



目次

作物遗传育种·种质资源·分子遗传学

1587-1607 doi: 10.3864/j.issn.0578-1752.2026.08.001

禾本科作物抗倒伏研究进展、瓶颈与应对策略

罗海琴 罗仁林 刘廷辉 郭伟龙 曾子贤 朱博

1608-1621 doi: 10.3864/j.issn.0578-1752.2026.08.002

396份春小麦灌浆期和成熟期抗旱性评价

王小玮 杜佛力 闫红财 郎正东 党志娟 李葆春 汪军成 马小乐 王化俊 张宏 姚立蓉

1622-1638 doi: 10.3864/j.issn.0578-1752.2026.08.003

基于表型性状的热带高粱种质资源遗传多样性分析与创新利用

葛玉彬 贺春贵 王宁 张国琴 张正英 吕鑫

耕作栽培·生理生化·农业信息技术

1639-1652 doi: 10.3864/j.issn.0578-1752.2026.08.004

不同光质对大麦加速生长和光合特性的影响

李志威 王子琪 高亚蒙 高润红 陈雪 杨铸 阚文杰 蹇双灵 严胜男 汤才国 吴丽芳

1653-1671 doi: 10.3864/j.issn.0578-1752.2026.08.005

间作行比对玉米冠层光环境异质性和光合物质生产的影响

陈宣伊 郭星星 张向前 路战远 刘凌悦 罗方 李金龙 张传玲 张志青 车曼青

1672-1685 doi: 10.3864/j.issn.0578-1752.2026.08.006

耕作与增施有机肥对陇东马铃薯-玉米一年两熟制作物产量和水分利用的影响

侯慧芝 尹嘉德 马明生 刘晓伟 柳燕兰 雷康宁

植物保护

1686-1696 doi: 10.3864/j.issn.0578-1752.2026.08.007

玉米叶片次生物质含量及相关基因表达与其对草地贪夜蛾抗性的关系

赵思捷 任家欣 南江磊 王兴云 成卫宁

1697-1711 doi: 10.3864/j.issn.0578-1752.2026.08.008

入侵植物根际溶磷菌的分离鉴定及全基因组测序分析

米春晓 张强 郭佳祺 樊林染 李睿颖 张艳军 张贵龙 王慧 赵建宁

土壤肥料·节水灌溉·农业生态环境

1712-1726 doi: 10.3864/j.issn.0578-1752.2026.08.009

有机肥不同替代比例对土壤多功能性的影响及微生物驱动机制

王彩玉 刘小丽 李文广 杨文平 杨珍平 高志强

1727-1747 doi: 10.3864/j.issn.0578-1752.2026.08.010

中国农业面源污染防治政策的演进、实践逻辑与有效性测量

邹利林

园艺

1748-1759 doi: 10.3864/j.issn.0578-1752.2026.08.011

‘温州蜜柑+桃叶橙’胞质杂种果实增大的生理基础及相关基因发掘

管书萍 李可 解凯东 段耀园 王婷婷 周志虎 伍小萌 郭文武

1760-1774 doi: 10.3864/j.issn.0578-1752.2026.08.012

茶树不同亲本及F₁子代多酚类成分多样性和基因型分析

姚林 彭律文 阳虹 饶佳怡 高浩然 陶芊伊 谢念祠 陈莹玉 李赛君 刘硕谦 黄飞毅

食品科学与工程

1775-1796 doi: 10.3864/j.issn.0578-1752.2026.08.013

紫皮石斛茎、叶、花的成分和功能活性分析及代谢组学研究

岳楠栋 蒋丙婷 聂景贵 方越 唐军荣 乐振声 周莹 李能波 何霞红 张雪春

畜牧·兽医

1797-1808 doi: 10.3864/j.issn.0578-1752.2026.08.014

高效三甲胺脱除菌株的筛选及生长条件优化

刘雨晴 张璐 李建杰 杨海通 宋连杰 李伯森 高玉红 张会文 孙新胜

1809-1824 doi: 10.3864/j.issn.0578-1752.2026.08.015

基于全基因组 SNPs 的湖川山地猪群体结构与选择信号分析

龙熙 柴捷 张亮 潘雨 涂志 张利娟 张力丹 唐乙全 郭宗义 潘红梅

CONTENTS

CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS

1587-1607 doi: 10.3864/j.issn.0578-1752.2026.08.001

Progress, Challenges, and Strategies in Lodging Resistance Research of Gramineous Crops

LUO HaiQin, LUO RenLin, LIU TingHui, GUO WeiLong, ZENG ZiXian, ZHU Bo

1608-1621 doi: 10.3864/j.issn.0578-1752.2026.08.002

Evaluation of Drought Resistance of 396 Spring Wheat Varieties at Grain Filling Stage and Maturity Stage

WANG XiaoWei, DU FoLi, YAN HongCai, LANG ZhengDong, DANG ZhiJuan, LI BaoChun, WANG JunCheng, MA XiaoLe, WANG HuaJun, ZHANG Hong, YAO LiRong

1622-1638 doi: 10.3864/j.issn.0578-1752.2026.08.003

Genetic Diversity Analysis and Innovative Utilization of Introduced Tropical Sorghum Germplasm Resources Based on Phenotypic Traits

GE YuBin, HE ChunGui, WANG Ning, ZHANG GuoQin, ZHANG ZhengYing, LÜ Xin

TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY

1639-1652 doi: 10.3864/j.issn.0578-1752.2026.08.004

Effects of Different Light Quality on Growth Acceleration and Photosynthetic Characteristics of Barley

LI ZhiWei, WANG ZiQi, GAO YaMeng, GAO RunHong, CHEN Xue, YANG Zhu, KAN WenJie, JIAN ShuangLing, YAN ShengNan, TANG CaiGuo, WU LiFang

1653-1671 doi: 10.3864/j.issn.0578-1752.2026.08.005

Impacts of Intercropping Row Patterns on the Heterogeneity of the Light Environment and Photosynthetic Product Production in Maize Canopy

CHEN XuanYi, GUO XingXing, ZHANG XiangQian, LU ZhanYuan, LIU LingYue, LUO Fang, LI JinLong, ZHANG ChuanLing, ZHANG ZhiQing, CHE ManQing

1672-1685 doi: 10.3864/j.issn.0578-1752.2026.08.006

Effects of Tillage and Organic Fertilizer Application on Crop Yield and Water Use in a Potato-Maize Double Cropping System in the Longdong Region

HOU HuiZhi, YIN JiaDe, MA MingSheng, LIU XiaoWei, LIU YanLan, LEI KangNing

PLANT PROTECTION

1686-1696 doi: 10.3864/j.issn.0578-1752.2026.08.007

Relationships Between Secondary Metabolite Contents and Related Gene Expression in Maize Leaves and Their Resistance to *Spodoptera frugiperda*

ZHAO SiJie, REN JiaXin, NAN JiangLei, WANG XingYun, CHENG WeiNing

1697-1711 doi: 10.3864/j.issn.0578-1752.2026.08.008

Isolation, Identification and Whole-Genome Sequencing Analysis of Phosphate-Solubilizing Bacteria in Invasive Plant Rhizosphere

MI ChunXiao, ZHANG Qiang, GUO JiaQi, FAN LinRan, LI RuiYing, ZHANG YanJun, ZHANG GuiLong, WANG Hui, ZHAO JianNing

SOIL & FERTILIZER·WATER-SAVING IRRIGATION·AGROECOLOGY & ENVIRONMENT

1712-1726

doi: 10.3864/j.issn.0578-1752.2026.08.009

Effects of Different Substitution Rates of Organic Fertilizers on Soil Multifunctionality and Its Microbial Driving Mechanisms

WANG CaiYu, LIU XiaoLi, LI WenGuang, YANG WenPing, YANG ZhenPing, GAO ZhiQiang

1727-1747

doi: 10.3864/j.issn.0578-1752.2026.08.010

Evolution, Practical Logic, and Effectiveness Measurement of China's Agricultural Non-Point Source Pollution Control Policies

ZOU LiLin

HORTICULTURE

1748-1759

doi: 10.3864/j.issn.0578-1752.2026.08.011

Physiological Mechanism and Relevant Gene Identification for Fruit Enlargement in Satsuma mandarin+Taoye sweet orange Somatic Cybrid

GUAN ShuPing, LI Ke, XIE KaiDong, DUAN YaoYuan, WANG TingTing, ZHOU ZhiHu, WU XiaoMeng, GUO WenWu

1760-1774

doi: 10.3864/j.issn.0578-1752.2026.08.012

Polyphenolic Diversity and Genotypic Analysis of Tea Plants with Different Parents and Their F₁ Progeny

YAO Lin, PENG LüWen, YANG Hong, RAO JiaYi, GAO HaoRan, TAO QianYi, XIE NianCi, CHEN YingYu, LI SaiJun, LIU ShuoQian, HUANG FeiYi

FOOD SCIENCE AND ENGINEERING

1775-1796

doi: 10.3864/j.issn.0578-1752.2026.08.013

Analysis of Chemical Components, Functional Activities and Metabolomics of Stems, Leaves and Flowers of *Dendrobium devonianum* Paxt.

YUE NanDong, JIANG BingTing, NIE JingGui, FANG Yue, TANG JunRong, YUE ZhenSheng, ZHOU Ying, LI NengBo, HE XiaHong, ZHANG XueChun

ANIMAL SCIENCE·VETERINARY SCIENCE

1797-1808

doi: 10.3864/j.issn.0578-1752.2026.08.014

Isolation of Efficient Trimethylamine-Removing Strains and Optimization of Growth Conditions

LIU YuQing, ZHANG Lu, LI JianJie, YANG HaiTong, SONG LianJie, LI BoSen, GAO YuHong, ZHANG HuiWen, SUN XinSheng

1809-1824

doi: 10.3864/j.issn.0578-1752.2026.08.015

Analysis of Population Structure and Selection Signals of Huchuan Mountain Pigs Based on Whole-Genome SNPs

LONG Xi, CHAI Jie, ZHANG Liang, PAN Yu, TU Zhi, ZHANG LiJuan, ZHANG LiDan, TANG YiTong, GUO ZongYi, PAN HongMei