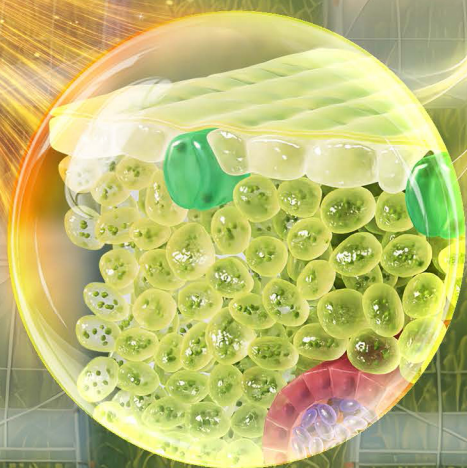
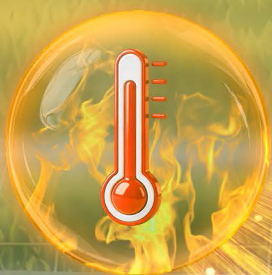


植物生态学报

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Zhiwu Shengtai Xuebao

2026年6月 第50卷 第6期

目 次

综述	蔡敏玲 陈铭皓 柯伟倩 彭长连
1265 植物养分重吸收及其影响因素研究进展 李 一 孟盛旺 杨风亭 高德才 戴晓琴 寇 亮 付晓莉 王辉民	1380 啮齿动物扰动抑制高寒草甸生态系统呼吸 俞东升 张泽龙 甘德钊 李 政 李会楠 林轸荣 马 磊 南丽丽
1282 菌根类型对土壤碳固持与分解影响的研究进展 耿嘉欣 李 楠 周灵燕 刘瑞强 纪宇骅 高 景 曹 磊 周旭辉	1393 北京山区典型人工林冠层降雨截留特征及模拟 左坤蛟 贾国栋 余新晓 蒋 涛 刘子赫
研究论文	1408 黄土丘陵区12个常见树种的叶和细根的压力-体积 相关性状和气孔敏感性 王艳圆 马国勇 田 鹏 代永欣 王 林
1292 小麦叶片温度与光合速率对极端高温的响应 王瑞琦 吉秋平 罗 雨 何龙鑫 郑海峰 徐彦森 冯兆忠	1419 水力性状与解剖结构对胡杨叶形态变化的影响 王海珍 王雨晴 马富龙 韩 路
1304 东北温带针阔混交林固碳速率与树木大小的关系 时君范 代 莹 郝珉辉 范春雨 赵秀海 张春雨	1436 橡胶树不同叶片物候期树干液流变化及其驱动机制 郭鑫炜 王关泽 孙 瑞 徐文娴 吴志祥
1316 草地利用方式及降水间隔变化对温带草甸草原土壤 无机磷组分的影响 袁淑雅 贺 晶 郭嘉庆 苏德荣	1448 混种对杉木和醉香含笑幼苗光合特征和根系生长的 影响 冯爽乙 贺梓晴 吴文字 曾曙才 赵 倩
1331 亚热带森林21种常见树种凋落叶冷水溶性和热水 溶性有机碳释放速率及其影响因素 邓晓铃 艾 灵 黄兴洲 吴福忠 徐绮雯 朱晶晶 倪祥银	1464 若尔盖高寒湿地优势种木里薹草对光照及土壤水分 变化的适应策略 李宇恒 陈 果 冷从媛 黄 瑾 李玉珠 孔祥翔
1343 全球植被总初级生产力产品在青藏高原高寒草甸 的适用性评价 李昱坤 郑周涛 丛 楠 赵 广 朱艺旋 张扬建 孙霄临 严 俊	1478 测量光中添加远红光对不同生长光强下栓皮栎光合 参数测定的影响 王 璇 甘长青 袁启华 衣 琳 蔡柯柯 游 珊 马文越 张新娜
1357 自然臭氧梯度下对叶榕挥发性有机化合物与气孔 特征的协同响应 方 旻 梁念念 Ramil KOHKAEW 樊松乐 贾永霞 宁秋蕊 刘 慧 于 慧	数据论文
1370 外源硝态氮添加对微甘菊主茎和分枝中花色素苷 积累的影响	1496 浙江安吉小鲵国家级自然保护区银缕梅的原生生境 群落特征及种群动态 金炼统 侯亚男 汪贤挺 郎泽东 俞立鹏 张丽芳 刘立斌 倪 健

封面说明: 极端高温下小麦叶片的生理调节。极端高温事件频发, 对小麦生长和产量形成构成重要威胁。王瑞琦等研究发现, 极端高温下小麦通过提高气孔导度、增强蒸腾作用和潜热散失, 缓冲高温对叶片温度的影响, 维持光合速率的相对稳定, 但这一调节过程以降低水分利用效率为代价。研究结果可为认识小麦高温适应机制及耐热栽培提供科学依据(本期1292-1303页)。

Chinese Journal of Plant Ecology

June 2026 Vol. 50 No. 6

CONTENTS

Reviews

- 1265 Research progress on plant nutrient resorption and its influencing factors
LI Yi, MENG Sheng-Wang, YANG Feng-Ting, GAO De-Cai, DAI Xiao-Qin, KOU Liang, FU Xiao-Li, and WANG Hui-Min
- 1282 Research progress on impact of mycorrhizal types on soil carbon sequestration and decomposition
GENG Jia-Xin, LI Nan, ZHOU Ling-Yan, LIU Rui-Qiang, JI Yu-Huang, GAO Jing, Cao Lei, and ZHOU Xu-Hui

Research Articles

- 1292 Responses of wheat leaf temperature and photosynthesis to extreme heat
WANG Rui-Qi, JI Qiu-Ping, LUO Yu, HE Long-Xin, ZHENG Hai-Feng, XU Yan-Sen, and FENG Zhao-Zhong
- 1304 Relationship between carbon sequestration rate and tree size in temperate coniferous and broadleaf mixed forest in Northeast China
SHI Jun-Fan, DAI Ying, HAO Min-Hui, FAN Chun-Yu, ZHAO Xiu-Hai, and ZHANG Chun-Yu
- 1316 Effects of grassland utilization and altered precipitation intervals on soil inorganic phosphorus fractions in a temperate meadow steppe
YUAN Shu-Ya, HE Jing, GUO Jia-Qing, and SU De-Rong
- 1331 Release rates and controlling factors of dissolved and hot-water extractable organic carbon during litter decomposition of 21 tree species in a subtropical forest
DENG Xiao-Ling, AI Ling, HUANG Xing-Zhou, WU Fu-Zhong, XU Qi-Wen, ZHU Jing-Jing, and NI Xiang-Yin
- 1343 Applicability assessment of global gross primary productivity products in alpine meadows of the Qingzang Plateau
LI Yu-Kun, ZHENG Zhou-Tao, CONG Nan, ZHAO Guang, ZHU Yi-Xuan, ZHANG Yang-Jian, SUN Xiao-Lin, and YAN Jun
- 1357 Coordinated responses of volatile odors and stomatal characteristics in *Ficus hispida* under natural ozone gradients
FANG Ni, LIANG Nian-Nian, Ramil KOHKAWE, FAN Song-Le, JIA Yong-Xia, NING Qiu-Rui, LIU Hui, and YU Hui
- 1370 Effect of exogenous nitrate addition on anthocyanin accumulation in the main stem and branches of *Mikania micrantha*
CAI Min-Ling, CHEN Ming-Hao, KE Wei-Qian, and PENG Chang-Lian

- 1380 Rodent disturbances inhibit ecosystem respiration in an alpine meadow
YU Dong-Sheng, ZHANG Ze-Long, GAN De-Zhao, LI Zheng, LI Hui-Nan, LIN Zhen-Rong, MA Lei, and NAN Li-Li
- 1393 Canopy rainfall interception characteristics and simulation in typical plantation forests in the mountainous region of Beijing
ZUO Kun-Jiao, JIA Guo-Dong, YU Xin-Xiao, JIANG Tao, and LIU Zi-He
- 1408 Pressure-volume traits and stomatal sensitivity of leaves and fine roots of 12 common tree species in loess gully region
WANG Yan-Yuan, MA Guo-Yong, TIAN Peng, DAI Yong-Xin, and WANG Lin
- 1419 Effects of hydraulic traits and anatomical structures on leaf morphological changes of *Populus euphratica*
WANG Hai-Zhen, WANG Yu-Qing, MA Fu-Long, and HAN Lu
- 1436 Seasonal variation in stem sap flow and its driving mechanisms across different leaf phenophases in *Hevea brasiliensis*
GUO Xin-Wei, WANG Guan-Ze, SUN Rui, XU Wen-Xian, and WU Zhi-Xiang
- 1448 Effects of mixed planting on photosynthetic characteristics and root growth of *Cunninghamia lanceolata* and *Michelia macclurei* seedlings
FENG Shuang-Yi, HE Zi-Qing, WU Wen-Yu, ZENG Shu-Cai, and ZHAO Qian
- 1464 Effects of light intensity and soil moisture on adaptive strategies of dominant species *Carex muliensis* in Zoigê alpine wetland
LI Yu-Heng, CHEN Guo, LENG Cong-Yuan, HUANG Jin, LI Yu-Zhu, and KONG Xiang-Xiang
- 1478 Effects of supplemental far-red light on photosynthetic parameters in *Quercus variabilis* under different growth light intensities
WANG Xuan, GAN Chang-Qing, YUAN Qi-Hua, YI Lin, CAI Ke-Ke, YOU Shan, MA Wen-Yue, and ZHANG Xin-Na

Data paper

- 1496 Community characteristics and population dynamics of *Parrotia subaequalis* in its primary habitat within the Zhejiang *Hynobius amjiensis* National Nature Reserve
JIN Lian-Tong, HOU Ya-Nan, WANG Xian-Ting, LANG Ze-Dong, YU Li-Peng, ZHANG Li-Fang, LIU Li-Bin, and NI Jian

Cover illustration: Physiological regulation of wheat leaves under extreme heat. Extreme heat events are becoming increasingly frequent, posing a major threat to wheat growth and yield formation. In this issue (pages 1292-1303), Wang et al. found that under extreme heat, wheat increases stomatal conductance, enhances transpiration, and promotes latent heat dissipation, thereby buffering the effects of high temperature on leaf temperature and maintaining relatively stable photosynthetic rates. However, this regulatory response comes at the cost of reduced water-use efficiency. These findings provide a scientific basis for understanding the mechanisms of wheat adaptation to high temperature and for developing heat-resilient cultivation practices.