全 国 中 文 核 心 期 刊 中国科学引文数据库(CSCD)源刊

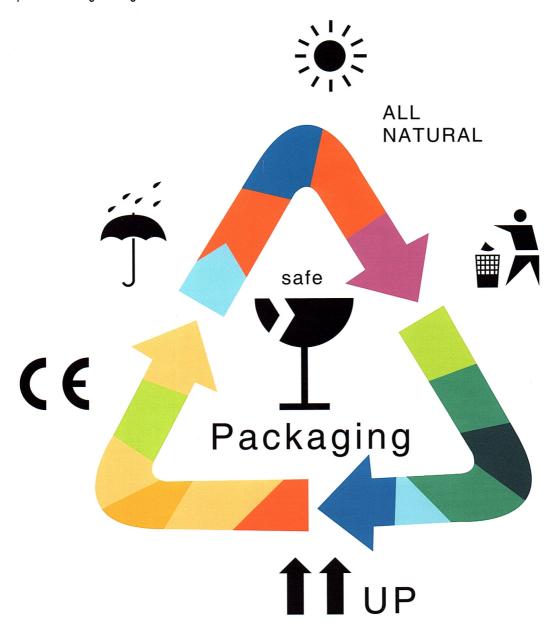
# 2015年5月 第36卷 第9期

主办单位: 中国兵器工业第五九研究所



# 专题──农产品贮藏

Special Topic on Storage of Agricultural Products



# 色装工程

BAOZHUANG GONGCHENG 第 36 卷 第 9 期 2015 年 5 月 10 日

### 目 次

#### 农产品贮藏专题

不同采收成熟度盖县李果实贮藏品质的综合评价

侯庆英,王姣,范新光,曹建康 1

采前水杨酸处理对甜瓜果实后熟软化的影响

敬媛媛,李娜,王英,朱璇7

常温下自制功能保鲜袋对火龙果的保鲜效果研究

刘青,李东立,刘冠一,陈雪柔,李可欣,冯亚芳,樊启鹏 12

不同贮藏温度对李果实花青素代谢的影响

胡顺卿,刘雨辰,井广琴,陈长宝,朱树华 16

不同材料薄膜包装对采后荔枝保鲜效果的影响

唐海尧,龚意辉,梁淑兴,张昭其,庞学群 23

常温运输后甜樱桃不同温度贮藏品质变化研究

王宝刚,李文生,侯玉茹,苗飞,石磊 28

气调与精油等包装技术联合应用对双孢菇品质的影响

潘艳娟,王建清,王猛 33

高CO2结合气调保鲜箱对草莓贮藏期间品质变化的影响

侯玉茹,李文生,王宝刚,苗飞,石磊 38

高CO<sub>2</sub>短时处理对茎瘤芥采后衰老的影响

江晶晶,陈洁,周雅涵,曾凯芳 42

1-MCP处理对无核白葡萄销地低温贮藏效果的影响

王宁,邓冰,李珍,陈计峦,李志文,闫师杰 48

#### 技术专论

超高压对低密度聚乙烯与乙醇相互作用的影响

程欣, 唐亚丽, 王淑娟, 卢立新, 方艳 54

超高压处理对冷鲜肉品质的影响

常江,巩雪 60

JG3军用合成制动液运输包装跌落仿真分析

朱霞,顾景喜,陈俊斌,陈永安,武小琴 64

梯形齿环状结构缓冲防护性能研究

许鑫,齐明思,孙亮,赵奇,刘守君 69

PP基材表面磁控共溅射制备新型阻隔薄膜的研究

朱琳,王金武,刘壮,林晶,孙智慧 73

基于生命周期设计的绿色包装材料选择

王幽又,杨随先 77

瓦楞纸箱板自动码垛机机械手设计初探

徐雪萌,张永宇,张映霞,徐云 82

袋式包装动态吸附传送特性的研究

陆佳平,张肖庆,张竹青 86

组合秤下料机构自适应控制

朱鹏飞,黄松和,冷东 90

基于 Pro/E 行为建模技术的包装机械零部件优化

张洪军,尚润琪 95

LED编带机热压头的热分析与优化设计

袁清珂,凌均健,缪来虎 99

秸秆纤维栈板的设计与研究

许洪龙,赵伟 103

模糊聚类和混沌自适应粒子群的神经网络色彩匹配

刘乐沁,邵奇,武燕 108

基于主观和客观视觉感知的图像增强技术

张雷洪,杜晓萌,樊丽萍,梁东,赖河木 114

基于FICA的色彩信号宽带多光谱空间研究

李梅,孔令罔 119

基于QR码的抗几何攻击数字全息水印

龚冬梅,顾济华,陈大庆,陈维霞 124

基于图像技术的喷墨打印纸表面孔隙分析

张岩,李仁爱,曹云峰 129

基于UV喷墨的彩色3D打印研究

何留喜,陈广学 134

数字化防伪技术的原理和应用研究

邓洋, 李征 139

铜版纸印品UV上光油的研制

张正健,黄汝权,陈蕴智,尹鹏瑞 144

表面活性剂合成性能及其在废纸脱墨中的应用

曹晓瑶 150

#### 论坛与资讯

美军军品包装技术标准体系建设研究

林高松,李巧兰 155

#### 广告索引

封二 普拉斯包装材料有限公司

封三 中国兵器工业第五九研究所包装工程技术研究中心

#### 插页

AI 济南兰光机电技术有限公司

A2 国防科技工业自然环境试验研究中心

A3 第十二届广州国际纸业展览会

A4 装备环境工程杂志

## PACKAGING ENGINEERING

(Initial Issue 1980) (Semimonthly)

Vol.36 No.9(Total No.303)May 10, 2015

#### **Contents**

#### **Special Topic on Storage of Agricultural Products**

Comprehensive Evaluation of Storage Quality of Beauty Plum Fruit with Different Harvest Maturity

HOU Qing-ying, WANG Jiao, FAN Xin-guang, et al. 1 Effects of Pre-harvest Salicylic Acid Treatment on Ripening and Softening of Muskmelon Fruits

JING Yuan-yuan, LI Na, WANG Ying, et al. 7

Quality Loss of Pitaya as Affected by Active Packaging Film at Room
Temperature

LIU Qing, LI Dong-li, LIU Guan-yi, et al. 12

Effect of Storage Temperature on Anthocyanin Metabolism in Plum Fruit

HU Shun-qing, LIU Yu-chen, JING Guang-qin, et al. 16

Effect of Different Packaging Films on the Postharvest Preservation of

Litchi Fruit

TANG Hai-yao, GONG Yi-hui, LIANG Shu-xing, et al. 23 Quality Changes of Sweet Cherry during Storage at Different Temperature after Transportation at Room Temperature

WANG Bao-gang, LI Wen-sheng, HOU Yu-ru, et al. 28 Impact of the Application of MAP Combined with Essential Oil and other Packaging Technology on the Quality of Agaricus Bisporus

PAN Yan-juan, WANG Jian-qing, WANG Meng 33 Effect of MAB Combined with High Carbon Dioxide on Quality Changes of Strawberry during Storage

HOU Yu-ru, LI Wen-sheng, WANG Bao-gang, et al. 38 Effects of Short-term High CO<sub>2</sub> Treatment on Senescence of Postharvest Tumorous Stem Mustard

JIANG Jing-jing, CHEN Jie, ZHOU Ya-han, et al. 42 Effect of 1-MCP Treatment on Hypothermia Storage Quality of Thompson Seedless Grapes at Sales Site

WANG Ning, DENG Bing, LI Zhen, et al. 48

#### **Technical Issue**

Effect of Ultra High Pressure on the Interaction between LDPE and Ethanol

CHENG Xin, TANG Ya-li, WANG Shu-juan, et al. 54

Effect of Ultra High Pressure Treatment on the Quality of Cold Fresh

Meat

CHANG Jiang, GONG Xue 60

Dropping Simulation Analysis of the Transport Package of JG3 Military

Synthetic Brake Fluid

ZHU Xia, GU Jing-xi, CHEN Jun-bin, et al. 64

Cushioning Performance of Trapezoidal Toothed Ring Structure

XU Xin, QI Ming-si, SUN Liang, et al. 69

Preparation of Novel Composite Barrier Films by Magnetron Co-sputtering on PP Substrate

ZHU Lin, WANG Jin-wu, LIU Zhuang, et al. 73

Material Selection in Design of Green Package Based on Concept of Life Cycle Design

WANG You-you, YANG Sui-xian 77

Design of Manipulators for Corrugated Box Board Automatic Palletizing System

XU Xue-meng, ZHANG Yong-yu, ZHANG Ying-xia, et al. 82 Dynamic Adsorption Conveying Properties of Bag-package

LU Jia-ping, ZHANG Xiao-qing, ZHANG Zhu-qing 86

Self-adaptive Control System for Feeding Mechanism of the Combination Weigher

ZHU Peng-fei, HUANG Song-he, LENG Dong 90

Optimization of Packaging Machinery Spare Parts Based on the Pro/E Behavior Modeling Technology

ZHANG Hong-jun, SHANG Run-qi 95

Thermal Analysis and Optimization Design for Thermal Head of LED Taping Machine

YUAN Qing-ke, LING Jun-jian, MIAO Lai-hu 99

Design and Research of the Pallet Made from Straw Fiber

XU Hong-long, ZHAO Wei 103

Neural Network Color Matching Model Based on Chaotic Self-adaptive Particle Swarm Optimization and Fuzzy Clustering Method

LIU Le-qin, SHAO Qi, WU Yan 108

Image Enhancement Technique Based on Subjective and Objective Visual Perception

ZHANG Lei-hong, DU Xiao-meng, FAN Li-ping, et al. 114

Color Signal Wide-band Multispectral Space Research Based on FICA

LI Mei, KONG Ling-wang 119

Holographic Digital Watermarking Algorithm against Geometric Attacks Based on QR Code

GONG Dong-mei, GU Ji-hua, CHEN Da-qing, et al. 124

Pore Analysis of Inkjet Paper Surface Based on Image Technology

ZHANG Yan, LI Ren-ai, CAO Yun-feng 129

3D Color Printing Based on UV Ink-jet Technology

HE Liu-xi, CHEN Guang-xue 134

Principle and Application of Digital Anti-counterfeit Technology

DENG Yang, LI Zheng 139

UV Varnish for Printing Samples of Copper Printing Paper

ZHANG Zheng-jian, HUANG Ru-quan, CHEN Yun-zhi, et al. 144 Synthesis and Properties of Surfactant and Its Application in Deinking of Wastepaper CAO Xiao-yao 150

#### **Forum and Information**



全 国 中 文 核 心 期 刊 中国科学引文数据库(CSCD)源刊

主办单位:中国兵器工业第五九研究所

ISSN 1001-3563

CN 50-1094 / TB

定价: 45.00元

邮发代号:78-30

国外发行号:BM1799

广告经营许可证:渝工商广字040297号

