

中文核心期刊 · 中国科技核心期刊 · 中国科协精品期刊



植物生理学报

Plant Physiology Journal

2018 年第 54 卷第 11 期
Vol. 54, No. 11, 2018

中国植物生理与植物分子生物学学会 主办
中国科学院上海生命科学研究院植物生理生态研究所
Sponsored by the Chinese Society for Plant Biology,
and the Institute of Plant Physiology and Ecology, SIBS, CAS
万方数据



科学出版社
Science Press

出版

植物生理学报

ZHIWU SHENGLI XUEBAO

(原刊名《植物生理学通讯》, 1951年创刊)

第54卷 第11期(总第369期)

2018年11月

目次

特约综述

- 知识共享——《Rice Protocol eBook》助力水稻生物学研究 袁猛, 刘铮, 王伟红, 熊立仲, 张启发 (1625)

综述

- 植物体内花青素苷生物合成及呈色的分子调控机制 庄维兵, 刘天宇, 束晓春, 渠慎春, 翟恒华, 王涛, 张凤娇, 王忠 (1630)
- 丛枝菌根中养分转运、代谢、利用与调控研究的最新进展 王浩, 方燕, 刘润进, 陈应龙 (1645)
- 膨胀素和木葡聚糖内转葡糖基酶/水解酶基因的功能研究进展 贾鑫磊, 何贝轩, 郭丹丹, 郭美丽 (1659)
- 褪黑素调节植物非生物胁迫耐性的机理 武兰兰, 郑耀庭, 李国元, 邹礼平, 产祝龙, 权文利 (1669)
- 关于蒸腾作用指标的探讨 康宗利, 王显玲, 冯玉龙 (1678)

研究报告

- 珍稀濒危植物金佛山兰的组培快繁 童虹宇, 周小雪, 李娟, 邓洪平, 王茜, 周启贵, 汤绍虎, 张军, 李中娟, 陈玉菡 (1681)
- 根非蛋白疏基化合物在箭舌豌豆两个品种镉耐性中的作用及机理 芮海云, 张兴兴, 庄凯, 沈振国, 张芬琴 (1687)
- 花生叶片旱后恢复生长的生理特征及相关基因表达的研究 刘星, 练思曼, 龙海涛, 李玲 (1695)
- 铵硝营养对枳橙幼苗谷氨酰胺合成酶活性及相关基因表达的影响 孙敏红, 吴炼, 谢深喜 (1703)
- 月季*RhATAF1*基因的克隆及表达特性分析 丁爱琴, 李绍翠, 刘庆超, 王奎玲, 李伟, 刘庆华, 姜新强 (1711)
- 玉米自交系萌发期和苗期抗旱性指标的筛选 郭效龙, 宋希云, 裴玉贺, 郭新梅 (1719)
- 番荔枝果实后熟过程多糖代谢与果实软化和采后裂果的关系 李伟明, 陈晶晶, 段雅婕, 胡会刚, 庞振才, 胡玉林 (1727)
- 苹果糖转运蛋白基因*MdSWEET17*的功能鉴定 杨官显, 许海峰, 张静, 王楠, 房鸿成, 邹琦, 王意程, 姜生辉, 陈学森 (1737)

封面图片: 参见第1681~1686页童虹宇等的论文《珍稀濒危植物金佛山兰的组培快繁》

PLANT PHYSIOLOGY JOURNAL

Vol. 54 No. 11 Nov. 2018

(Formerly PLANT PHYSIOLOGY COMMUNICATIONS, Publication Started in 1951)

CONTENTS

Invited Review

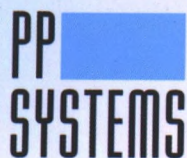
- Rice Protocol eBook* facilitates rice research
..... YUAN Meng, LIU Zheng, WANG Wei-Hong, XIONG Li-Zhong, ZHANG Qi-Fa (1625)

Reviews

- The molecular regulation mechanism of anthocyanin biosynthesis and coloration in plants ZHUANG Wei-Bing,
LIU Tian-Yu, SHU Xiao-Chun, QU Shen-Chun, ZHAI Heng-Hua, WANG Tao, ZHANG Feng-Jiao, WANG Zhong (1630)
- Recent advances in the studies of nutrient transportation, metabolism, utilization and regulation in arbuscular mycorrhizas.....
..... WANG Hao, FANG Yan, LIU Run-Jin, CHEN Ying-Long (1645)
- Research progress in the function of expansins and xyloglucan endotransglucosylase/hydrolase
..... JIA Xin-Lei, HE Bei-Xuan, GUO Dan-Dan, GUO Mei-Li (1659)
- The research progress of melatonin-regulated abiotic stress tolerance in plants
..... WU Lan-Lan, ZHENG Yao-Ting, LI Guo-Yuan, ZOU Li-Ping, CHAN Zhu-Long, QUAN Wen-Li (1669)
- Discussion about the measurements of transpiration KANG Zong-Li, WANG Xian-Ling, FENG Yu-Long (1678)

Original Papers

- Tissue culture and rapid propagation of rare and endangered *Tangtsinia nanchuanica* TONG Hong-Yu, ZHOU Xiao-Xue,
LI Juan, DENG Hong-Ping, WANG Qian, ZHOU Qi-Gui, TANG Shao-Hu, ZHANG Jun, LI Zhong-Juan, CHEN Yu-Han (1681)
- The role of root non-protein thiols in cadmium tolerance of two *Vicia sativa* varieties and the underlying mechanism.....
..... RUI Hai-Yun, ZHANG Xing-Xing, ZHUANG Kai, SHEN Zhen-Guo, ZHANG Fen-Qin (1687)
- Study on physiological characteristics and related gene expression of peanut leaves during recovery after drought
..... LIU Xing, LIAN Si-Man, LONG Hai-Tao, LI Ling (1695)
- Effect of nitrate and ammonium nutrition on glutamine synthetase activities and relative genes for citrange
..... SUN Min-Hong, WU Lian, XIE Shen-Xi (1703)
- Cloning and expression analysis of *RhATAF1* gene in *Rosa hybrida*
..... DING Ai-Qin, LI Shao-Cui, LIU Qing-Chao, WANG Kui-Ling, LI Wei, LIU Qing-Hua, JIANG Xin-Qiang (1711)
- Screening of drought resistance indexes of maize inbred lines.....
..... Guo Xiao-Long, Song Xi-Yun, Pei Yu-He, Guo Xin-Mei (1719)
- Effects of anti-ethylene treatments on polysaccharide metabolism, fruit softening and their relationship with postharvest
cracking of atemoya fruit.....
..... LI Wei-Ming, CHEN Jing-Jing, DUAN Ya-Jie, HU Hui-Gang, PANG Zhen-Cai, HU Yu-Lin (1727)
- Functional identification of a sugar transporter gene *MdSWEET17* in apple..... YANG Guan-Xian, XU Hai-Feng,
ZHANG Jing, WANG Nan, FANG Hong-Cheng, ZOU Qi, WANG Yi-Cheng, JIANG Sheng-Hui, CHEN Xue-Sen (1737)



快速CO₂浓度线性渐变技术

High-Speed CO₂ Ramping Technique

[CIRAS-3便携式光合荧光测定系统]



数百项突破性创新

3th

第三代智能机



新行业标准的领导者

5 分钟内

快速测定
A/Ci响应曲线



汉莎科学仪器有限公司

美国PP SYSTEMS公司中国总部

全国
服务
电话

400-800-1341

万方数据

<http://www.hanshatech.com>
sales@hanshatech.com

汉莎科技微信公众号



汉莎科技微博公众号

