ISSN 1007-5119 CN 37-1277/S

# CHINESE TOBACCO SCIENCE



中国农业科学院烟草研究所

中国烟草总公司青州烟草研究所

主办

第43卷 Vol.43 第4期 No.4



2022-4

◎中文核心期刊◎中国科技核心期刊◎百种中国杰出学术期刊

◎CSCD收录期刊◎中国精品科技期刊◎英国CAB数据库收录期刊

## 中国烟草科学

## CHINESE TOBACCO SCIENCE

2022年8月 第43卷 第4期

August, 2022, Vol. 43, No.4

#### 目 次 CONTENTS

## 遗传育种 Genetics and Breeding

1 烤烟新品种湘烟7号的选育及其特征特性

胡日生,向世鹏,蒲文宣,陈前锋,李洋洋,余金龙,肖钦之, 符昌武,毛 辉,曾惠宇,侯建林,王凯歌,张惠林,龙大彬

Breeding and Characteristics of New Flue-cured Tobacco Variety Xiangyan 7

HU Risheng, XIANG Shipeng, PU Wenxuan, CHEN Qianfeng, LI Yangyang, YU Jinlong, XIAO Qinzhi, FU Changwu, MAO Hui, ZENG Huiyu, HOU Jianlin, WANG Kaige, ZHANG Huilin, LONG Dabin

### 生理生态 Physiology and Ecology

6 烟草温光特性研究与利用: 基于温光效应的烟草叶片生长模拟模型建立

孙延国,王、永,张、杨,吴开成,王玉华,王大海,石、屹

Investigation and Utilization of Temperature and Light Characteristics of Tobacco: . Establishment of Simulation Model of Tobacco Leaf Growth Based on Temperature and Light Effects

SUN Yanguo, WANG Yong, ZHANG Yang, WU Kaicheng, WANG Yuhua, WANG Dahai, SHI Yi

15 - 聚谷氨酸高产菌株的筛选及改良酸化植烟土壤效果研究

施河丽,彭五星,向修志,舒照鹤,向必坤,王雪松,上官力,尹忠春,祁高富,谭军

Screening of Poly-y-glutamic Acid Producer and its Effect on Improving Acidified Tobacco Planting Soil

SHI Heli, PENG Wuxing, XIANG Xiuzhi, SHU Zhaohe, XIANG Bikun,

WANG Xuesong, SHANG Guanli, YIN Zhongchun, QI Gaofu, TAN Jun

#### 栽培营养 Cultivation, Nutrition and Fertilization

22 增碳减氮对植烟土壤微生物的影响

董鸣豪,武云杰,李钠钾,汪忠坪,王保兴,汪代斌,

马 啸,赵龙杰,叶协锋,李 奇,江厚龙

Effects of Different Measures of Increasing Carbon and Decreasing Nitrogen on Soil Microbes in Tobacco Planting Fields

DONG Minghao, WU Yunjie, LI Najia, WANG Zhongping, WANG Baoxing, WANG Daibin, MA Xiao, ZHAO Longjie, YE Xiefeng, LI Qi, JIANG Houlong

32 烟田掺沙对土壤理化性质与烤烟养分积累的影响

杜杏蓉,白羽祥,王、戈,姜永雷,童文杰,赵正雄,王、娜,邓小鹏

Effects of Sand Mixing in Tobacco Fields on Soil Physicochemical Properties and Nutrient Accumulation of Flue-cured Tobacco

DU Xingrong, BAI Yuxiang, WANG Ge, JIANG Yonglei, TONG Wenjie,

ZHAO Zhengxiong, WANG Na, DENG Xiaopeng

40 化肥减量配施生物炭对植烟土壤氮素淋失的影响

褚继登, 闫慧峰, 王树声, 李彩斌, 张若男, 孙帅帅, 张久权

Effects of Reduced Fertilization and Biochar Application on Nitrogen Leaching from Tobacco-growing Soils

CHU Jideng, YAN Huifeng, WANG Shusheng, LI Caibin, ZHANG Ruonan, SUN Shuaishuai, ZHANG Jiuquan

#### 植物保护 Pests and Diseases

#### 48 福建醇化烟叶仓库空气中真菌多样性研究

陈善义,李菁菁,刘景川,张瑞强,王雨晴,何 伟, 简少平,詹仁锋,方 璟,龙 腾,姜振锟

Diversity of Aerial Fungi in Tobacco Warehouse in Fujian Province

CHEN Shanyi, LI Jingjing, LIU Jingchuan, ZHANG Ruiqiang, WANG Yuqing, HE Wei, JIAN Shaoping, ZHAN Renfeng, FANG Jing, LONG Teng, JIANG Zhenkun

55 橙皮素对烟草青枯病的诱导抗性研究

余 峰,李 洁,黎妍妍,李锡宏,郑 露,彭五星,黄俊斌

Study on the Effect of Hesperetin on the Induction of Tobacco Resistance to Bacterial Wilt

YU Feng, LI Jie, LI Yanyan, LI Xihong, ZHENG Lu, PENG Wuxing, HUANG Junbin

62 遵义烟区杂草调查及海洋杂色曲霉提取物除草效果研究

王 美,王先勃,马斯琦,彭治鑫,刘荣欣,张成省, 万 军,温明霞,吴慧子,祝乾湘,韩小斌,赵栋霖

Weed Investigation in Zunyi Tobacco Areas and Study on Herbicidal Effects of Marine Aspergillus versicolor Extract

WANG Mei, WANG Xianbo, MA Siqi, PENG Zhixin, LIU Rongxin, ZHANG Chengsheng, WAN Jun, WEN Mingxia, WU Huizi, ZHU Qianxiang, HAN Xiaobin, ZHAO Donglin

## 生物技术 Biotechnology

#### 70 普通烟草 Dof 转录因子家族的全基因组鉴定及分析

赵振祥,崔露莹,周东波,赵泽玉,张银霞,盖梦琦,解敏敏,蒲文宣,彭 宇,李志远

Genome-wide Identification and Systemic Analysis of Dof Transcription Factors in Tobacco (Nicotiana tabacum L.)

ZHAO Zhenxiang, CUI Luying, ZHOU Dongbo, ZHAO Zeyu, ZHANG Yinxia, GE Mengqi, XIE Minmin, PU Wenxuan, PENG Yu, LI Zhiyuan

## 现代烟草农业 Modern Tobacco Agriculture

## 79 基于无人机低空遥感影像的烟田杂草精准识别方法研究

卢 涛,胡文英,张 军

Accurate Weed Identification Based on UAV Low-altitude Remote Sensing Images in Tobacco Fields

LU Tao, HU Wenying, ZHANG Jun

87 基于 GF-1/2 影像数据的烟草种植区信息遥感监测

罗贞宝,陆妍如,高知灵,阳国发,贺 琰,毛辉辉

Remote Sensing Monitoring of Tobacco Growing Areas Based on GF-1/2 Image Data

LUO Zhenbao, LU Yanru, GAO Zhiling, YANG Guofa, HE Yan, MAO Huihui

#### 工业利用 Industrial Utilization

#### 96 烟草花蕾酶解基底高效制备美拉德反应中间体研究

孙振春,杨 慧,瞿 方,林叶春,张长云,龙 勇,苏贤坤

Preparation of Amadori Compounds Based on Tobacco Flower Enzymatic Hydrolysates

SUN Zhenchun, YANG Hui, QU Fang, LIN Yechun, ZHANG Changyun, LONG Yong, SU Xiankun

#### 其他 Others

- 31 《烟草科技》2022 年第 7 期目次
- 54 《烟草科技》2022年第8期目次
- 86 《中国烟草学报》2022 年第 4 期目次