



植物营养与肥料学报

Zhiwu Yingyang Yu Feiliao Xuebao

第 23 卷 第 5 期

目 次

- 1135 黄土高原旱地小麦产量差异与产量构成及氮磷钾吸收利用的关系 马小龙 王朝辉 曹寒冰 余旭 何红霞 包明 宋庆 刘金山
- 1146 西北旱作农田不同耕作模式对土壤性状及小麦产量的影响 侯贤清 李荣 贾志宽 韩清芳
- 1158 施肥和地膜覆盖对黄土旱塬土壤理化性质和冬小麦产量的影响 付威 樊军 胡雨彤 赵晶 郝明德
- 1168 长期施用有机肥增加黄壤稻田土壤微生物量碳氮 郭振 王小利 徐虎 段建军 张雅蓉 李渝 蒋天明
- 1175 长期不同施肥下南方黄泥田有效磷对磷盈亏的响应特征 林诚 王飞 李清华 何春梅 张辉
- 1184 潮土小麦和玉米 Olsen-P 农学阈值及其差异分析 郭斗斗 黄绍敏 张水清 张珂珂 宋晓
- 1191 陕西省苹果主产区土壤有机质、氮磷钾养分含量与分布特征 郑朝霞 王颖 石磊 巩庆利 郑伟 赵志远 翟丙年
- 1199 利用 ^{15}N 示踪研究不同肥力土壤棉花氮肥减施的产量与环境效应 李鹏程 郑苍松 孙森 刘绍东 张思平 王国平 李亚兵 陈静 赵新华 董合林
- 1207 腐植酸尿素对玉米产量及肥料氮去向的影响 张水勤 袁亮 李伟 林治安 李燕婷 胡树文 赵秉强 李军
- 1215 不同施氮水平对南方甜玉米氮素吸收利用的影响 高磊 李余良 李武 俞婷 李高科 李春艳 胡建广
- 1225 干湿交替灌溉与施氮量对水稻叶片光合性状的耦合效应 徐国伟 陆大克 王贺正 陈明灿 李友军
- 1238 水钾一体化对烤烟钾素吸收及生长的影响 丁亚会 肖海强 王大海 管恩森 龙怀玉
- 1249 设施菜田土壤 pH 和初始 C/NO_3^- 对反硝化产物比的影响 曹文超 郭景恒 宋贺 刘骥 陈吉吉 王敬国
- 1258 追施生物炭对稻麦轮作中麦季氨挥发和氮肥利用率的影响 董玉兵 吴震 李博 许欣 熊正琴
- 1268 热解温度对玉米秸秆炭产率及理化特性的影响 叶协锋 周涵君 于晓娜 张晓帆 李志鹏 付仲毅 孟琦
- 1276 钩状木霉 ACCC31649 的 GFP 标记及其对辣椒定殖和促生作用 赵兴丽 陶刚 赵玳琳 卯婷婷 王甘 顾金刚
- 1286 利用小麦秸秆生产木霉分生孢子及其生物有机肥对黄瓜的促生效果 冯程龙 王晓婷 康文晶 孟晓慧 张凤革 冉炜 沈其荣
- 1296 微生物菌肥促进苹果花脸病植株氮素吸收和果实增产 陈建明 葛顺峰 沙建川 丰艳广 姜远茂
- 1303 生物有机肥育苗防控烟草青枯病 刘艳霞 李想 蔡刘体 石俊雄
- 1314 不同硝铵比氮素供应对广藿香生长及药效成分的影响 卢丽兰 杨新全 王彩霞 符式龙 梁振益
- 1326 施氮对镉胁迫下杂交相思树生长及镉吸收分配的影响 谭长强 何琴飞 秦玉燕 申文辉 刘秀 曹艳云
- 1335 红砂根系形态和功能特征对 CO_2 浓度升高和降水量变化的响应 种培芳 姬江丽 李毅 单立山 刘晟彤
- 1345 缺铁胁迫柑橘砧木幼苗的光合特性和叶绿体超微结构 姚宇洁 姜存仓
- 1352 缺锌对玉米根系发育、生长素含量及生长素转运基因表达的影响 周斌 张金尧 乙引 汪洪
- 1359 CRISPR/Cas9 系统构建的水稻 *OsPht* 基因突变体材料可用于养分转运评价 韩娇 王莉 何蕊 李伟 王冰 黄升财 孙永伟 程宪国
- 专题综述
- 1370 植物离子组学研究进展 沙之敏 赵峥 卢琳芳 史超超 曹阳 袁婧 曹林奎
- 研究简报
- 1378 ACC 对不同氮效率油菜生长后期硝态氮再利用的调控机理 余音 卢胜 宋海星 官春云 陈柯豪 张振华
- 1387 底肥分层条施提高冬小麦干物质积累及产量 温樱 王东
- 1394 四种主栽切花菊品种的养分吸收特征 李森 赵平 姜蓉 汤利
- 1402 上海松柏古树生长与土壤肥力因子的关系 汤珖华 潘建萍 邹福生 乐笑玮 傅徽楠 周圣贤

期刊基本参数: CN11-3996/S*1994*b*A4*274*Zh*P*40.00*1000*30*2017-05

JOURNAL OF PLANT NUTRITION AND FERTILIZER

Vol. 23 No. 5

CONTENTS

- 1135 Yield variation of winter wheat and its relation to yield components, NPK uptake and utilization in drylands of the Loess Plateau
MA Xiao-long WANG Zhao-hui CAO Han-bing
SHE Xu HE Hong-xia BAO Ming
SONG Qin-yun LIU Jin-shan
- 1146 Effects of different tillage practices on soil properties and wheat yields in dry farmland of northwest China
HOU Xian-qing LI Rong JIA Zhi-kuan HAN Qing-fang
- 1158 Effects of fertilization and film mulching on soil physical and chemical properties and winter wheat yield on the Loess Plateau
FU Wei FAN Jun HU Yu-tong ZHAO Jing
HAO Ming-de
- 1168 A large number of long-term application of organic fertilizer can effectively increase microbial biomass carbon and nitrogen in yellow paddy soil
GUO Zhen WANG Xiao-li XU Hu DUAN Jian-jun
ZHANG Ya-rong LI Yu JIANG Tai-ming
- 1175 Response characteristics of Olsen-P to P balance in yellow paddy fields of southern China
LIN Cheng WANG Fei LI Qing-hua HE Chun-mei
ZHANG Hui
- 1184 Threshold values of soil Olsen-P for maize and wheat in fluvo-aquic soil
GUO Dou-dou HUANG Shao-min ZHANG Shui-qing
ZHANG Ke-ke SONG Xiao
- 1191 Contents and distribution of soil organic matter and nitrogen, phosphate, potassium in the main apple production regions of Shaanxi Province
ZHENG Zhao-xia WANG Ying SHI Lei GONG Qing-li
ZHENG Wei ZHAO Zhi-yuan ZHAI Bing-nian
- 1199 Using ^{15}N tracing technique to study the yield and environmental effect of decreasing N fertilization on cotton in different fertility fields
LI Peng-cheng ZHENG Cang-song SUN Miao
LIU Shao-dong ZHANG Si-ping WANG Guo-ping
LI Ya-bing CHEN Jing ZHAO Xin-hua DONG He-lin
- 1207 Effects of humic acid urea on maize yield and the fate of fertilizer nitrogen
ZHANG Shui-qin YUAN Liang LI Wei LIN Zhi-an Li
Yan-ting HU Shu-wen ZHAO Bing-qiang LI Jun
- 1215 Effects of nitrogen application on yields and nitrogen use efficiencies of sweet corn in south China
GAO Lei LI Yu-liang LI Wu YU Ting LI Gao-ke
LI Chun-yan HU Jian-guang
- 1225 Coupling effect of wetting and drying alternative irrigation and nitrogen application rate on photosynthetic characteristics of rice leaves
XU Guo-wei LU Da-ke WANG He-zheng
CHEN Ming-can LI You-jun
- 1238 Effect of potassium fertigation on potassium absorption and growth of flue-cured tobacco
DING Ya-hui XIAO Hai-qiang WANG Da-hai
GUAN En-sen LONG Huai-yu
- 1249 Effects of pH and initial labile C/NO_3^- ratio on denitrification in a solar greenhouse vegetable soil
CAO Wen-chao GUO Jing-heng SONG He LIU Su
CHEN Ji-ji WANG Jing-guo
- 1258 Effects of biochar reapplication on ammonia volatilization and nitrogen use efficiency during wheat season in a rice-wheat annual rotation system
DONG Yu-bing WU Zhen LI Bo XU Xin
XIONG Zheng-qin
- 1268 Physiochemical properties and yields of corn-stalk-biochar under different pyrolyzed temperatures
YE Xie-feng ZHOU Han-jun YU Xiao-na
ZHANG Xiao-fan LI Zhi-peng FU Zhong-yi MENG Qi
- 1276 GFP-labeled transformation of *Trichoderma hamatum* ACCC31649 and its promotion on colonization and growth of pepper plants
ZHAO Xing-li TAO Gang ZHAO Dai-lin
MAO Ting-ting WANG Nian GU Jin-gang
- 1286 *Trichoderma* conidia production using wheat straw and growth promoting effect of its bio-organic fertilizer on cucumber
FENG Cheng-long WANG Xiao-ting KANG Wen-jing
MENG Xiao-hui ZHANG Feng-ge RAN Wei
SHEN Qi-rong
- 1296 Microbial fertilizer increase nitrogen uptake and fruit yield of apple trees infected with Baikal disease
CHEN Jian-ming GE Shun-feng SHA Jian-chuan
FENG Yan-guang JIANG Yuan-mao
- 1303 Nursery application of a novel bioorganic fertilizer on controlling tobacco bacterial wilt
LIU Yan-xia LI Xiang CAI Liu-ti SHI Jun-xiong
- 1314 Effects of nitrogen supply with different $\text{NO}_3^-/\text{NH}_4^+$ ratios on growth and medicinal components of *Pogostemon cablin*
LU Li-lan YANG Xin-quan WANG Cai-xia FU Shi-long
LIANG Zhen-yi

- 1326 Effect of nitrogen application on seedling growth and cadmium uptake and distribution in *Acacia mangium* × *Acacia auriculiformis* under cadmium stress TAN Zhang-qiang HE Qin-fei QIN Yu-yan SHEN Wen-hui LIU Xiu CAO Yan-yun
- 1335 Responses of root morphology and functional characteristics of *Reaumuria soongorica* on CO₂ elevation and precipitation variation CHONG Pei-fang JI Jiang-li LI Yi SHAN Li-shan LIU Sheng-tong
- 1345 Photosynthetic characteristics and chloroplast ultrastructure of citrus rootstocks under iron deficiency stress YAO Yu-jie JIANG Cun-cang
- 1352 Effects of zinc deficiency on root growth, endogenous auxin content and key auxin transport genes expressions in maize roots ZHOU Bin ZHANG Jin-yao YI Yin WANG Hong
- 1359 Rice mutant establishment of the mutated phosphate transporter *OsPht* gene by the CRISPR/Cas9 gene editing system for evaluating nutrient translocation HAN Jiao WANG Li HE Rui LI Wei WANG Bing HUANG Sheng-cai SUN Yong-wei CHENG Xian-guo

Comment on special topic

- 1370 Research progress on ionomics of plants ZHANG Li-juan QU Ji-song ZHU Qian-nan WU Tao

Short communications

- 1378 Regulation mechanisms of NO₃⁻ re-utilization by ACC at later growth stages of *Brassica napus* YU Yin LU Sheng SONG Hai-xing GUAN Chun-yun CHEN Ke-hao ZHANG Zhen-hua
- 1387 Basal fertilization in strips at different soil depths to increase dry matter accumulation and yield of winter wheat WEN Ying, WANG Dong
- 1394 Nutrient requirement characteristics of four cut-chrysanthemum cultivars LI Miao ZHAO Ping JIANG Rong TANG Li
- 1402 Relationship between soil fertility factors and growth of old pines and cypress in Shanghai TANG Yao-hua PAN Jian-ping ZOU Fu-sheng LE Xiao-wei FU Hui-nan Zhou Sheng-xian