

植物生态学报

Chinese Journal of Plant Ecology

第36卷 第11期 2012年11月

Vol. 36 No. 11 November 2012



主办单位：中国科学院植物研究所
中国植物学会

Sponsors: Institute of Botany, Chinese Academy of Sciences
Botanical Society of China

植物生态学报

Zhiwu Shengtai Xuebao

2012年11月 第36卷 第11期

目次

研究论文

- | | |
|--|--|
| 1125 基于数字相机图像的西藏当雄高寒草地群落物候模拟 周磊 何洪林 张黎 孙晓敏 石培礼 任小丽 于贵瑞 | 1165 不同菌根类型的森林净初级生产力对气温变化的响应 石兆勇 王发园 苗艳芳 |
| 1136 金沙江干热河谷地区植物叶片中各生源要素的化学计量特征以及异速增长关系 闫帮国 何光熊 李纪潮 纪中华 | 1172 翠菊根系养分捕获形态塑性及其生理机制 董佳 牟溥 |
| 1145 青藏高原东缘星状风毛菊生殖分配对海拔的响应 王一峰 李梅 李世雄 郭杰 陈玉萍 王瑞雪 | 综述 1184 植物根系养分捕获塑性与根竞争 王鹏 牟溥 李云斌 |
| 1154 中国亚热带地区4种极危冷杉属植物的地理分布特征及其与气候的关系 李晓笑 陶翠 王清春 崔国发 | 1197 根系在凋落物层中的生长及其对凋落物分解的影响 马承恩 孔德良 陈正侠 郭俊飞 |
| | 1205 陆地生态系统植被氮磷化学计量研究进展 刘超 王洋 王楠 王根轩 |

封面说明: 青藏高原是菊科风毛菊属植物的现代分布中心之一, 而星状风毛菊是分布在该区的一种常见的风毛菊属植物。王一峰等研究了青藏高原东缘星状风毛菊的生殖分配对海拔的响应(1145–1153页) (王一峰摄)。

Chinese Journal of Plant Ecology

November 2012 Vol. 36 No. 11

CONTENTS

Research Articles

- 1125 Simulations of phenology in alpine grassland communities in Damxung, Xizang, based on digital camera images
ZHOU Lei, HE Hong-Lin, ZHANG Li, SUN Xiao-Min, SHI Pei-Li, REN Xiao-Li, and YU Gui-Rui
- 1136 Scaling relationships and stoichiometry of plant leaf biogenic elements from the arid-hot valley of Jinsha River, China
YAN Bang-Guo, HE Guang-Xiong, LI Ji-Chao, and JI Zhong-Hua
- 1145 Variation of reproductive allocation along elevations in *Saussurea stella* on East Qinghai-Xizang Plateau
WANG Yi-Feng, LI Mei, LI Shi-Xiong, GUO Jie, CHEN Yu-Ping, and WANG Rui-Xue
- 1154 Characteristics of geographic distribution of four critically endangered species of *Abies* in subtropical China and its relationship with climate
LI Xiao-Xiao, TAO Cui, WANG Qing-Chun, and CUI Guo-Fa
- 1165 Responses of net primary productivity to air temperature change in forests dominated by different mycorrhizal strategies
SHI Zhao-Yong, WANG Fa-Yuan, and MIAO Yan-Fang
- 1172 Root nutrient foraging of morphological plasticity and physiological mechanism in *Calistephus chinensis*
DONG Jia and MOU Pu

Reviews

- 1184 Review of root nutrient foraging plasticity and root competition of plants
WANG Peng, MOU Pu, and LI Yun-Bin
- 1197 Root growth into litter layer and its impact on litter decomposition: a review
MA Cheng-En, KONG De-Liang, CHEN Zheng-Xia, and GUO Jun-Fei
- 1205 Advances research in plant nitrogen, phosphorus and their stoichiometry in terrestrial ecosystems: a review
LIU Chao, WANG Yang, WANG Nan, and WANG Gen-Xuan

Cover illustration: The Qinghai-Xizang Plateau is one of modern distributive centers of the genus of *Saussurea* of Compositae. *Saussurea stella* is common in this region. Wang *et al.* investigated the variation of reproductive allocation along elevations in *S. stella* on East Qinghai-Xizang Plateau (Pages 1145–1153 of this issue) (Photographed by WANG Yi-Feng).