

东北农业大学学报

月刊 1957年创刊

第42卷 第5期 总195期 2011年5月

食品科学·农业工程与技术·资源与环境辑

目次

专论与综述

物联网在农业中的应用·····张长利, 沈维政 (1)

研究报告

超声辅助琥珀酰化改性大豆蛋白研究·····王喜波, 迟玉杰, 胥伟 (6)

外源茉莉酸甲酯(MeJA)对大豆异黄酮合成途径的影响·····马君兰, 赵越 (14)

大豆7S、11S球蛋白亚基缺失突变体豆腐加工特性的鉴定

·····刁桂珠, 潘俊波, 姜自芹, 葛玉君, 郑天慧, 曾蕊, 吴帅, 宋波, 拓云, 刘珊珊 (19)

利用短小芽孢杆菌发酵马铃薯渣生产单细胞蛋白饲料的研究

·····张向东, 杨谦, 余佳, 赵磊, 范金霞 (26)

试管扩散法检测牛乳中 β -酰胺类抗生素残留研究

·····吴瑕, 邵辉, 王鑫, 张兰威 (31)

青春双歧杆菌凝固型酸奶研制及选择性培养基比较

·····刘韩, 关宏, 杨文钦, 张琪, 韩明宇, 刘吉成 (36)

应用近红外光谱技术快速检测黑加仑浆果的主要营养成分·····金长江, 郑先哲 (41)

反胶束萃取植物血凝素前萃工艺研究·····刘艳艳, 秦光, 李继昌 (48)

基于FLUENT割前脱粒联收机惯性分离室内流场模拟·····严森泉, 蒋恩臣 (54)

基于WITNESS的农场收获机器系统配备应用仿真研究·····马力, 王帅, 王英, 乔金友 (58)

接种量对牛粪分离液厌氧发酵特性影响·····关正军, 李文哲, 郑国香, 毕兰平 (63)

偏置分流叶片离心泵内流动机理及仿真分析.....李国威,王 岩,吕秀丽,李文华 (68)

聚类分析在李品种谱系分析中的应用.....焦 扬,葛慧玲 (72)

基于机器视觉的禽蛋图像分割方法研究.....贾 超,郁志宏,王 亮,武智慧,温 鹿 (77)

SPR 生物传感器连续取样和检测装置研制.....初国超,郑先哲,张文浩,丁凝冶,刘成海 (83)

不同改良措施对盐渍化土盐分和酶活性的影响.....王天平,周连仁 (91)

不同灌水方式下干旱区盐碱地土壤水盐运移特征分析

.....郑晓辉,巴特尔·巴克,李 宏,贾伟华,赵海珍 (95)

双孢蘑菇营养菌丝老化现象的形态学研究.....王 博,许修宏,袁 立 (99)

哈尔滨市郊八月不同下垫面人体舒适度指数日变化特征.....玄明君,王鼎震,孙彦坤 (104)

基于 ARCGIS 方法的双鸭山市土地利用生态功能分区.....孙彬淳,丁兆连,王大庆,王宏燕 (109)

集贤县农田土壤重金属空间分布特征

.....牛佳田,汪群慧,郭钦奎,于 泳,李 奕,黄昌盛,李发生 (113)

秸秆还田方式对春播期土壤温度的影响

.....常晓慧,孔德刚,井上光弘,刘立意,张影微,苏锦涛 (117)

兴凯湖流域农业非点源污染关键源区识别与防治对策研究

.....高凤杰,雷国平,宋 戈,周 军,杜国明 (121)

研究简报

几种益生菌发酵谷物饮料制作工艺研究.....骆超超,卢志勇,于 微,王青竹,高学军 (127)

新型三氮烯试剂的合成及其与痕量 Pb(Ⅱ) 的显色反应研究

.....侯 林,姜洪波,李应辉,张慧云,郎德龙 (130)

研究进展

土壤重金属全量监测方法研究进展.....吴健生,宋 静,郑茂坤,谢 婧,李俊杰,黄秀兰 (133)

基于 LCC 理论的污水处理工程经济性研究.....李晨洋,吕福财,李晓丹 (140)

[期刊基本参数]: CN23-1391/S * 1957 * m * A4 * 144 * zh * P * ￥8.00 * 1 000 * 28 * 2011-05-25

DONGBEI NONGYE DAXUE XUEBAO
JOURNAL OF NORTHEAST AGRICULTURAL UNIVERSITY

Monthly Vol. 42 No. 5 (Cumulated No. 195) May 2011

Food Science • Agricultural Engineering and Technology • Resources and Environment Issue

CONTENTS

Monograph and Review

Application of internet of things in agriculture·····ZHANG Changli, et al. (1)

Research Report

Study on soybean proteins modified by ultrasound-assisted succinylation·····WANG Xibo, et al. (6)

Effect of exogenous methyl jasmonate on pathway of isoflavone synthesis in soybean·····MA Junlan, et al. (14)

Variation of tofu yield and qualities of soybean globulin subunit mutants·····DIAO Guizhu, et al. (19)

Research methods of single cell protein production from

potato residues of *Bacillus pumilus*·····ZHANG Xiangdong, et al. (26)

Method of tube diffusion test detecting β -lactam antibiotics residue in raw milk·····WU Xia, et al. (31)

Research on development of *Bifidobacterium adolescentis*-containing solidified yoghurt and

selective medium for strains·····LIU Han, et al. (36)

Rapid detection for main nutrient components of black currant berry using

near infrared technology·····JIN Changjiang, et al. (41)

Research on extracting PHA using reverse micelles·····LIU Yanyan, et al. (48)

Numerical simulation of steady airflow in inertia deposition separation chamber of

combine harvester threshing prior to cutting based on fluent·····YAN Senquan, et al. (54)

Simulation study of equipment in harvest machinery system by WITNESS·····MA Li, et al. (58)

Effect of inoculation concentration on anaerobic fermentation by

solid-liquid separated solution of dairy manure·····GUAN Zhengjun, et al. (63)

Analysis of flowing mechanism and simulation in impeller with

splitting vanes of centrifugal pump·····LI Guowei, et al. (68)

Cluster analysis used in plum parentage research.....JIAO Yang, et al. (72)

Study on egg image segmentation method based on machine vision.....JIA Chao, et al. (77)

Development of a continuous sampling and testing equipment by SPR biosensor.....CHU Guochao, et al. (83)

Effect of different reclamation measures on salinity and
enzyme activity in saline-alkali soil.....WANG Tianping, et al. (91)

Effect of irrigation methods on movement of soil water and salt in arid area.....ZHENG Xiaohui, et al. (95)

Morphological studies on senescence of vegetative mycelium of
Agaricus bisporusWANG Bo, et al. (99)

Human comfort degree index diurnal variation characters in different underlying surfaces in
Harbin suburb in August.....XUAN Mingjun, et al. (104)

Ecological functional zone of land use of Shuangyashan based on ARCGIS method.....SUN Binchun, et al. (109)

Heavy metals spatial distribution character of Jixian county farmland soil.....NIU Jiatian, et al. (113)

Effect of different straw returning methods on soil temperature in
spring sowing period.....CHANG Xiaohui, et al. (117)

Study on agricultural non-point source pollution critical source area identification and
control measures in Xingkai watershed.....GAO Fengjie, et al. (121)

Brief Report

Study on production process of several cereals drinks fermented by probiotics.....LUO Chaochao, et al. (127)

Research on the synthesizing of new NPDBPTD and its chromogenic reaction
with trace Pb (II).....HOU Lin, et al. (130)

Research Advance

Review of methods for monitoring soil heavy metal concentrations.....WU Jiansheng, et al. (133)

Economic study on sewage treatment engineering based on LCC.....LI Chenyang, et al. (140)

[Serial parameters]: CN23—1391/S * 1957 * m * A4 * 144 * zh * P * ¥8.00 * 1 000 * 28 * 2011-05-25