



ISSN 1005-9369
CN 23-1391/S

东北农业大学学报

JOURNAL OF NORTHEAST AGRICULTURAL UNIVERSITY

第46卷 第8期
Vol.46 No.8

ISSN 1005-9369



9 771005 936151

2015.8

东北农业大学学报

月刊 1957年创刊

第46卷 第8期 总246期 2015年8月

目 次

研究报告

施氮量对盐胁迫下寒地粳稻籽粒淀粉积累及相关酶活性的影响

.....赵宏伟, 吕艳超, 许 晶, 夏 楠, 贾 琰, 邹德堂 (1)

粉红粘帚菌几丁质酶基因 cDNA 克隆及表达

.....王傲雪, 于 秋, 王沛文, 王婷婷, 杨俊颖, 王宴逗, 伍 森 (9)

固体脂质纳米粒作为核酸疫苗载体的效应研究

.....崔正云, 刘 彬, 姜成哲, 李金辉, 李云峰 (15)

三株聚丙烯酰胺降解菌联合降解特性研究

.....李淑芹, 孙 靖, 韦 微, 包 龙, 董士嘉 (21)

牛粪堆肥中氮素转化关键菌群的动态变化影响.....许修宏, 赵晓雨, 李洪涛, 徐 杰 (26)

基于无害化程度评价的沼渣混合物料堆肥配比优化

.....赵 越, 宋彩虹, 李鸣晓, 席北斗, 魏自民, 齐 辉, 刘东明 (32)

生物有机肥对盐渍土改良效果评价

.....谷思玉, 聂艳龙, 何 鑫, 汪 睿, 耿泽铭, 王佳佳, 魏自民 (38)

两种新型除草剂安全剂合成工艺研究

.....付 蕾, 周媛媛, 张春晶, 闫学科, 张 磊 (44)

不同物种成熟精子 Fas 蛋白的表达研究

.....周佳勃, 李有为, 孙铭菊, 朱 江, 焦光忠, 董海波, 谭景和 (51)

重组鸡β-防御素 2 蛋白的表达与生物学活性鉴定

.....马得莹, 张婷婷, 徐 杨, 高梦莹, 王秋玲, 徐倩倩, 韩宗玺, 刘胜旺 (56)

FGF-21 对 D-gal 诱导的小鼠肝脏氧化应激及凋亡保护机制研究

.....任桂萍, 衣春霖, 杨永碧, 于引航, 尹杰超, 李德山 (61)

发酵罐培养重组乳酸乳球菌表达犬γ-干扰素条件研究

.....姜艳平, 吴 煜, 张 希, 姜新鹏, 唐丽杰, 乔薪瑗, 崔 文, 李一经 (70)

基于熵权与云模型的黑龙江省水资源承载力评价

.....成 琨, 付 强, 任永泰, 郭 佳, 鲁雪萍 (75)

基于近红外光谱技术的树莓果粉品质评价.....赵立军, 刘秉新, 郑先哲 (81)

鲜猪肉系水力与应力松弛特性相关性的试验研究

.....刘立意, 刘 影, 刘冬梅, 王希彪, 张宝鹏, 王 坤 (88)

异步电机重载软起动模糊离散变频控制.....周广钰, 周 封, 朱 瑞 (94)

研究进展

国外转基因大豆种植与育种研究进展.....崔宁波, 宋秀娟 (103)

[期刊基本参数]: CN23-1391/S * 1957 * m * A4 * 108 * zh * P * ¥ 20.00 * 1 000 * 17 * 2015-08

DONGBEI NONGYE DAXUE XUEBAO
JOURNAL OF NORTHEAST AGRICULTURAL UNIVERSITY

Monthly Vol. 46 No. 8 (Cumulated No. 246) August 2015

CONTENTS

Research Report

Effect of nitrogen application on starch accumulation in grain and relative enzyme

activities of cold-region japonica rice under salt stress.....ZHAO Hongwei, et al. (1)

Cloning and expression of the cDNA of chitinase gene from *Clonostachys rosea*.....WANG Aoxue, et al. (9)

Transfection efficiency study on LDL like cationic SLN as carrier of DNA

vaccine delivery.....CUI Zhengyun, et al. (15)

Study on the characteristics of combination degradation by three PAM

degrading-bacteria.....LI Shuqin, et al. (21)

Dynamic variation of key nitrogen transformation microflora in cow

manure compost.....XU Xiuhong, et al. (26)

Optimization of material proportion of biogas residue mixed with livestock

manure co-composting based on evaluation of degree of harmlessness.....ZHAO Yue, et al. (32)

Evaluate effect of different ratio of bio-organic fertilizer on saline-

alkali soil improvement.....GU Siyu, et al. (40)

Study on synthesis process of the two new herbicide safeners.....FU Lei, et al. (44)

Expression of Fas protein in mature sperm of different species.....ZHOU Jiabo, et al. (51)

Recombination expression and biological analysis of chicken β -defensin 2.....MA Deying, et al. (56)

Study on protection mechanisms of FGF-21 on mouse liver oxidative stress and
apoptosis induced by D-gal.....REN Guiping, et al. (61)

Optimization of the fermentation condition of expressing the γ -interferon in
recombinant *Lactococcus lactis*.....JIANG Yanping, et al. (70)

Evaluation of bearing capacity of water resources in Heilongjiang Province based on
entropy weight and cloud.....CHENG Kun, et al. (75)

Quality evaluation of raspberry fruit powder based on near infrared
spectrum technology.....ZHAO Lijun, et al. (81)

Study on relationship between stress relaxation and the water holding
capacity of fresh pork.....LIU Liyi, et al. (88)

Fuzzy variable trigger angle of frequency control about heavy-load soft
starting of induction motor.....ZHOU Guangyu, et al. (94)

Research Progress

Research progress on development and planting of foreign genetically modified
soybean.....CUI Ningbo, et al. (103)

[Serial parameters]: CN23-1391/S * 1957 * m * A4 * 108 * zh * P * ¥ 20.00 * 1 000 * 17 * 2015-08

总 编:袁晓东

责任编辑:姜 爽 尤 凯 洪 瑞 苏静艳 陈 瑶

本刊为

- ★ 中文核心期刊
- ★ 中国科技核心期刊
- ★ 中国农业核心期刊
- ★ 中国核心学术期刊(RCCSE)
- ★ 《中国科学引文数据库》(CSCD)收录
- ★ 《中国科技论文统计源期刊》(CJCR)收录
- ★ 《中国期刊全文数据库》(CJFD)收录
- ★ 美国《化学文摘》(CA)收录
- ★ 波兰《哥白尼索引》(IC)收录
- ★ 英国《国际农业与生物技术文摘》(CABI)收录

东北农业大学学报

DONGBEI NONGYE DAXUE XUEBAO

月刊 1957年创刊

第46卷 第8期 总246期

JOURNAL OF NORTHEAST

AGRICULTURAL UNIVERSITY

Monthly, Started in 1957

Vol.46 No.8 Total No.246

主管主办:东北农业大学

主 编:包 军

编辑出版:东北农业大学学报编辑部

哈尔滨市木材街59号 150030

电话:0451-55190553

网址:<http://publish.neau.edu.cn>

邮箱:xuebao@neau.edu.cn

印 刷:哈尔滨报达印务股份有限公司

发 行:哈尔滨市邮局

订 阅:全国各地邮局

出版日期:2015年8月25日

Sponsored by Northeast Agricultural University (NEAU)

Chief editor: BAO Jun

Edited & Published by Editorial Dept. of Journal of NEAU

No.59 Mucai Street, Harbin, China, 150030

Tel: 0451-55190553

<http://publish.neau.edu.cn>

E-mail: xuebao@neau.edu.cn

Printed by Harbin Pota Printing Co., Ltd.

Distributed by Harbin Post Office

Subscription by All Local Post Offices in China

Publishing Date: August 25, 2015

ISSN 1005-9369

CN23-1391/S

邮发代号: 14-47

定价: 20.00元/册