

全国中文核心期刊
中国科学引文数据库（CSCD）源刊

2015年9月 第36卷 第17期

主办单位：中国兵器工业第五九研究所



包装工程

BAOZHUANG GONGCHENG

第36卷 第17期 2015年9月10日

目 次

包装技术与工程

利乐包装废弃物/HDPE 复合材料热重动力学研究

徐长妍,简伟程,赵春玲,李大纲,周捍东,姬安,王广静,熊雪平 1

食品包装安全研究

不同包装材料对鲜切榴莲保鲜品质的影响

范春玲,高欣,陈玉明,刘长亮 8

存储温度对保鲜纸中亚氯酸钠留着率的影响

王海莉,肖生苓,岳金权,李石磊 12

转光薄膜对绿颜色蔬菜品质影响的研究

王丽颖,韩晓冬,孟婕,张蕾 17

馒头的保质包装技术研究

李广生,许亚宁,王建清 22

液体塑料软包膜对低温酸奶风味的影响

付翠霞,朱宏,宋敏,王世杰,王亚平,王慧,马蕊 25

环保型改性玉米淀粉粘合剂的研究

王书丽,于静,李敏贤,郭小松,王书肖 30

技术专论

冲压式快速空投气囊空投轨迹研究

许鑫,齐明思,刘守君,孙亮 35

瓦楞纸箱包装设计需求分析映射方法

石宇强,吴隔格,张涛 39

纸浆模塑包装制品分体式吸滤成形模具的开孔问题

边兵兵,李伟平,沈新,李洪贵,张新昌 44

油脂沾染对瓦楞纸板力学性能的影响

简超,戴君,卢立新,张惠忠 49

节约型社会折叠纸盒拼版与结构优化设计技巧

牟信妮,孙诚,王波 52

空调器外机环保包装结构设计及测试

熊立贵,陈新,皮阳雪,李彭,涂志刚,盘卫星 56

大袋包装机真空吸袋装置吸附能力研究

王嵩,张秋菊,陈中杰 61

一种自动升降输送平台设计	信义兵,高跃飞,刘海涛,刘松,任洁	67
基于DCS的自动灌装码垛循环控制系统设计	段文军,张悦,岳翠萍,徐志刚,冯巍	72
标签裹包折标机构设计	陆新宇,王利强,廉晓根	76
一种新型电磁式锁紧机构设计与仿真分析	邱枫,杨臻,原永亮	80
印制电路板在板级跌落冲击的易损度探究	刘宏	84
凹印机热风干燥箱射流场数值计算与分析	刘琳琳,由磊,孙正成,武吉梅	87
一种基于子空间划分的LCD显示器光谱特征化模型	王瞿建,田全慧	95
边界噪声检测耦合差分曲率驱动的脉冲噪声图像降噪	魏长宝,张莉华	100
印刷网点微观结构提取方法研究	王琪,邱晓琳,王茜	107
彩色印刷品缺陷快速精确检测方法研究	王文举,赵萍,陈伟,谢寒,孙刘杰,姜中敏,陈景华	112
基于DCT-SVD的双QR码水印防伪算法	郭倩,陈广学,陈奇峰	119
基于Euclidean距离的纸张 z 向截面中墨层图像分割	梁巧萍,徐永建,杨保宏,张新宇	126
凹印机PID算法实现	彭燕	131

论坛与资讯

基于贝叶斯方法的包装企业供应商评价与选择模型	张洪	134
发射箱湿法缠绕用树脂体系黏度及固化动力学研究	包睿,仇振安,徐淑权	139
焊条在线计数装置研究	孙文顺,仇久安	144

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	
A1	上海金鼎印务有限公司
A2	第四届军品防护与包装发展论坛暨包装成果展示征文通知(第二轮)(跨版)
A3	济南兰光机电技术有限公司

PACKAGING ENGINEERING

(Initial Issue 1980) (Semimonthly)

Vol.36 No.17(Total No.311)Sep. 10, 2015

Contents

Packaging Technology and Engineering

Thermogravimetric Kinetics of Tetra Pak/HDPE Flame Retardant Composites

XU Chang-yan, JIAN Wei-cheng, ZHAO Chun-ling, et al. 1

Safety Research of Food Packaging

Effect of Different Packaging Materials on Preservation Quality of Fresh-cut Durian

FAN Chun-ling, GAO Xin, CHEN Yu-ming, et al. 8

Effect of Different Storage Temperatures on the Residual Rate of Sodium Chlorite on Preservative Papers

WANG Hai-li, XIAO Sheng-ling, YUE Jin-quan, et al. 12

Effect of the Light Conversion Film on the Quality of Green Vegetable

WANG Li-ying, HAN Xiao-dong, MENG Jie, et al. 17

Quality-keeping Packaging Technology of Steamed Bread

LI Guang-sheng, XU Ya-ning, WANG Jian-qing 22

Influence of Soft Package of Liquid Plastic Film on the Flavor of Low-temperature Yogurt

FU Cui-xia, ZHU Hong, SONG Min, et al. 25

Environment Friendly Adhesive Composed of Modified Corn Starch

WANG Shu-li, YU Jing, LI Min-xian, et al. 30

Technical Issue

Airdrop Trajectory of the Punching-type Quick Airdrop Airbags

XU Xin, QI Ming-si, LIU Shou-jun, et al. 35

Requirement Mapping Method in Corrugated Cardboard Box Packaging Design

SHI Yu-qiang, WU Ge-ge, ZHANG Tao 39

Opening Problem of Split Type Suck-filtration Mold for Molded Pulp Packaging Products

BIAN Bing-bing, LI Wei-ping, SHEN Xin, et al. 44

Influence of Staining of Grease on Mechanical Properties of Corrugated Paperboard

JIAN Chao, DAI Jun, LU Li-xin, et al. 49

Optimization Design Techniques of the Layout and Structure of Folding Carton in Conservation-oriented Society

MOU Xin-ni, SUN Cheng, WANG Bo 52

Structure Design and Test of Environment Friendly Packaging for Air Conditioner Outdoor Unit	
XIONG Li-gui, CHEN Xin, PI Yang-xue, et al.	56
Adsorption Capacity of Vacuum-sucking Device of Packaging Machine for Heavy-duty Bags	
WANG Song, ZHANG Qiu-ju, CHEN Zhong-jie	61
Design of an Automatic Lifting Conveying Platform	
XIN Yi-bing, GAO Yue-fei, LIU Hai-tao, et al.	67
Design of Automatic Filling-packing-unstacking Cycle Control System Based on DCS	
DUAN Wen-jun, ZHANG Yue, YUE Cui-ping, et al.	72
Design of Label Folding Wrap Mechanism	
LU Xin-yu, WANG Li-qiang, LIAN Xiao-gen	76
Design and Simulation of a New Type of Electromagnetic Locking Mechanism	
QIU Feng, YANG Zhen, YUAN Yong-liang	80
Vulnerability of Printed Circuit Board in Level Drop Impact	
LIU Hong	84
Jet Flow Field Numerical Calculation and Analysis on Hot-air Drying Oven of Gravure Press	
LIU Lin-lin, YOU Lei, SUN Zheng-cheng, et al.	87
A Spectral Characterization Model of Liquid Crystal Display (LCD) Based on RBF Neural Network	
WANG Qu-jian, TIAN Quan-hui	95
Denoising Algorithm of Impulse Noise Image Based on Difference Curvature-driven Diffusion Model of Boundary Discriminative Noise Detection Coupling	
WEI Chang-bao, ZHANG Li-hua	100
Extraction Method of Microscopic Structure of Printing Dot	
WANG Qi, QIU Xiao-lin, WANG Qian	107
A Fast and Accurate Method of Defect Detection of Colour Printing Image	
WANG Wen-ju, ZHAO Ping, CHEN Wei, et al.	112
Double QR Code Watermarking Algorithm Based on DCT-SVD	
GUO Qian, CHEN Guang-xue, CHEN Qi-feng	119
Segmentation of the Ink Layer in z-direction Cross-section Views of Offset Paper by Using Euclidean Distance and Digital Microscope	
LIANG Qiao-ping, XU Yong-jian, YANG Bao-hong, et al.	126
Implementation of Control Rule PID in Gravure Printing Machine	
PENG Yan	131

Forum and Information

Evaluation and Selection Model of Packaging Enterprise' s Supplier Based on Bayesian Method	
ZHANG Hong	134
Viscosity and Curing Kinetics of Resin System for Wet Winding of Launch Box	
BAO Rui, QIU Zhen-an, XU Shu-quan	139
Online Counting Device for Electrodes	
SUN Wen-shun, QIU Jiu-an	144

包装工程

Packaging Engineering

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

ISSN 1001-3563



9 771001 356151