

植物科学学报

(Zhiwu Kexue Xuebao)

第 39 卷 第 4 期 2021 年 8 月

目 次

系统与进化

- 瓶尔小草孢子发生超微结构研究(英文) 戴锡玲, 郭严冬, 王全喜, 曹建国(335)
- 中国樟科厚壳桂属系统发育与物种多样性研究 曹关龙, 邹典洋, 周润, 李朗, 李捷(349)
- 中国特有种贯顶大帽蕨西藏新分布及分布预测
..... 樊英杰, 廖雨佳, 王梦真, 刘凌, 宋晓彤, 邵小明(358)
- 中国 9 种石斛属植物的花药帽形态及其分类学意义初探
..... 王艳萍, 李楚然, 罗艳, 李青青, 李璐, 王晓云(367)

生态与生物地理

- 广义马铃苣苔属的生物地理格局与花部演化 金璇, 凌少军, 温放, 任明迅(379)
- 岷江上游干旱河谷西康扁桃灌丛生长繁殖特征 韦丹丹, 刘鑫, 王子龙, 包维楷(389)
- 模拟氮沉降对刺槐及沙棘凋落叶分解的影响 张晓曦, 王丽洁, 纪永康(398)

遗传与育种

- 月季品种‘绿萼’*RcAG* 基因启动子克隆及分析
..... 李蓉, 睦梦洁, 王其刚, 余春霞, 杜光辉, 晏慧君(407)
- 珍稀濒危植物半枫荷的遗传多样性及遗传结构
..... 叶兴状, 文国卫, 张明珠, 刘益鹏, 范辉华, 张国防, 陈世品, 刘宝(415)

生理与发育

- 两种红树植物不同种源幼苗对模拟高温热浪的光合生理响应差异
..... 张小燕, Alison Kim Shan Wee, Tadashi Kajita, 朱俊杰, 曹坤芳(424)
- 不同氮素形态配比对甘薯前期氮代谢的影响及其生理机制
..... 李成阳, 柴沙沙, 刘意, 王连军, 雷剑, 杨新笋, 张文英(433)

专题综述

- 茶树遗传转化研究进展 焦小雨, 王雷刚, 刘丹丹, 阮旭, 徐奕鼎, 吴琼, 孙明慧, 王文杰(446)

[期刊基本参数] CN42-1817/Q * 1983 * b * 16 * 122 * zh * P * ¥50.00 * 1200 * 12 * 2021-08

封面图片说明: 广义马铃苣苔属 (*Oreocharis*) 是我国苦苣苔科第二大属, 现有约 150 个物种, 集中分布于我国西南地区和华南大部分区域, 且绝大多数为狭域特有种。广义马铃苣苔属早期经历了快速的辐射进化, 在花冠形状、花冠颜色和雄蕊类型等方面表现出极大的变异, 其花部结构多样性基本涵盖了长蒴苣苔亚科植物所有的花部特征, 是揭示长蒴苣苔亚科乃至整个苦苣苔科适应进化规律和物种迁移历史的一个重要类群。相关内容详见本期 379~388 页金璇等的文章。

PLANT SCIENCE JOURNAL

Vol. 39 No. 4 Aug. 2021

CONTENTS

Systems and Evolution

- Ultrastructural study of sporogenesis in *Ophioglossum vulgatum* L.
..... Dai Xi-Ling, Guo Yan-Dong, Wang Quan-Xi, Cao Jian-Guo (335)
- A study on the phylogeny and species diversity of the genus *Cryptocarya* in China
..... Cao Guan-Long, Zou Dian-Yang, Zhou Run, Li Lang, Li Jie (349)
- New distribution and distribution prediction of the endemic species *Encalypta asiatica* J. C. Zhao & L. Li in Tibet, China
..... Fan Ying-Jie, Liao Yu-Jia, Wang Meng-Zheng, Liu Ling, Song Xiao-Tong, Shao Xiao-Ming (358)
- Preliminary study on morphology and taxonomic significance of anther cap in nine *Dendrobium* species (Orchidaceae)
from China Wang Yan-Ping, Li Chu-Ran, Luo Yan, Li Qing-Qing, Li Lu, Wang Xiao-Yun (367)

Ecology and Biogeography

- Biogeographical patterns and floral evolution of *Oreocharis* (Gesneriaceae)
..... Jin Xuan, Ling Shao-Jun, Wen Fang, Ren Ming-Xun (379)
- Growth and reproduction of *Amygdalus tangutica* (Batal.) Korsh. population in arid valley sites along the Minjiang
River Wei Dan-Dan, Liu Xin, Wang Zi-Long, Bao Wei-Kai (389)
- Effects of simulated nitrogen deposition on decomposition of foliar litter of *Robinia pseudoacacia* L. and *Hippophae
rhamnoides* L. Zhang Xiao-Xi, Wang Li-Jie, Ji Yong-Kang (398)

Genetics and Breeding

- Cloning and analysis of *RcAG* promoter in *Rosa chinensis* 'Viridiflora'
..... Li Rong, Sui Meng-Jie, Wang Qi-Gang, Yu Chun-Xia, Du Guang-Hui, Yan Hui-Jun (407)
- Genetic diversity and genetic structure of a rare and endangered species *Semiliquidambar cathayensis* Hung
T. Chang Ye Xing-Zhuang,
Wen Guo-Wei, Zhang Ming-Zhu, Liu Yi-Peng, Fan Hui-Hua, Zhang Guo-Fang, Chen Shi-Pin, Liu Bao (415)

Physiology and Development

- Differences in photosynthetic responses to simulated heat wave in seedlings of two mangrove species from different
provenances Zhang Xiao-Yan, Alison Kim Shan Wee, Tadashi Kajita, Zhu Jun-Jie, Cao Kun-Fang (424)
- Effects of different nitrogen forms and ratios on nitrogen metabolism in *Ipomoea batatas* (L.) Lam. and their
physiological mechanisms
Li Cheng-Yang, Chai Sha-Sha, Liu Yi, Wang Lian-Jun, Lei Jian, Yang Xin-Sun, Zhang Wen-Ying (433)

Review

- Research progress on genetic transformation of *Camellia sinensis* (L.) O. Kuntze
Jiao Xiao-Yu, Wang Lei-Gang, Liu Dan-Dan, Ruan Xu, Xu Yi-Ding, Wu Qiong, Sun Ming-Hui, Wang Wen-Jie (446)