

目次

新类群与新发现

长兴水韭,中国水韭属一个四倍体新种 ..... 童玲,沈佳豪,赵晓,严岳鸿,朱渝芬,武建勇,顾钰峰,刘兴剑(611)

辐冠苣苔属(苦苣苔科)一新替代名称——*Radiaticorollarus* Y. G. Wei, F. Wen & Lei Cai ..... 温放,韦毅刚,李晓娟,熊驰,蔡磊(619)

黑蜈蚣叶属(蜈蚣衣科)地衣一新种 ..... 蒋树浩,贾泽峰(621)

广西苦苣苔科植物一新种——平果报春苣苔 ..... 马虎生,陆昭岑,许为斌,盘波(629)

中国西南地区地图衣属一新种——四川地图衣 ..... 张彦猛,王伟成,王宇华,钟春娇,胡玲(635)

中国十字花科一新记录属——双袋芥属 ..... 杨宗宗,黄亚慧,赵晓林,张云玲(646)

半耳箬竹(竹亚科)的形态补充描述 ..... 高丽琴,李永龙,崔龄,杨光耀,张文根(650)

中国红蒴真藓复合群和一个新记录种 ..... 刘永英,牛俊英,唐启明,何文钊,韦玉梅(657)

系统与进化

基于叶绿体基因组解析半枫荷系统位置和进化 ..... 周云,韦妍妍(670)

14种酢浆草属植物花粉形态及其亲缘关系分析 ..... 陈生煜,唐小云,肖云,韩茹,翟俊文,吴沙沙(682)

海三棱藨草及其近缘种的DNA条形码研究 ..... 张仕兰,王岫岑,刘文亮(699)

三种灌木杜鹃花瓣和叶片的栓塞脆弱性分析 ..... 夏英,李婕婷,唐明,唐婧,张习敏(710)

锦绣杜鹃花药发育及散粉孔形成的形态与解剖学研究 ..... 马海英,杨瑞,杨柳,丁开宇(721)

毛竹种子形成过程中形态解剖学特征 ..... 贾冬冬,李在留,徐振国(730)

中国特有的两种同域分布凤仙花属植物的传粉生物学研究 ..... 张颖铎,朱永,李青青,王乐骋,陶磊,李璐(741)

春季开花植物膜苞鸢尾的花部综合征与繁育系统研究 ..... 李琪,马蕊泽,吉乃提汗·马木提(756)

中国野生半夏的遗传多样性和遗传结构研究 ..... 吴敏,吴诗琪,潘凤,石甜,赵财(766)

白芷全基因组测序分析及BGLU基因家族分析 ..... 王雅兰,周罗静,张灵迂,章景,卞金辉,高继海(777)

责任编辑 周翠鸣 蒋巧媛 邓斯丽 李莉  
责任校对 蒋巧媛 李莉 周翠鸣 王登惠 邓斯丽  
英文编辑/校对 李莉 邓斯丽 王登惠 周翠鸣 蒋巧媛  
封面/版式设计 邓斯丽 王登惠 蒋巧媛 李莉 周翠鸣

期刊基本参数: CN 45-1134/Q \* 1981 \* m \* A4 \* 184 \* zh+en \* P \* ¥45.00 \* 1200 \* 18 \* 2024-04

封面说明: 酢浆草属(*Oxalis*)隶属于酢浆草科(Oxalidaceae),约800种,主要分布于南美洲、中美洲温带和热带地区及非洲南部,是春、夏、秋、冬四季均可观赏的重要花卉。酢浆草属植物包含不同生活型,从草本到灌木到垫状植物,几乎能适应所有环境且栽培繁殖容易,花色丰富,具有较高的园林应用价值。但是,由于高度的形态变异和表型可塑性,加上缺少系谱方面背景资料,分类鉴定困难且各组之间关系尚不清楚,大大限制了该属的开发应用。花粉形态在一定程度上能够反映植物演化和亲缘关系,通过对酢浆草属植物花粉形态研究,进一步为酢浆草属植物杂交育种亲本选择提供理论基础。

照片示:部分代表性酢浆草物种。1. 芙蓉‘淡粉’; 2. 兔耳酢浆草; 3. 钝叶‘玫瑰清风’; 4. 钝叶‘樱桃奶油’; 5. 白花伞骨酢浆草。封面照片由陈生煜提供。相关内容详见本期正文682~698页陈生煜等的文章。

1	2	5
3	4	

CONTENTS

**New Taxa and New Discoveries**

*Isoëtes changxingensis* (Isoëtaceae), a new tetraploid quillwort species from China ..... TONG Ling, SHEN Jiahao, ZHAO Xiao, YAN Yuehong, ZHU Yufen, WU Jianyong, GU Yufeng, LIU Xingjian(611)

*Radiaticorollarius*, a new replacement name for *Actinostephanus* (Gesneriaceae, Didymocarpoideae) ..... WEN Fang, WEI Yigang, LI Xiaojuan, XIONG Chi, CAI Lei(619)

A new species of the lichen genus *Phaeophyscia* (Physciaceae) ..... JIANG Shuhao, JIA Zefeng(621)

*Primulina pingguoensis*, a new species of Gesneriaceae from Guangxi, China ..... MA Husheng, LU Zhaocen, XU Weibin, PAN Bo(629)

*Rhizocarpon sichuanense*, a new species from Southwest China ..... ZHANG Yanmeng, WANG Weicheng, WANG Yuhua, ZHONG Chunjiao, HU Ling(635)

*Didymophysa* Boiss., a newly recorded genus of Brassicaceae from Xinjiang, China ..... YANG Zongzong, HUANG Yahui, ZHAO Xiaolin, ZHANG Yunling(646)

Morphological supplementary description of *Indocalamus semifalcatus* (H. R. Zhao et Y. L. Yang) T. P. Yi (Bambusoideae) ..... GAO Liqin, LI Yonglong, CUI Ling, YANG Guangyao, ZHANG Wengen(650)

*Bryum atrovirens* Brid. complex (Bryaceae, Bryophyta) of China, including a new species record ..... LIU Yongying, NIU Junying, TANG Qiming, HO Boon-Chuan, WEI Yumei(657)

**Systematics and Evolution**

Plastid phylogenomics resolving phylogeny and evolution of *Semiliquidambar cathayensis* ..... ZHOU Yun, WEI Yanyan(670)

Pollen morphology and phylogenetic relationship of 14 *Oxalis* species ..... CHEN Shengyu, TANG Xiaoyun, XIAO Yun, HAN Ru, ZHAI Junwen, WU Shasha(682)

Study on *Bolboschoenoplectus mariqueter* and its related species based on DNA barcoding ..... ZHANG Shilan, WANG Yucen, LIU Wenliang(699)

Embolism vulnerability analysis of petals and leaves in three species of shrub *Rhododendron* ..... XIA Ying, LI Jieting, TANG Ming, TANG Jing, ZHANG Ximin(710)

Anther development and formation of dehiscence pore in *Rhododendron* *× pulchrum* ..... MA Haiying, YANG Rui, YANG Liu, DING Kaiyu(721)

Morphological and anatomical characteristics of *Phyllostachys edulis* seeds during formation process ..... JIA Dongdong, LI Zailiu, XU Zhenguo(730)

Pollination biology of two Chinese endemic and sympatric *Impatiens* (Balsaminaceae) species ..... ZHANG Yingduo, ZHU Yong, LI Qingqing, WANG Yuecheng, TAO Lei, LI Lu(741)

Floral syndrome and breeding system of the spring flowering plant *Iris scariosa* (Iridaceae) ..... LI Qi, MA Hanze, MAMUT Jannathan(756)

Genetic diversity and genetic structure of wild *Pinellia ternata* (Araceae) in China ..... WU Min, WU Shiqi, PAN Feng, SHI Tian, ZHAO Cai(766)

Complete genome sequencing and *BGLU* gene family analysis of *Angelica dahurica* ..... WANG Yalan, ZHOU Luoqing, ZHANG Lingyu, ZHANG Jing, BIAN Jinhui, GAO Jihai(777)

**Cover images:** Selective presentation of *Oxalis* species. 1. *Oxalis purpurea* ‘Pale Pink’; 2. *O. fabaefolia*; 3. *O. obtusa* ‘Rosey Breeze’; 4. *O. obtusa* ‘Cherry Cream’; 5. *O. cathara* ‘White’. Cover images are provided by CHEN Shengyu. For details, please see the text by CHEN Shengyu et al. on pages 682–698.