

- ◇ 全国农业优秀期刊
- ◇ 河北省优秀期刊
- ◇ 第二届北方期刊奖
- ◇ 中国学术期刊综合评价数据库统计源期刊
- ◇ 中国核心期刊(遴选)数据库收录期刊
- ◇ 中国期刊全文数据库收录期刊
- ◇ 中文科技期刊数据库全文收录期刊
- ◇ 万方数据—数字化期刊群全文上网期刊

ISSN 1008-1631

CN 13-1197/S

# 河北农业科学

JOURNAL OF HEBEI AGRICULTURAL SCIENCES

第24卷 第1期 | 2020  
Vol.24 No.1 | 2020

河北省农林科学院 主办

## 目 次

### 粟类作物专栏 (承办单位: 中国作物学会粟类作物专业委员会 国家谷子改良中心)

河北省主要杂粮种植成本与收益分析 ..... 刘猛, 张新仕, 王桂荣, 李顺国 (1)

### 乡村振兴专栏

抗逆力视域下四川省 76 个贫困县的基本公共服务减贫机制研究 ..... 张维泰, 张海霞 (5)

基于情感治理视角下农村互助养老服务可行性分析 ..... 胡博, 郝文帅, 李平 (10)

基于 SWOT-PEST 矩阵模型的吉林省顺山村庭院经济发展现状分析 ..... 张思源, 夏龙 (14)

河南省西峡县农业产业转型升级与对策 ..... 罗宁, 李世杰 (18)

保定市“太行山农业创新驿站”创建模式与机制分析 ..... 刘富强, 李嫣资 (22)

### 耕作栽培与生理

播期对郑单 958 和登海 605 生长发育及产量的影响

..... 潘胤霖, 党红凯, 刘志良, 张俊鹏, 郑春莲, 曹彩云 (26)

### 园艺·园林

日光温室早春茬甜瓜节水灌溉技术规程 ..... 刘胜尧, 贾宋楠, 范凤翠, 张哲, 杜凤换, 赵楠 (31)

日光温室黄瓜菇渣型复合基质栽培技术规程 ..... 田东良, 康欣娜, 冯兵伟, 靳青 (33)

滨海盐碱地日光温室西红柿栽培技术规程 ..... 陈猛, 苏锦刚, 王丙义, 王海燕 (36)

设施番茄生产质量安全控制技术 ..... 张庆银, 王丹丹, 李燕, 齐连芬, 及华, 师建华 (39)

三系杂交洋葱制种技术规程 ..... 袁瑞江, 安进军, 杨瑾, 薛少红, 袁林, 王丽乔 (43)

春白菜-伏大葱复种栽培技术规程 ..... 王丽乔, 杨瑾, 袁瑞江, 薛少红, 周航, 安进军 (46)

日光温室樱桃萝卜穴盘栽培技术规程 ..... 康欣娜 (49)

### 植物保护

我国甘薯病毒病研究进展 ..... 马居奎, 张成玲, 杨冬静, 谢逸萍, 孙厚俊 (51)

廊坊地区甘薯病害发生情况调查 ..... 齐永悦, 姚国胜, 张恭, 揭琴, 崔绍玉, 石颖, 杜德玉 (57)

河北省紫花苜蓿农药残留状况调查与分析 ..... 李会彬, 王丽宏, 边秀举, 刘廷辉, 张继宗 (61)

### 遗传育种

优质强筋冬小麦石优 20 号品质稳定性分析 ..... 班进福, 李彩华, 郭家宝, 赵彦坤, 郭进考, 刘彦军 (65)

棉花新品种金农 969 的选育及栽培技术要点

..... 王虎, 董章辉, 张艳丽, 赵丽芬, 李增书, 睦书祥, 张全, 胥林华, 朱青竹 (70)

抗病优质棉花新品种冀石 265 的选育及其栽培技术要点

..... 张艳丽, 睦书祥, 董章辉, 王虎, 赵丽芬, 李增书, 朱青竹 (72)

**气象学**

廊坊市近 50 a 四季初日及时间长度的变化 ..... 王亚明, 李丹阳, 石林芝, 张召贤 (75)

**农业经济**

河北省牛肉消费特征及消费者行为调查报告

..... 雷元华, 张松山, 张守勇, 刘志勇, 李海鹏, 孙宝忠, 王欢, 刘璇, 谢鹏 (80)

河北省黑龙港中低平原地区小麦-玉米种植户节水意愿分析

..... 张新仕, 李敏, 王亚楠, 王晓夕, 符家成, 蒲娜娜, 王桂荣 (85)

曲周县甜叶菊生产现状调查与分析 ..... 马冉, 赵成雷, 赵瑜, 张宏彦 (89)

黄淮海流域农户小麦生产化肥节约潜力分析 ..... 蔡海燕, 柳斌辉, 王变银, 侯亮, 张文英, 常璞军 (93)

**农业基础科学与方法**

刺莞萋总黄酮超声提取工艺及抗氧化活性研究

..... 刘芯宇, 周显彤, 赵婷, 温道健, 翟锐锐, 姚瑰玮, 艾朝辉 (97)

桑葚花色苷提取条件的响应面法优化 ..... 高林森, 柴岳平, 温吉更, 李亚丽, 郭焯 (103)

期刊基本参数: CN 13-1197/S\*1992\*b\*A4\*112\*zh\*P\*¥10.00\*3 000\*27\*2020-02

责任编辑: 杜晓东



本刊已许可中国学术期刊(光盘版)电子杂志社在中国知网、万方数据电子出版社在万方数据网、重庆维普资讯有限公司在维普网及其系列数据库产品中,以数字化方式复制、汇编、发行、信息网络传播本刊全文。该社著作权使用费与本刊稿酬一并支付。作者向本刊提交文章发表的行为即视为同意我编辑部上述声明。

## CONTENTS

### Special Column of Millet Crops

- Analysis on Planting Cost and Benefit of Miscellaneous Grain Crops in Hebei Province  
..... LIU Meng, ZHANG Xin-shi, WANG Gui-rong, LI Shun-guo (1)

### Special Column of Rural Revitalization

- Research on the Poverty Reduction Mechanism of Basic Public Services from the Perspective of Resilience  
——Taking 76 Poverty Counties in Sichuan Province as an Example ..... ZHANG Wei-tai, ZHANG Hai-xia (5)
- Feasibility Analysis on Implementing Rural Elderly Mutual Assistance Service from the Perspective of Emotional Governance  
..... HU Bo, HAO Wen-shuai, LI Ping (10)
- Analysis on Development Status of Courtyard Economy in Shunshan County, Jilin Province Based on SWOT-PEST Model  
..... ZHANG Si-yuan, XIA Long (14)
- Transformation and Upgrading and Countermeasures of Agricultural Industry in Xixia County, Henan Province  
..... LUO Ning, LI Shi-jie (18)
- Creation Mode and Mechanism Analysis on Taihang Mountain Agricultural Innovation Station in Baoding  
..... LIU Fu-qiang, LI Yan-zi (22)

### Cultivation and Physiology

- Effects of Sowing Date on Growth Development and Yield of Zhengdan 958 and Denghai 605  
..... PAN Yin-lin, DANG Hong-kai, LIU Zhi-liang, ZHANG Jun-peng, ZHENG Chun-lian, CAO Cai-yun (26)

### Horticulture and Forestry

- Technical Regulation of Water-saving Irrigation for Early Spring Melon in Solar Greenhouse  
..... LIU Sheng-yao, JIA Song-nan, FAN Feng-cui, ZHANG Zhe, DU Feng-huan, ZHAO Nan (31)
- Cultivation Technology Regulation of Cucumber on Mushroom Residue Compound Substrate in Solar Greenhouse  
..... TIAN Dong-liang, KANG Xin-na, FENG Bing-wei, JIN Qing (33)
- Technical Regulation for Tomato Cultivation in Sunlight Greenhouse on Coastal Saline-alkali Land  
..... CHEN Meng, SU Jin-gang, WANG Bing-yi, WANG Hai-yan (36)
- Quality and Safety Control Technology of Facility Tomato Production  
..... ZHANG Qing-yin, WANG Dan-dan, LI Yan, QI Lian-fen, JI Hua, SHI Jian-hua (39)
- Technical Regulation for Three Line Hybrid Onion Seed Production  
..... YUAN Rui-jiang, AN Jin-jun, YANG Jin, XUE Shao-hong, YUAN Lin, WANG Li-qiao (43)
- Cultivation Technical Regulation for Multiple-cropping of Spring Chinese Cabbage and Dog days Welsh Onion  
..... WANG Li-qiao, YANG Jin, YUAN Rui-jiang, XUE Shao-hong, ZHOU Hang, AN Jin-jun (46)
- Technical Regulation of Plug Cultivation of Cherry Radish in Solar Greenhouse ..... KANG Xin-na (49)

### Plant Protection

- Research Progress of Sweet Potato Virus Disease in China  
..... MA Ju-kui, ZHANG Cheng-ling, YANG Dong-jing, XIE Yi-ping, SUN Hou-jun (51)

Investigation of Sweet Potato Diseases in Langfang

..... **QI Yong-yue, YAO Guo-sheng, ZHANG Gong, JIE Qin, CUI Shao-yu, SHI Ying, DU De-yu** (57)

Investigation and Analysis of Pesticide Residues in Alfalfa in Hebei Province

..... **LI Hui-bin, WANG Li-hong, BIAN Xiu-ju, LIU Ting-hui, ZHANG Ji-zong** (61)

## **Heredity and Breeding**

Analysis on Quality Stability of Strong Gluten Wheat Shiyou No.20

..... **BAN Jin-fu, LI Cai-hua, GUO Jia-bao, ZHAO Yan-kun, GUO Jin-kao, LIU Yan-jun** (65)

Breeding of a New Cotton Variety Jinnong 969 and Cultivation Techniques

..... **WANG Hu, DONG Zhang-hui, ZHANG Yan-li, ZHAO Li-fen, LI Zeng-shu,  
SUI Shu-xiang, ZHANG Quan, XU Lin-hua, ZHU Qing-zhu** (70)

Breeding and Cultivation Techniques of a New Cotton Variety Jishi 265 with Disease-resistance and Good Quality

..... **ZHANG Yan-li, SUI Shu-xiang, DONG Zhang-hui, WANG Hu, ZHAO Li-fen,  
LI Zeng-shu, ZHU Qing-zhu** (72)

## **Meteorology**

Variation Characteristics of Beginning Day and Length of Four Seasons in Langfang City in Recent 50 Years

..... **WANG Ya-ming, LI Dan-yang, SHI Lin-zhi, ZHANG Zhao-xian** (75)

## **Agricultural Economy**

Investigation Report on Beef Consumption Characteristics and Consumers' Behaviors in Hebei Province

..... **LEI Yuan-hua, ZHANG Song-shan, ZHANG Shou-yong, LIU Zhi-yong, LI Hai-peng,  
SUN Bao-zhong, WANG Huan, LIU Xuan, XIE Peng** (80)

Analysis of Farmers' Willingness to Save Water in Wheat and Maize Production in Heilonggang Middle and Low Plain

Area of Hebei Province ..... **ZHANG Xin-shi, LI Min, WANG Ya-nan, WANG Xiao-xi, FU Jia-cheng,  
PU Na-na, WANG Gui-rong** (85)

Investigation and Analysis of *Stevia rebaudiana* Production Status in Quzhou County

..... **MA Ran, ZHAO Cheng-lei, ZHAO Yu, ZHANG Hong-yan** (89)

Analysis of Fertilizer Saving Potential in Wheat Production in Huang-Huai-Hai Basin

..... **CAI Hai-yan, LIU Bin-hui, WANG Bian-yin, HOU Liang, ZHANG Wen-ying, CHANG Ying-jun** (93)

## **Agricultural Basic Science and Method**

Study on Extraction Technology and Antioxidant Activity of Total Flavonoids from *Eryngium foetidum* L.

..... **LIU Xin-yu, ZHOU Yu-tong, ZHAO Ting, WEN Dao-jian, ZHAI Rui-rui,  
YAO Gui-wei, AI Zhao-hui** (97)

Extraction Conditions of Anthocyanins from Mulberry by Response Surface Method

..... **GAO Lin-sen, CHAI Yue-ping, WEN Ji-geng, LI Ya-li, GUO Ye** (103)