

植物科学学报

(Zhiwu Kexue Xuebao)

第42卷 第5期 2024年10月

目次

系统与进化

- 中国铁角蕨科一新记录种——素功膜叶铁角蕨 梁思娣, 韦宏金 (555)
- 中国安息香属 22 种植物花粉形态及其分类学意义
..... 赵廖成, 张瑞, 钱庆炭, 唐子健, 周锦勋, 张芷轩, 唐明 (559)
- 国产龙血竭基原植物柬埔寨龙血树的分类学考证
..... 辛雅萱, 谭运洪, 辛培尧, 李海涛, 张淑红, 唐军荣, 郁文彬 (572)

生态与生物地理

- 南岭中段森林优势树种及其生态位随海拔梯度变化特征
..... 郭昊, 赵厚本, 高亿波, 冯慧芳, 周光益, 李兆佳, 宝音满达, 皮志豪, 王旭 (582)
- 湖北南河国家级自然保护区及周边七子花群落特征与种群结构
..... 张东, 宋帅帅, 吴浩, 邓正群, 史红文, 宿秀江, 李迪强, 江明喜, 魏新增 (595)
- 干旱胁迫下藏东南沙生植物非结构性碳水化合物分配策略研究
..... 艾盈, 刘海坤, 于林宏, 胡曼, 党海山 (602)

遗传与育种

- 猕猴桃 *AcSWEET* 基因家族的鉴定与表达分析
..... 郑帅, 韩世明, 郑浩, 徐明, 苑馨予, 董家琦, 钟彩虹, 张琼 (612)
- 朱红大杜鹃 *MADS-box* 基因家族的全基因组鉴定与特征分析
..... 柳文, 马永鹏, 应支萍, 杨琳祥, 谢孟, 马宏 (624)

生理与发育

- 大豆光合限制作用的土壤水-氮交互响应及其与叶片水分利用效率的关系
..... 朱凯, 范颖璇, 左齐慧, 谭思雨, 刘奋武, 张健, 秦俊梅, 高丽娜 (634)

专题综述

- 植物 *Phytocyanin* 蛋白家族研究进展
..... 贾雁茹, 靳雨璠, 焦元, 周映旭, 石杨, 陈稷, 陈雅妮, 黄衍焱, 黄进 (644)
- 空间代谢组技术在植物研究中的应用与前景
..... 李晓旭, 王晨璨, 丁文静, 梅曼, 张玉倩, 蔺宏霞, 赵媛媛 (654)
- 高等植物性别分化的研究进展 董家琦, 吴淋慧, 郑浩, 张琼, 钟彩虹 (664)
- 沉水植物无机氮利用策略研究进展 魏理, 鲜玲, 潘智鹏, 吴胜兵, 刘帆, 余俊爽 (673)
- 中国西南干热河谷萨王纳植被综述 朱华, 谭运洪, 杨永平 (682)

[期刊基本参数] CN42-1817/Q * 1983 * b * 16 * 142 * zh * P * ¥50.00 * 1200 * 14 * 2024-10

封面图片说明: 图片为中国西南金沙江干热河谷萨王纳植被, 摄于27°N的金沙江干流, 为中国西南纬度最高的干热河谷萨王纳植被类型。它以禾草为主, 其间散生灌木和乔木, 具有长期适应干热河谷生境的植物群落特征种和植物区系标识种, 是一类古老的原生“河谷型萨王纳”植被。研究内容详见本期 682~696 页朱华等的文章。

PLANT SCIENCE JOURNAL
Vol. 42 No. 5 Oct. 2024
CONTENTS

Systems and Evolution

- Hymenasplenium wusugongii* Li Bing Zhang, W.B. Liao & K.W. Xu (Aspleniaceae), a new record to China Liang Sidi, Wei Hongjin (555)
- Pollen morphology and its taxonomic significance in 22 species of *Styrax* (Styracaceae) from China Zhao Liaocheng, Zhang Rui, Qian Qingtan, Tang Zijian, Zhou Jinxun, Zhang Zhixuan, Tang Ming (559)
- Taxonomical clarification of *Dracaena cambodiana* Pierre ex Gagnep., the source plant of Chinese “Resina Draconis” Xin Yaxuan, Tan Yunhong, Xin Peiyao, Li Haitao, Zhang Shuhong, Tang Junrong, Yu Wenbin (572)

Ecology and Biogeography

- Characteristics of dominant tree species and their niches in the middle section of the Nanling Mountains with altitudinal gradient Guo Hao, Zhao Houben, Gao Yibo, Feng Huifang, Zhou Guangyi, Li Zhaojia, BaoYin Manda, Pi Zhihao, Wang Xu (582)
- Community characteristics and population structure of *Heptacodium miconioides* Rehder within and around Nanhe National Nature Reserve, Hubei Zhang Dong, Song Shuaishuai, Wu Hao, Deng Zhengqun, Shi Hongwen, Su Xiujiang, Li Diqiang, Jiang Mingxi, Wei Xinzeng (595)
- Study on non-structural carbohydrate allocation strategies of psammophytes induced by drought stress in southeastern Xizang Ai Ying, Liu Haikun, Yu Linhong, Hu Man, Dang Haishan (602)

Genetics and Breeding

- Identification and expression analysis of the *AcSWEET* gene family in *Actinidia chinensis* Planch. Zheng Shuai, Han Shiming, Zheng Hao, Xu Ming, Yuan Xinyu, Dong Jiaqi, Zhong Caihong, Zhang Qiong (612)
- Genome-wide identification and characterization of MADS-box gene family of *Rhododendron griersonianum* Balf. f. et Forrest Liu Wen, Ma Yongpeng, Ying Zhiping, Yang Linxiang, Xie Meng, Ma Hong (624)

Physiology and Development

- Photosynthetic limitation in soybean in response to soil water-nitrogen interactions and its relationship with leaf water use efficiency Zhu Kai, Fan Yingxuan, Zuo Qihui, Tan Siyu, Liu Fenwu, Zhang Jian, Qin Junmei, Gao Lina (634)

Review

- A review on the research progress of the Phycocyanin (PC) protein family Jia Yanru, Jin Yufan, Jiao Yuan, Zhou Yingxu, Shi Yang, Chen Ji, Chen Yani, Huang Yanyan, Huang Jin (644)
- Application and prospects of spatial metabolomics technology in plant research Li Xiaoxu, Wang Chencan, Ding Wenjing, Mei Man, Zhang Yuqian, Lin Hongxia, Zhao Yuanyuan (654)
- Research progress in sex differentiation of higher plants Dong Jiaqi, Wu Linhui, Zheng Hao, Zhang Qiong, Zhong Caihong (664)
- Utilization strategies of inorganic nitrogen in submerged macrophytes Wei Li, Xian Ling, Pan Zhipeng, Wu Shengbing, Liu Fan, Yu Junshuang (673)
- Review on savanna vegetation in the dry hot river valleys of southwestern China Zhu Hua, Tan Yunhong, Yang Yongping (682)