

目次

遗传育种·生物技术

- 甘蔗 DELLA 蛋白 GAI 基因的蛋白表达及纯化 方金兰,柴哲,陈保善,张木清(1)
- 经济遗传值在甘蔗选育种应用研究系列(IV)适宜机械化生产的甘蔗亲本及家系评价
..... 徐良年,邓祖湖,黄潮华,林兆里,赵新旺,黄国强(6)
- 云瑞 15 系列不同杂交途径甘蔗创新种质 DTOPSIS 综合评价
..... 桃联安,经艳芬,董立华,安汝东,周清明,边芯,田春艳,俞华先,孙有芳,等(13)

耕作栽培·生理生化

- 甘蔗机械收获后糖损失的影响因素分析
..... 彭娜,姚姿婷,黄江峰,陈保善,张木清(22)
- 锌对玉米光合特性及抗氧化体系的影响 黄伟东,杨克军(27)
- 种植密度与分蘖交互作用对饲用型甜高粱产量的影响
..... 孙学保,石晓瑛(33)
- 甘蔗机械采收杂质对甘蔗加工性能及成本的影响
..... 陈海军,王宝,李一,张菡,赵抒娜(38)

土壤肥料·植物保护

- 中国北方甜菜土壤速效钾丰缺指标与适宜施钾量研究
..... 孙洪仁,张吉萍,吕玉才,郑笑冉,张利霞,宋琼,林柏森(45)
- 甜菜氮肥的合理施用 李文晶,张福顺(50)
- 甘蔗赭色鸟喙象药剂防治效果分析
..... 杨世常,何珂,夏银果,张伟,邵管福,孟霞,蔺乔仙,罗本秋,张永港(57)
- 植保无人机在蔗田化学除草上的应用效果
..... 张小秋,宋修鹏,梁永检,宋奇琦,覃振强,李杨瑞,吴建明(61)
- 甘蔗赤条病及其病原生物学研究进展
..... 储娜,孙会东,周敬如,傅华英,李晓燕,高三基(66)

产业发展·综合利用

- 黑龙江省制糖企业甜菜种植与收购调查分析
..... 刘奇,王婧舂,卢秉福,张文彬,刘晓雪,孙燕杰,朱东顺(71)
- 我国糖料甘蔗叶有效处理与利用
..... 樊保宁,游建华,周秋惠(77)

Sugar Crops of China

2020, Vol. 42, No. 1

Sponsoring Unit: Heilongjiang University

Co-organizer:

Sugarcane Institute of Yunan Academy
of Agricultural Sciences
Sugar Beet Professional Committee of
the Crop Science Society of China

Contents

- Expression and Purification of *GAI* Gene Protein from DELLA Protein in Sugarcane
..... Fang Jinlan, Chai Zhe, Chen Baoshan, Zhang Muqing (1)
- Series Studies on Economic Genetic Value in Sugarcane (IV)
- Screening Parental Clones and Families for Mechanized Production in Sugarcane
..... Xu Liangnian, Deng Zuhu, Huang Chaohua, Lin Zhaoli, Zhao Xinwang, Huang Guoqiang (6)
- Integrated Evaluation of the YR15 Sugarcane Innovative Germplasm with Different Ways of Crossing by DTOPSIS Tao Lian'an, Jing Yanfen, Dong Lihua, An Rudong, Zhou Qingming, Bian Xin, et al (13)
- Major Factors for Controlling Sucrose Losses of Mechanized-harvested Sugarcane
..... Peng Na, Yao Ziting, Huang Jiangfeng, Chen Baoshan, Zhang Muqing (22)
- Effects of Zinc on Photosynthetic Characteristics and Antioxidant System of Maize (*Zea mays* L.)
..... Huang Weidong, Yang Kejun (27)
- Interaction of Different Density and Tillering on Yield of Forage Sweet Sorghum
..... Sun Xuebao, Shi Xiaoying (33)
- Effect of Cane Impurity Using Machinery Harvesting on Processing Performance and Cost of Cane Sugar Production
..... Chen Haijun, Wang Bao, Li Yi, Zhang Han, Zhao Shuna (38)
- Study on Abundance-deficiency Index of Soil Available K and Appropriate Potassium Application Rates for Sugar Beet in the North of China
..... Sun Hongren, Zhang Jiping, Lü Yucai, Zheng Xiaoran, Zhang Lixia, Song Qiong, Lin Baisen (45)
- Discussion on Rational Application of Nitrogen Fertilizer in Sugar Beet
..... Li Wenjing, Zhang Fushun (50)
- Analysis on the Control Effect of Pesticide on *Otidognathus rubriceps* Chevrolat
..... Yang Shichang, He Ke, Xia Yinguo, Zhang Wei, Shao Guanfu, MengXia, et al (57)
- Application Effects of Unmanned Aerial Vehicle on Chemical Weed Control in Sugarcane Field
..... Zhang Xiaoqiu, Song Xiupeng, Liang Yongjian, Song Qiqi, Qin Zhenqiang, et al (61)
- Research Advances of Sugarcane Red Stripe Disease and Its Pathogeny Biology
..... Chu Nan, Sun Huidong, Zhou Jingru, Fu Huaying, Li Xiaoyan, Gao Sanji (66)
- Investigation and Analysis on Sugar Beet Planting and Purchasing of Sugar Enterprises in Heilongjiang Province
..... Liu Qi, Wang Jingfei, Lu Bingfu, Zhang Wenbin, Liu Xiaoxue, Sun Yanjie, Zhu Dongshun (71)
- Effective Treatment and Utilization of Sugarcane Leaves in China
..... Fan Baoning, You Jianhua, Zhou Qiuhui (77)