana* in the *L. formosana* forests in hilly regions of Southeast Hubei, China
WANG Chuan-Hua, LI Jun-Qing, CHEN Fang-Qing and YANG Ying
- 195 Effects of soil water deficit on physiological causes of rice grain-filling
WANG Wei, CAI Yi-Xia, YANG Jian-Chang and ZHU Qing-Sen
- 203 Stable carbon isotope ratio ($\delta^{13}\text{C}$) in flag leaves of different genotypes of winter wheat and its relation to yield and water use efficiency
FAN Ting-Lu, MA Ming-Sheng, WANG Shu-Ying, LI Shang-Zhong and ZHAO Gang
- 214 Effects of exogenous phenolic acids on nitrate absorption and utilization of hydroponic cuttings of *Populus × euramericana* 'Neva'
WANG Hua-Tian, YANG Yang, WANG Yan-Ping, JIANG Yue-Zhong and WANG Zong-Qin
- 223 Effects of atrazine residue in water on biomass and physiological characteristics of *Scirpus tabernaemontani*
WANG Qing-Hai, ZHANG Wei, QUE Xiao-E, WU Ju-Ying, ZHANG Guo-An and XIAO Bo

Review

- 232 Review of glomalin-related soil protein and its environmental function in the rhizosphere
HUANG Yi, WANG Dong-Wei, CAI Jia-Liang and ZHENG Wei-Shuang

Cover illustration: The landscape of forest and farmland of Liujiang Town, Hongya County, Sichuan Province, China (central zone of Rainy Area of West China), where Tu *et al.* studied the response of soil organic carbon and nutrients to simulated nitrogen deposition in *Pleioblastus amarus* forest (Pages 125–136 of this issue). (Photographed by TU Li-Hua)