

# 安徽农业大学学报

第 46 卷第 4 期 (总第 170 期) 2019 年 7 月

## 目 次

### 茶与食品科学

茶树越冬芽萌展期碳氮代谢动态及相关基因分析

.....吴 琼, 刘丹丹, 阮 旭, 沈季雪, 徐奕鼎, 王文杰, 张正竹, 夏恩华 (559)

差异程度检验法在眉茶审评中的应用.....王辉强, 汪小谷, 戴前颖 (564)

淀粉凝胶冷藏过程中水分分布、流变性、热焓值和晶体结构的变化

.....陶雨辰, 丁燕燕, 何李晔紫, 申明玉, 杨丽萍, 曹 川, 周裔彬 (570)

芹菜粉对面团性质及面包品质的影响.....徐 燕, 张 敏, 晁慧梅, 王乃富, 汪名春, 周裔彬 (576)

菜籽油脂质成分分析及甲酯化研究.....仇宏图, 李光春, 吴明根, 张 华 (583)

高粱蛋白的碱法提取工艺及营养价值评价.....李浩丽, 尹方平, 孙旭阳, 汤晓智 (589)

响应面法优化超声波提取滁菊水溶性多糖工艺及其红外光谱分析

.....于士军, 王 睿, 祁婉玲, 张莹莹, 盛 琪, 杜亚男, 马若兰 (595)

### 动物科学与动物医学

草鱼源致病性维氏气单胞菌的鉴定及其黏附特性分析.....李瑾年, 马彤彤, 房 慧, 韩雨希, 刘心媛 (603)

生境变化对升金湖越冬水鸟群落时空动态的影响.....宋昀微, 周立志 (610)

滑鼠蛇出生至 50 日龄身体大小和免疫功能的变化

.....张志强, 陈可为, 彭兵龙, 张昊滨, 杨会会, 刘溯源, 王锡飞, 姚 利, 徐小良 (618)

长江安庆新洲水域浮游动物群落结构特征及其与环境因子的关系

.....代 培, 王银平, 匡 箴, 蔺丹清, 杨彦平, 刘思磊, 刘 凯 (623)

### 林学

黄藤藤笋形态发育过程中解剖结构的动态变化.....汪佑宏, 刘杏娥, 江泽慧, 费本华, 田根林 (632)

淡竹花期不同类型叶片的生理指标变化.....万雅雯, 徐 强, 李 芳, 丁雨龙, 林树燕 (636)

不同地被竹光响应曲线拟合及光合特性.....雷 刚, 漆良华 (642)

大果紫檀荧光组分提取分离方法的研究.....朱续娜, 王宇寒, 张耀丽, 吴 优, 殷嘉昊 (649)

北缘油茶对不同海拔生境的生理响应.....吴 炜, 高小明, 胡娟娟, 余云云, 束庆龙 (655)

不同氮素形态对油茶幼苗生长及氮素吸收的影响.....陈 铭, 袁 军, 渠心静, 李 俊 (660)

### 资源与环境

繁殖体数量对外来 *Ralstonia solanacearum* 在红壤中入侵潜力的影响

.....马 超, 庄睿花, 王时聪, 许 邨, 柴如山, 屠人凤, 朱 林, 李道林, 郜红建 (665)

安徽省湿地生态保护红线划分的研究.....卢一梦, 周立志 (671)

基于 Penman-Monteith 的江南丘陵地区地表参考蒸散量和水分盈亏量特征分析

.....刘 燕, 刘友存, 陈 明, 边晓辉, 丁倩倩 (680)

徐州市 GF-1 卫星气溶胶光学厚度反演与空间特征分析.....薛兴盛, 郑 硕, 白 杨, 吴艳兰 (689)

醋酸预处理对牛粪与水稻秸秆混合厌氧发酵特性的影响.....杨 雪, 邹书珍, 唐 贇, 余小丽 (697)

## 生物学

不同养分条件下密度对空心莲子草生长和光合特性的影响...李 珂, 陈 浩, 张海杰, 王 彤, 刘 建 (706)

## 园艺

不同冻结和解冻方法对金针菜品质及膜脂过氧化的影响.....代瑞娟, 李志强, 朱月林 (713)

## 工程技术

基于量子点的荧光分析试纸用于  $\text{Cu}^{2+}$  的现场可视化检测.....宋春霞, 夏东雪, 李鲲鹏, 肖雨馨, 杨继和 (718)

4LL-1.5Y 型履带式油菜联合收获机割台振动分析.....马丽娜, 魏俊逸, 黄小毛, 宗望远, 詹广超 (723)

耕整机械土壤减粘脱附技术研究现状与展望.....郑 侃 (728)

基于改进 BP 神经网络的多分辨率遥感图像分类及对比分析.....戚王月, 胡宏祥, 夏 萍, 周 婷 (737)

基于物联网技术的仓储香蕉成熟度智能监测与预警系统设计.....张竞超, 云利军, 王一博, 王 坤 (745)

期刊基本参数: CN34—1162/S\*1957\*b\*A4\*192\*zh\*P\*¥15.00\*1000\*29\*2019-07

# JOURNAL OF ANHUI AGRICULTURAL UNIVERSITY

Vol.46 No.4 Jul. 2019 Sum No.170

## Contents

### Tea and Food Science

- Analysis of dynamic changes of carbon and nitrogen metabolism and related gene expression in overwintering axillary bud during germination period of tea plant(*Camellia sinensis*)  
.....WU Qiong, LIU Dandan, RUAN Xu, SHEN Jixue, XU Yiding, WANG Wenjie, ZHANG Zhengzhu, XIA Enhua (559)
- Application of difference degree test in the sensory evaluation of mee tea.....WANG Huiqiang, WANG Xiaogu, DAI Qianying (564)
- Changes in water distribution, rheology, thermal enthalpy and crystal structure during starch gel freezing  
.....TAO Yuchen, DING Yanyan, HE Liyezi, SHEN Mingyu, YANG Liping, CAO Chuan, ZHOU Yibin (570)
- Effect of celery powder on the dough property and bread quality  
.....XU Yan, ZHANG Min, CHAO Huimei, WANG Naifu, WANG Mingchun, ZHOU Yibin (576)
- The lipids component analysis and methyl esterification of rapeseed oil  
.....QIU Hongtu, LI Guangchun, WU Minggen, ZHANG Hua (583)
- Extraction process of sorghum protein by alkaline method and the nutritional value evaluation  
.....LI Haoli, YIN Fangping, SUN Xuyang, TANG Xiaozhi (589)
- Optimization of ultrasound extraction of water-soluble polysaccharides from *Chrysanthemum morifolium* (Ramat) cv. Chuju by response surface methodology and analysis of FTIR  
.....YU Shijun, WANG Rui, QI Wanling, ZHANG Yingying, SHENG Qi, DU Yanan, MA Ruolan (595)

### Animal Science and Animal Medicine

- Identification of pathogenic *Aeromonas veronii* isolated from grass carps (*Ctenopharyngodon idella*) and analysis of its adhesion characteristics.....LI Jinnian, MA Tongtong, FANG Hui, HAN Yuxi, LIU Xinyuan (603)
- Effects of habitat changes on spatio-temporal pattern of the wintering waterbird community at Shengjin Lake  
.....SONG Yunwei, ZHOU Lizhi (610)
- Variations of body size and immune functions in the oriental rat-snake (*Ptyas mucocous*) from birth to 50 days of postembryonal period  
.....ZHANG Zhiqiang, CHEN Kewei, PENG Binglong, ZHANG Haobin, YANG Huihui, LIU Suyuan, WANG Xifei, YAO Li, XU Xiaoliang (618)
- Community structure of zooplankton and its relation with environmental factors in Xinzhou water, Anqing section of Yangtze River  
.....DAI Pei, WANG Yinping, KUANG Zheng, LIN Danqing, YANG Yanping, LIU Silei, LIU Kai (623)

### Forestry

- Dynamic change of anatomical structure of rattan shoots of *Daemonorops margaritae* at the developmental stage  
.....WANG Youhong, LIU Xing'e, JIANG Zehui, FEI Benhua, TIAN Genlin (632)
- Physiological changes of different types of leaves of *Phyllostachys glauca* McClure during flowering periods  
.....WAN Yawen, XU Qiang, LI Fang, DING Yulong, LIN Shuyan (636)
- Photosynthesis-light response curve fitting and photosynthetic characteristics comparison of different ornamental dwarf bamboo resources.....LEI Gang, QI Lianghua (642)
- Study on extraction and separation method for fluorescent composition of *Pterocarpus macrocarpus* Kurz  
.....ZHU Xuna, WANG Yuhan, ZHANG Yaoli, WU You, YIN Jiahao (649)
- Physiological responses of northern *Camellia oleifera* to the habitats in different altitudes  
.....WU Wei, GAO Xiaoming, HU Juanjuan, YU Yunyun, SHU Qinglong (655)

Effects of different nitrogen forms on seedling growth and nitrogen uptake of *Camellia oleifera*

.....CHEN Ming, YUAN Jun, QU Xinjing, LI Jun (660)

## Resources and Environment

Effect of propagule pressure of non-indigenous *Ralstonia solanacearum* on its invasion potential in soil

...MA Chao, ZHUANG Ruihua, WANG Shicong, XU Bei, CHAI Rushan, TU Renfeng, ZHU Lin, LI Daolin, GAO Hongjian (665)

Study on the red line of wetland conservation in Anhui Province.....LU Yimeng, ZHOU Lizhi (671)

Analysis on the variation characteristics of surface water in the Jiangnan Hills based on the Penman-Monteith method

.....LIU Yan, LIU Youcun, CHEN Ming, BIAN Xiaohui, DING Qianqian (680)

Aerosol optical depth retrieval and spatial characteristics analysis of GF-1 satellite in Xuzhou

.....XUE Xingsheng, ZHENG Shuo, BAI Yang, WU Yanlan (689)

Effect of acetic acid pretreatment on anaerobic fermentation characteristics of mixed cow dung and rice straw

.....YANG Xue, ZOU Shuzhen, TANG Yun, YU Xiaoli (697)

## Biology

Effects of planting density on the growth and photosynthesis of *Alternanthera philoxeroides* at different nutrient conditions

.....LI Ke, CHEN Hao, ZHANG Haijie, WANG Tong, LIU Jian (706)

## Horticulture

Effects of freezing and thawing methods on quality and membrane lipid peroxidation of daylily flowers

.....DAI Ruijuan, LI Zhiqiang, ZHU Yuelin (713)

## Engineering and Technology

On-site and visual copper(II) test paper based on fluorescence quantum dots

.....SONG Chunxia, XIA Dongxue, LI Kunpeng, XIAO Yuxin, YANG Jihe (718)

Vibration analysis of cutting table of 4LL-1.5Y crawler rape combine harvester

.....MA Lina, WEI Junyi, HUANG Xiaomao, ZONG Wangyuan, ZHAN Guangchao (723)

Research status and prospect of soil anti-adhesion technology for tillage equipment.....ZHENG Kan (728)

Multi-resolution remote sensing images classification and comparison analysis based on improved BP neural network

.....QI Wangyue, HU Hongxiang, XIA Ping, ZHOU Ting (737)

Warehousing tobacco leaf mildew intelligent monitoring and early warning system

.....ZHANG Jingchao, YUN LJjun, WANG Yibo, WANG Kun (745)