

全国中文核心期刊
中国科学引文数据库 (CSCD) 源刊

2015年12月 第36卷 第23期

主办单位: 中国兵器工业第五九研究所



专题——环保与功能油墨

Special Topic on Environment-friendly and Functional Ink



包装工程

BAOZHUANG GONGCHENG

第36卷 第23期 2015年12月10日

目次

环保与功能油墨专题

环氧改性丙烯酸树脂乳液的制备和性能研究

辛秀兰,于洋,徐宝财,贺丹,程雪华,吴涛,禹晓燕 1

环保防伪包装用蒽类喷墨油墨制备及性能研究

张婉,魏先福,王琪,冯星,熊晓桐 7

封端剂对聚氨酯分散液性能的影响

吴涛,于洋,辛秀兰,徐宝财,禹晓燕,王鹏 12

石墨烯导电油墨的研究进展

石小梅,徐长妍,姬安 17

用于塑料薄膜的荧光凹印油墨的制备与性能研究

向华,龚逸仙,李军,林木雄,欧建志 24

水性和UV喷墨印刷油墨对线条印刷质量的影响

潘丹红,陈广学 30

草酸处理制备抗氧化的纳米铜导电油墨

万云蕾,周奕华,钱俊,苏亚兰 34

油酸钠改性纳米氧化镁及在抗菌油墨中的应用

段华伟,郭清霞,汤树海,曾繁鑫 39

技术专论

金属罐外涂膜中苯和甲苯向内涂膜迁移的影响因素研究

叶敏立,向红,李大伟,范小平,孙魁魁 43

灰底白板纸与白卡纸的弹性常数对比

储信庆,计宏伟 48

热罐装瓶PET/PCTG共混性能研究

李敏雯,李夏君,张钦发 53

环化SBS吸氧共混物的制备及其性能研究

姜方园,卢立新,邱晓琳,唐亚丽 58

胶黏剂对木质包装材料快速热解特性的影响

苟进胜,常建民 62

秸秆育苗钵包装容器的降解性能研究

李军,赵嘉蓓,王炳涛,高德 67

聚乳酸/壳聚糖复合材料的制备及性能研究

班长伟,牛明军,段瑞侠,张丽,陈金周 72

| | |
|------------------------------|---------------------------|
| 蜂窝铝的侵彻实验研究与有限元模拟 | 欧阳昊,成伟 75 |
| 基于有限元法的结构发泡材料参数识别方法研究 | 葛正浩,王凯,金龙 78 |
| 冲压式空投气囊着陆缓冲性能仿真研究 | 张纪平,刘守君,齐明思,赵奇,孙亮,张峰 83 |
| 三平动并联机构动力学建模与工作空间分析 | 白龙,孙牧原,崔国华,崔浩洋 88 |
| 封边系统关键部件的有限元分析 | 杨春梅,赵洪元,任洪娥 94 |
| 卫生香振动送料包装机的人机工程学设计 | 赵仕奇,黄银花,殷红梅,何晓佑 99 |
| 组合秤称重传感器大变形致非线性误差分析 | 朱鹏飞,黄松和,梅菊 103 |
| 新型滤棒激光测径仪测量角的确定 | 韩刚,杨智皓,何邦贵 107 |
| 胶印机油墨预置曲线的跟踪校正及应用 | 刘影,邢洁芳,葛力 111 |
| 纸张在纸道出口的无约束动态变形研究 | 王冰,杨继全 116 |
| 有机硅含量对水性上光油性能的影响 | 乔晓龙,张居中,姜雪,张春红,李秀燕,陈默 121 |
| 基于QR码的DWT-SVD数字水印算法 | 于海娇,孙刘杰,李毓彬,包观笑 125 |
| 单色半色调墨点非规整 Clapper-Yule 分程模型 | 何晓敏,王颖,柯能,张逸新 130 |
| 按需印刷平台中的相似搜索研究 | 张明西,张雷洪,吕巍,孙刘杰 135 |
| UV喷墨色浆的分散稳定性的研究 | 张明志,张正健,陈蕴智 140 |
| 调频网点微观形态表征与应用研究 | 王茜,王琪 144 |
| 密度叠印率与色差之间关系的研究 | 唐耀存 150 |

论坛与资讯

| | |
|-------------------|------------|
| 低碳经济时代“无包装”购物模式分析 | 李琛,李晓旭 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 | |
| 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成果展示会议报道 |
| A3 | 国防科技工业自然环境试验研究中心 |

Contents

Special Topic on Environment-friendly and Functional Ink

- Preparation and Properties of Polyacrylate Emulsion Modified by Epoxy Resin
XIN Xiu-lan, YU Yang, XU Bao-cai, et al. 1
- Preparation and Characterization of Inkjet Ink Based on Anthracene Derivative Applied in Environment-friendly Anti-counterfeiting Packaging
ZHANG Wan, WEI Xian-fu, WANG Qi, et al. 7
- Effect of End-capping Reagent on Properties of Polyurethane Dispersions
WU Tao, YU Yang, XIN Xiu-lan, et al. 12
- Advances in Graphene Conductive Ink
SHI Xiao-mei, XU Chang-yan, JI An 17
- Preparation and Properties of Fluorescence Gravure Ink for Plastic Films
XIANG Hua, GONG Yi-xian, LI Jun, et al. 24
- Influence of Water-based and UV Ink-jet Printing Ink on the Print Quality of the Text Line
PAN Dan-hong, CHEN Guang-xue 30
- Preparation of Antioxidative Copper Conductive Ink by Oxalic Acid Treatment
WAN Yun-lei, ZHOU Yi-hua, QIAN Jun, et al. 34
- Sodium Oleate Modified Nano Magnesium Oxide and Its Application in Antibacterial Ink
DUAN Hua-wei, GUO Qing-xia, TANG Shu-hai, et al. 39

Technical Issue

- Influencing Factors of Migration of Benzene and Toluene from External Coatings to Internal Coatings of Metal Cans
YE Min-li, XIANG Hong, LI Da-wei, et al. 43
- Comparison of the Elastic Constants between the Gray Manila Board and Ivory Board
CHU Xin-qing, JI Hong-wei 48
- Properties of Blends of Polyethylene Terephthalate (PET) and Poly (Ethylene-co-cyclohexane1,4-dimethanol) Terephthalate (PCTG) for Hot-filled Bottles
LI Min-wen, LI Xia-jun, ZHANG Qin-fa 53
- Preparation and Property of Cyclized Styrene-butadiene Oxygen Scavenging Blend
JIANG Fang-yuan, LU Li-xin, QIU Xiao-lin, et al. 58
- Effects of UF Resin on the Fast Pyrolysis of Waste Wood Used in Packaging Engineering
GOU Jin-sheng, CHANG Jian-min 62
- Degradation of Packaging Container of Straw Seeding Pot
LI Jun, ZHAO Jia-bei, WANG Bing-tao, et al. 67

| | |
|--|--|
| Preparation and Properties of PLA/Chitosan Composites | |
| | <i>BAN Chang-wei, NIU Ming-jun, DUAN Rui-xia, et al.</i> 72 |
| Experimental Study and Finite Element Simulation on Penetration of Aluminum Honeycomb | <i>OUYANG Hao, CHENG Wei</i> 75 |
| Parameter Identification Method of Structure Foam Material Based on Finite Element Method | <i>GE Zheng-hao, WANG Kai, JIN Long</i> 78 |
| Simulation Research on the Landing Cushion Performance of Ram Air-drop Airbag | |
| | <i>ZHANG Ji-ping, LIU Shou-jun, QI Ming-si, et al.</i> 83 |
| Dynamics Modeling and Work Space Analysis of Three Translational Parallel Mechanism | |
| | <i>BAI Long, SUN Mu-yuan, CUI Guo-hua, et al.</i> 88 |
| Finite Element Analysis of the Key Components of Sealing System | |
| | <i>YANG Chun-mei, ZHAO Hong-yuan, REN Hong-e</i> 94 |
| Ergonomic Design for the Vibration Feeding Packing Machine of Incense Stick | |
| | <i>ZHAO Shi-qi, HUANG Yin-hua, YIN Hong-mei, et al.</i> 99 |
| Analysis of Nonlinear Error Caused by Large Deformation of Load Sensor for Combination Weigher | |
| | <i>ZHU Peng-fei, HUANG Song-he, MEI Ju</i> 103 |
| Measuring Angle Determination of New Type of Filter Rod Laser Measuring Diameter Instrument | |
| | <i>HAN Gang, YANG Zhi-hao, HE Bang-gui</i> 107 |
| Tracking Correction and Application of Offset Printing Ink Preset Curve | |
| | <i>LIU Ying, XING Jie-fang, GE Li</i> 111 |
| Unconstrained & Dynamic Deformation of Paper Feeding | |
| | <i>WANG Bing, YANG Ji-quan</i> 116 |
| Effect of Organic Silicon Content on the Properties of Waterborne Glazing Oil | |
| | <i>QIAO Xiao-long, ZHANG Ju-zhong, JIANG Xue, et al.</i> 121 |
| Digital Watermark Algorithm with DWT-SVD Based on QR Code | |
| | <i>YU Hai-jiao, SUN Liu-jie, LI Yu-bin, et al.</i> 125 |
| Extended Clapper-Yule Spectral Reflectance Model of Monochrome Halftone Image with Irregular Ink Dot | |
| | <i>HE Xiao-min, WANG Ying, KE Neng, et al.</i> 130 |
| Similarity Search over Print-on-demand Platform | |
| | <i>ZHANG Ming-xi, ZHANG Lei-hong, LYU Wei, et al.</i> 135 |
| Dispersion Stability of UV Inkjet Colorants | |
| | <i>ZHANG Ming-zhi, ZHANG Zheng-jian, CHEN Yun-zhi</i> 140 |
| Micro Morphology Characterization and Application of FM Dot | |
| | <i>WANG Qian, WANG Qi</i> 144 |
| The Relationship between Density Trapping Rate and Chromatic Aberration | |
| | <i>TANG Yao-cun</i> 150 |

Forum and Information

| | |
|--|----------------------------------|
| Analysis of "Unpackaged" Shopping Business Mode in the Era of Low-carbon Economy | <i>LI Chen, LI Xiao-xu</i> , 155 |
|--|----------------------------------|

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

