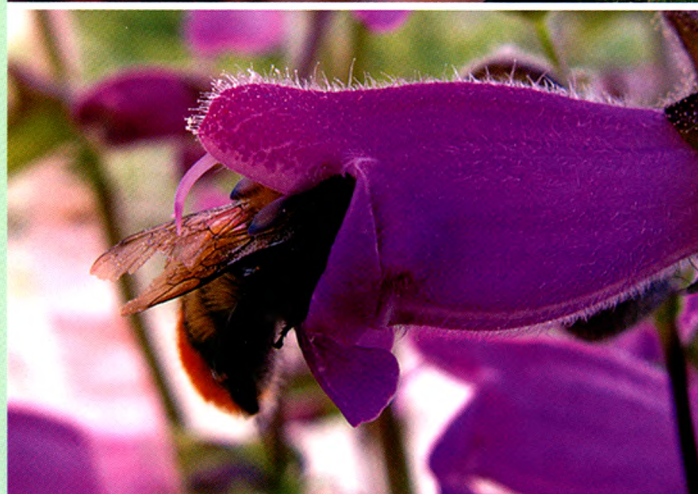
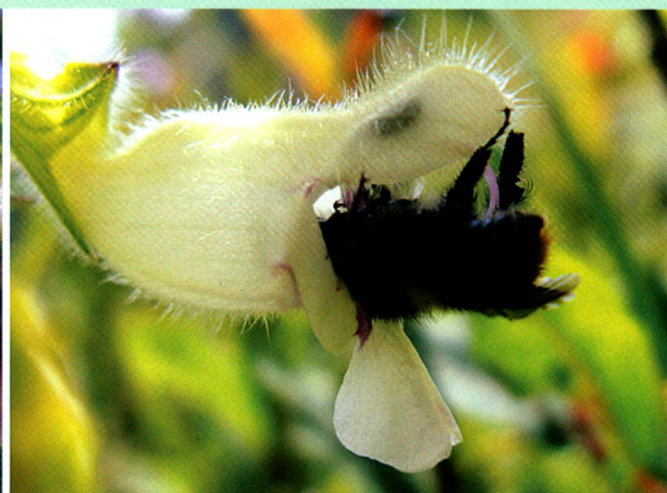


植物生态学报

Chinese Journal of Plant Ecology

第36卷 第7期 2012年7月 Vol. 36 No. 7 July 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7月 第36卷 第7期

目次

研究论文	655	非均匀水势下作物根系吸水模型分析 陈少清 朱大艺 欧忠辉
597 降水与CO ₂ 浓度协同作用对短花针茅光合特性的影响 王 慧 周广胜 蒋延玲 石耀辉 许振柱	662	田间条件下棉花幼叶光合特性及光保护机制 李 维 张亚黎 胡渊渊 杨美森 吴 洁 张旺锋
607 塔里木河中游绿洲盐漠带典型盐生植物光谱特征 张 飞 塔西甫拉提·特依拜 丁建丽 买买提·沙吾提 桂东伟	671	樟树幼苗机械损伤叶片对挥发性有机化合物及叶绿素荧光参数的影响 周 帅 林富平 王玉魁 沈应柏 张汝民 高荣孚 高 岩
618 宁夏平原北部地下水埋深浅地区不同灌木的水分来源 朱 林 许 兴 毛桂莲	681	鼠尾草属不同物种的雄蕊杠杆机制对传粉者空间变异的进化响应 张 勃 孙 杉 方强恩 白小明
629 1965–2010年大兴安岭森林火灾碳排放的估算研究 胡海清 魏书精 孙 龙	690	美人蕉对镉的胁迫反应及积累特性 张呈祥 陈为峰
645 间伐对川西亚高山粗枝云杉人工林细根生物量及碳储量的影响 刘运科 范 川 李贤伟 凌银花 周义贵 冯茂松 黄从德	697	氮和磷浓度对中肋骨条藻和锥状斯氏藻种间竞争的影响 葛 蔚 汪 芳 柴 超
	628	作者更正

封面说明: 鼠尾草属(*Salvia*)植物雄蕊杠杆传粉机制的多样性。左上图: 毛地黄鼠尾草, 背部传粉; 左下图: 近掌脉鼠尾草, 背部传粉; 右上图: 毛地黄鼠尾草, 腹部传粉; 右下图: 近掌脉鼠尾草, 腹部传粉。张勃等研究了该属不同物种的雄蕊杠杆机制对传粉者空间变异的进化响应(本期681–689)。雄蕊杠杆传粉机制在该属物种的适应辐射中具有关键作用。(张勃摄)

Chinese Journal of Plant Ecology

July 2012 Vol. 36 No. 7

CONTENTS

Research Articles

- 597 Interactive effects of changing precipitation and elevated CO₂ concentration on photosynthetic parameters of *Stipa breviflora*
WANG Hui, ZHOU Guang-Sheng, JIANG Yan-Ling, SHI Yao-Hui, and XU Zhen-Zhu
- 607 Spectral reflectance characteristics of typical halophytes in the oasis salinization-desert zone on middle reaches of Tarim River, China
ZHANG Fei, TASHPOLAT·Tiyip, DING Jian-Li, MAMAT·Sawut, and GUI Dong-Wei
- 618 Water sources of shrubs grown in the northern Ningxia Plain of China characterized by shallow groundwater table
ZHU Lin, XU Xing, and MAO Gui-Lian
- 629 Estimation of carbon emissions due to forest fire in Daxing'an Mountains from 1965 to 2010
HU Hai-Qing, WEI Shu-Jing, and SUN Long
- 645 Effects of thinning on fine root biomass and carbon storage of subalpine *Picea asperata* plantation in Western Sichuan Province, China
LIU Yun-Ke, FAN Chuan, LI Xian-Wei, LING Yin-Hua, ZHOU Yi-Gui, FENG Mao-Song, and HUANG Cong-De
- 655 Water uptake model analysis of crop roots under non-uniform water potential
CHEN Shao-Qing, ZHU Da-Yi, and OU Zhong-Hui
- 662 Research on the photoprotection and photosynthesis characteristics of young cotton leaves under field conditions
LI Wei, ZHANG Ya-Li, HU Yuan-Yuan, YANG Mei-Sen, WU Jie, and ZHANG Wang-Feng
- 671 Effects of mechanical damage of leaves on volatile organic compounds and chlorophyll fluorescence parameters in seedlings of *Cinnamomum camphora*
ZHOU Shuai, LIN Fu-Ping, WANG Yu-Kui, SHEN Ying-Bai, ZHANG Ru-Min, GAO Rong-Fu, and GAO Yan
- 681 Evolutionary response of staminal lever mechanism of different species in *Salvia* to spatial variation in pollinators
ZHANG Bo, SUN Shan, FANG Qiang-En, and BAI Xiao-Ming
- 690 Stress responses of *Canna indica* to Cd and its accumulation of Cd
ZHANG Cheng-Xiang and CHEN Wei-Feng
- 697 Effect of nitrogen and phosphorus concentration on interspecific competition between *Skeletonema costatum* and *Scrippsiella trochoidea*
GE Wei, WANG Fang, and CHAI Chao

Cover illustration: Diverse pollination modes by staminal lever in *Salvia*. Upper left: *S. digitaloides*, dorsal pollination; Lower left: *S. subpalmatinervis*, dorsal pollination; Upper right: *S. digitaloides*, ventral pollination; Lower right: *S. subpalmatinervis*, ventral pollination. Zhang *et al.* investigated evolutionary response of staminal lever mechanism to spatial variation in pollinator assemblage (Pages 681–689 of this issue). The staminal lever mechanism plays a key role in adaptive radiation of species in *Salvia*. (Photographed by ZHANG Bo)