

中国油料作物学报

CHINESE JOURNAL OF OIL CROP SCIENCES



中国农业科学院油料作物研究所 主办

Sponsored by Oil Crops Research Institute, CAAS

科学出版社 出版

ISSN1007-9084
CN42-1429/S

2022 2

目 次

特色专题·产业经济

- 全球油菜籽贸易格局演变及政策启示 肖 雪,白子明,周慧秋(231)
我国大豆生产消费现状及提升自给率策略 刘璐璐,李建飞,舒 跃,等(242)
中国油料作物收获和储存损失测算及其资源环境影响评估 罗 岜(249)
油菜多功能开发提高了油菜种植收益吗——基于油菜观光视角的实证分析
..... 李俊鹏,张言彩,冯中朝,等(257)
我国油菜产品价格波动的金融化因素分析 魏梦升,孟 维,陈雪婷,等(268)

种质资源·遗传育种

- 通过表型和基因型鉴定筛选适合春油菜区的优异种质 徐 亮,林建荣,杜德志(280)
一个调控大豆根瘤数量的 *GmWUS2* 基因功能研究 韩 露,渠可心,傅永福,等(289)
大豆荚皮厚性状 QTL 定位及候选基因挖掘 王 乔,蒋洪蔚,谢建国,等(298)
大豆生育期组鉴定分组方法的比较研究 贾鸿昌,韩德志,闫洪睿,等(307)
花生高亲和硝酸盐转运蛋白基因家族生物信息学分析 王 娟,石大川,陈皓宁,等(316)
花生种皮颜色智能识别模型的建立与应用 朱树良,赵昆昆,高古腔,等(324)
芝麻细胞色素 P450 超家族的成员鉴定及 *SiCYP703A2* 的功能验证 李田雨,杨远霄,刘红艳,等(331)
蓖麻 *miR396* 基因家族及其靶基因 *GRF* 生物信息学分析及鉴定 邢海彦,唐杰松,于 耸,等(344)
蓖麻 *RcWD40* 家族鉴定与表达分析 苟亚夫,唐杰松,于 耸,等(354)
木通属 21 个种质油脂基本品质评价 杨玉宁,刘红昌,高刚,等(365)

栽培生理·土肥植保

- 外源海藻糖浸种对低温胁迫油菜种子萌发及幼苗生长的影响 张钰钦,杨之帆,李 越,等(376)
花生萌发期对低温胁迫的生理生化响应机制 吕登宇,郝 西,苗利娟,等(385)
花生施钙对红壤旱土酸度及有害金属含量的影响 吴美庆,曾宁波,王 静,等(392)
外源赤霉素对不同磷素水平下胡麻产量形成的调控效应研究 曹 智,高玉红,牛俊义,等(399)
钾硅肥配施对胡麻茎秆碳水化合物及抗倒性的影响 刘亚辉,郭丽琢,高玉红,等(410)
采收时间对油葵种子质量及品质的影响 王姣梅,谭美莲,雷中华,等(424)
大豆花叶病毒病转基因抗性研究进展 高 乐,李志强,李 凯,等(434)
黄曲霉对花生和玉米的侵染研究 荆 丹,岳晓凤,白艺珍,等(442)
纳米抗体特性及其在农产品真菌毒素检测中的应用 蔡 冲,闫洪林,唐晓倩,等(451)
大豆荚饲养点蜂缘蝽实验种群生殖力及其种群趋势分析 胡英露,田鑫月,陈 蕾,等(460)

封面说明:封面为婺源江岭梯田风光。婺源以油菜花为媒,大力发展旅游经济,同时把“油菜花景观”为特色的“乡村游”不断引向深入,通过油菜的多功能利用挖掘其高附加值。游客不仅可以赏花,还能吃到优质的菜薹和健康的菜籽油,进一步拉长了油菜产业链,把油菜花这一“美丽经济”走出了独特的“婺源模式”。封面图片由婺源县农业农村局局长洪文胜提供。

[期刊基本参数] CN-42-1429/S * 1979 * b * A₄ * 236 * zh * p * ¥25.00 * 800 * 25 * 2022-02

本期统稿编辑:王丽芳

CONTENTS

Evolution of global rapeseed trade pattern and its policy enlightenment	XIAO Xue, BAI Zi-ming, ZHOU Hui-qiu (231)
Current situation of soybean production and consumption in China and strategies to improve self-sufficiency rate	LIU Lu-lu, LI Jian-fei, SHU Yue, et al. (242)
On farm harvest and storage losses of oil crops and the impact on resources and environment in China	···LUO Yi (249)
Does the multi-functional development of rape improve the income of rape planting: an empirical analysis from the perspective of rape tourism	···LI Jun-peng, ZHANG Yan-cai, FENG Zhong-chao, et al. (257)
Analysis of financial factors in the price fluctuation of rapeseed products in China based on TVP-SV-VAR model	···WEI Meng-sheng ¹ , MENG Wei, CHEN Xue-ting, et al. (268)
Identification and screening of elite germplasm for spring rapeseed area by genotyping and phenotyping	···XU Liang, LIN Jian-rong, DU De-zhi (280)
A study on the function of <i>GmWUS2</i> gene regulating the number of soybean nodules	···HAN Lu, QU Ke-xin, FU Yong-fu, et al. (289)
QTL mapping and candidate gene mining for pod thickness in soybean	···WANG Qiao, JIANG Hong-wei, XIE Jian-guo, et al. (298)
Comparative study on identification methods of soybean maturity group	···JIA Hong-chang, HAN De-zhi, YAN Hong-rui, et al. (307)
Identification and expression pattern analysis of peanut candidate genes of high-affinity nitrate transporters	···WANG Juan, SHI Da-chuan, CHEN Hao-ning, et al. (316)
Establishment and application of peanut seed coat color intelligent recognition system	···ZHU Shu-liang, ZHAO Kun-kun, GAO Gu-qiang, et al. (324)
Identification of members of cytochrome P450 superfamily and functional characterization of <i>SiCYP703A2</i> gene in sesame	···LI Tian-yu, YANG Yuan-xiao, LIU Hong-yan, et al. (331)
Identification and bioinformatics of <i>RcmiR396</i> gene family and its target gene <i>GRF</i> in castor (<i>Ricinus communis L.</i>)	···XING Hai-yan, TANG Jie-song, YU Song, et al. (344)
Genome-wide identification and expression of RcWD40 family in castor (<i>Ricinus communis L.</i>)	···GOU Ya-fu, TANG Jie-song, YU Song, et al. (354)
Basic quality evaluation of 21 germplasm oils of Akebia	···YANG Yu-ning, LIU Hong-chang, GAO Er-gang, et al. (365)
Effect of exogenous trehalose on seed germination and seedling growth of rapeseed under low temperature	···ZHANG Yu-qin, YANG Zhi-fan, LI Yue, et al. (376)
Physiological and biochemical response mechanism of peanut germination to low temperature stress	···LYU Deng-yu, HAO Xi, MIAO Li-juan, et al. (385)
Effects of calcium fertilizer application on acidity and content of toxic metal elements in upland red soil planted with peanut	···WU Mei-qing, ZENG Ning-bo, WANG Jing, et al. (392)
Effects of exogenous gibberellic acid on yield formation of flax under different phosphorus levels	···CAO Zhi, GAO Yu-hong, NIU Jun-yi, et al. (399)
Effects of combined application of potassium and silicon fertilizer on carbohydrate and lodging resistance of oil flax stem	···LIU Ya-hui, GUO Li-zhuo, GAO Yu-hong, et al. (410)
Effect of harvest time on seed quality in oil sunflower	···WANG Jiao-mei, TAN Mei-lian, LEI Zhong-hua, et al. (424)
Advances in transgenic resistance to soybean mosaic virus disease	···GAO Le, LI Zhi-qiang, LI Kai, et al. (434)
Study on <i>Aspergillus flavus</i> infection in maize and peanut	···JING Dan, YUE Xiao-feng, BAI Yi-zhen, et al. (442)
Nanobody characteristics and its important applications for determination of mycotoxins in agricultural products	···CAI Chong, YAN Hong-lin, TANG Xiao-qian, et al. (451)
Analysis of fertility and population trend of experimental population of <i>Riptortus pedestris</i> fed on soybean pods	···HU Ying-lu, TIAN Xin-yue, CHEN Lei, et al. (460)