

中国土壤与肥料

ZHONGGUO TURANG YU FEILIAO

(原土壤肥料)

双月刊

(1964 年创刊)

2011 年第 1 期(总第 231 期)

2011 年 2 月 10 日出版

主办单位 中国农业科学院农业资源与农业
区划研究所

中国植物营养与肥料学会

协办单位 国家化肥质量监督检验测试中心
(北京)

农业部微生物肥料和食用菌菌种
质量监督检验测试中心

主 编 黄鸿翔

副 主 编 王小彬

编辑出版 《中国土壤与肥料》编辑部

电 话 (010)82108656

传 真 (010)82106225

网 址 <http://trfl.chinajournal.net.cn>

<http://trfl.periodicals.net.cn>

电子信箱 trfl@caas.ac.cn

地 址 北京中关村南大街 12 号

邮政编码 100081

印 刷 北京科信印刷有限公司

总发行处 北京市报刊发行局

订 阅 处 全国各地邮局

邮发代号 2-559

订 价 5.00 元

中国标准刊号 ISSN 1673-6257
CN 11-5498/S

广告经营许可证 京海工商广字第 0082 号

目 次

· 专题综述 ·

土壤-植物系统中氮的迁移转化规律及研究展望 刘社平,王激清,戴希尧,等(1)

· 研究报告 ·

长期施肥对薄层黑土酶活性及土壤肥力的影响 焦晓光,隋跃宇,魏 丹(6)

我国南方秸秆还田的培肥、增产效应 ... 杨 帆,李 荣,崔 勇,等(10)

施氮量和栽培密度对超级早稻不同器官氮素积累与转运及其吸收利用率的影响 徐春梅,周昌南,郑根深,等(15)

不同冬小麦品种氮效率及其生理差异的研究 柴彦君,袁家富,熊又升,等(21)

不同施氮水平对番茄产量、品质及土壤剖面硝态氮的影响 谢安坤,李志宏,张云贵,等(26)

不同形态无机磷对两种磷效率小麦根际特征的影响 侯焱焱,展晓莹,刘 璇,等(30)

氮锌配施对玉米干物质积累及产量效应研究 康利允,马政华,李红英,等(34)

喷施锌、硼、锰肥对兰州百合干物质积累分配、产量和氮磷吸收的影响 ... 路 喆,黄 鹏,王玉忠(39)

喷施硫酸锰对紫花苜蓿草产量和品质的影响 马 闯,介晓磊,刘世亮,等(44)

改性沸石对 Zn^{2+} 的吸附特性研究 胡克伟,贾冬艳,颜 丽,等(49)

不同种类有机酸及配施对烤烟生长和叶片非酶促活性氧代谢的影响 ... 胡皓月,许自成,李志刚,等(53)

不同产地的腐植酸对小白菜养分利用的影响 李 冉,封朝晖(59)

光叶紫花苕子在烟田中的腐解及养分释放动态研究 孔 伟,耿明建,储刘专,等(64)

海藻叶面肥对菠菜和不结球白菜产量和品质的影响 周 英,陈振德,王海华,等(69)

菌糠复合基质在番茄育苗上的效果 陈世昌,常介田,张变莉(73)

“三控”施肥技术对水稻经济性状及产量的影响 应国勇,刘 诚,刘 桅,等(76)

接种丛枝菌根真菌对脱毒马铃薯微型薯生长及产量的影响 白灯莎·买买提艾力,张少民,孙良斌,等(80)

· 分析方法 ·

自动电位滴定法测定土壤有机质含量 郝会军,杨俐苹,金继运(83)

熔融制样—X 射线荧光光谱法快速测定复合肥中的磷、钾、钙、镁、锰、铁、铜、钠、锌和铝 任春生,廖海平,鲍惠君,等(88)

· 广告 · 信息 ·

泵吸式进样器(封面),TFC 土壤化肥测定仪(封二),江苏淮安大华生物科技有限公司(72 页),秦皇岛北斗自控(BB 肥)设备有限公司(黑白插页),北京新禾丰农化资料有限公司(封底)

和谐的土肥 奋进的土肥 光辉的未来(彩色插页)

期刊基本参数:CN11-5498/S*1964*b*20*93*zh*p*¥5.00*2011-02

SOIL AND FERTILIZER SCIENCES IN CHINA

Bimonthly

(Started in 1964)

No. 1, 2011 (Tot. No. 231)

Published on Feb. 10, 2011

Sponsored by

Institute of Agricultural Resources and Regional Planning, CAAS

Chinese Society of Plant Nutrition and Fertilizer Science

Assisted in

National Center (Beijing) for Quality Supervision and Test of Chemical Fertilizers

Center for Quality Supervision and Test of Microbial Fertilizers and Mushroom Spawn, Ministry of Agriculture, P. R. China (CMFMS)

Editor in Chief HUANG Hong-xiang

Deputy Editor in Chief WANG Xiao-bin

Published by Editorial Department of Soil and Fertilizer Sciences in China

Tel (010) 82108656

Fax (010) 82106225

URL <http://trfl.chinajournal.net.cn>

<http://trfl.periodicals.net.cn>

E-mail trfl@caas.ac.cn

Address No. 12 South Street, Zhongguancun, Beijing

Postcode 100081

Oversea Distributor

China International Book Trading Corporation

CONTENTS

- Advances and migration and transformation rules of fluorine in soil-vegetation system LIU She-ping, WANG Ji-qing, DAI Xi-yao, et al (1)
- Effect of long-term fertilization on enzyme activities and soil fertility in the black thin-layer soil JIAO Xiao-guang, SUI Yue-yu, WEI Dan (6)
- Effect of straw returning on improving soil fertility and increasing crop yield in Southern China YANG Fan, LI Rong, CUI Yong, et al (10)
- Effects of nitrogen accumulation and translocation in different organs and their absorption and utilization of nitrogen under different nitrogen fertilizer rates and densities of super early rice XU Chun-mei, ZHOU Chang-nan, ZHENG Gen-shen, et al (15)
- Study on differences of nitrogen efficiency and physiologic of different winter wheat varieties CHAI Yan-jun, YUAN Jia-fu, XIONG You-sheng, et al (21)
- Effect of different application of nitrogen on yield and quality of tomato and nitrate in soil profile XIE An-kun, LI Zhi-hong, ZHANG Yun-gui, et al (26)
- Effects of different forms of inorganic P on rhizosphere in different P-efficiency wheat HOU Yan-yan, ZHAN Xiao-ying, LIU Xuan, et al (30)
- Effect of application of nitrogen and zinc fertilizers on dry material accumulation and yield in maize KANG Li-yun, MA Zheng-hua, LI Hong-ying, et al (34)
- Effects of spraying boron, zinc, manganese fertilizer on accumulation and distribution of dry matter, yield and N P asorption of *Lilium davidii* var. *unicolor* LU Zhe, HUANG Peng, WANG Yu-zhong (39)
- Effect of manganese sulfate spurt application on the yield and quality of alfalfa MA Chuang, JIE Xiao-lei, LIU Shi-liang, et al (44)
- Effect of natural zeolite and modified zeolite on adsorption of Zn^{2+} HU Ke-wei, JIA Dong-yan, YAN Li, et al (49)
- Effect of diffent types of organic acids and their combined application on the growth and leaf non-enzymatic active oxygen metabolism of flue-cured tobacco HU Hao-yue, XU Zi-cheng, LI Zhi-gang, et al (53)
- Effects of humic acid from different areas on nutrient utilization of Chinese cabbage LI Ran, FENG Zhao-hui (59)
- Dynamics of the organic matter decomposition and nutrient release for smooth vetch (*Vicia villosa* roth var.) in tobacco fields KONG Wei, GENG Ming-jian, CHU Liu-zhuan, et al (64)
- Effects of seaweed foliar fertilizers on yield and quality of spinach and pakchoi ZHOU Ying, CHEN Zhen-de, WANG Hai-hua, et al (69)
- The effects of mushroom residue substrate for tomato seedling CHEN Shi-chang, CHANG Jie-tian, ZHANG Bian-li (73)
- Three control fertilization on rice yield and economic characters YING Guo-yong, LIU Cheng, LIU Wei, et al (76)
- Effect of inoculation of arbuscular mycorrhizal fungi on growth and yield of micro propagated potato BAI Deng-sha, ZHANG Shao-min, SUN Liang-bin (80)
- Determination of soil organic mater by automatically potentiometric titration method HAO Hui-jun, YANG Li-ping, JIN Ji-yun (83)
- Determination of P, K, Ca, Mg, Mn, Fe, Cu, Na, Zn and Al in compound fertilizers by X-ray fluorescence spectrometry with fused glass disc sample preparation REN Chun-sheng, LIAO Hai-ping, BAO Hui-jun, et al (88)