

目

录

2011年6月15日出版

CONTENTS

电沉积技术 *Electrodeposition Technology*

1 富勒醇在镍复合镀层中的热扩散机理

王芳芳，李宁，黎德育

Diffusion mechanism of fullerene molecules in nickel composite coating during heat treatment

WANG Fang-fang, LI Ning, LI De-yu

电镀 *Electroplating*

5 香草醛在弱酸性体系锌-铁合金电镀中的应用

王星，廖崇静，钱俊，李建芬，周晓荣，陈世忠

Application of vanillin to zinc-iron alloy electroplating in weakly acidic bath

WANG Xing, LIAO Chong-jing, QIAN Jun, LI Jian-fen, ZHOU Xiao-rong, CHEN Shi-zhong

8 适用于输配电行业的铜件镀银工艺

茅红裕

Silver plating process for copper parts used in power transmission and distribution industry

MAO Hong-yu

12 铝箔电镀铜和锡的工艺

曾海军

Process for electroplating copper and tin on aluminum foil

ZENG Hai-jun

化学镀 *Electroless Plating*

14 中温酸性化学复合镀镍-磷-纳米氧化铝

蔺万峰，庄桂红，赖明峰，邢秋菊，崔霞，马溪，邹建平

Acidic electroless plating of nickel-phosphorus-alumina nanocomposite at medium temperature

LIN Wan-feng, ZHUANG Gui-hong, LAI Ming-feng, XING Qiu-ju, CUI Xia, MA Xi, ZOU Jian-ping

18 Development of electroless Ni-P-B₄C composite coatings

S. Karthikeyan, G. Venkatachalam, K. N. Srinivasan, T. Vasudevan, S. Narayanan

镍-磷-碳化硼化学复合镀层的研制

KARTHIKEYAN S, VENKATACHALAM G, SRINIVASAN K N, VASUDEVAN T, NARAYANAN S

化学转化膜 *Chemical Conversion Coating*

22 镀铜导针线材的抗氧化处理

王志登，魏旭婷，朱小亮，孙汝东

Anti-oxidation of copper-coated steel wires

WANG Zhi-deng, WEI Xu-ting, ZHU Xiao-liang, SUN Ru-dong

25 医用钛合金微弧氧化膜的制备及其生物相容性研究

王凤彪，狄士春

Preparation and biocompatibility study of medical micro-arc oxidation coating on titanium alloy

WANG Feng-biao, DI Shi-chun

29 镁基材料表面微弧氧化生物医用陶瓷涂层研究进展

李智

Research progress of biomedical ceramic coatings obtained by micro-arc oxidation on the surface of magnesium-based materials

LI Zhi

三废治理 *Waste Treatment*

34 化学镀镍老化液的生物处理

王凌云，王小杰，邵谦

Biological treatment for spent electroless nickel plating bath

WANG Ling-yun, WANG Xiao-jie, SHAO Qian

38 微电解处理含镍模拟电镀废水

苏彤，陆钢，李朝林

Micro-electrolysis treatment of simulated electroplating wastewater containing nickel ions

SU Tong, LU Gang, LI Zhao-lin

电镀设备 *Equipment*

42 电镀清洗用水采用电导自控的必要、原理与困难

袁诗璞

Necessity, principle and difficulty of automatic conductivity control of water rinsing in electroplating production

YUAN Shi-pu

发展论坛 *Review*

46 无氟镀锌技术的发展和工业应用的现状

马冲

Development and industrial application status of cyanide-free zinc plating technology

MA Chong

50 锌合金压铸件无氟工艺概述

徐金来，胡耀红，赵国鹏

Review on non-cyanide surface treatments for zinc alloy die-castings

XU Jin-lai, HU Yao-hong, ZHAO Guo-peng

金属毒理学知识讲座 *Lecture - Metal Toxicology*

53 第五讲——镍与铁

袁诗璞

V. Nickel and Iron

YUAN Shi-pu

现代涂层技术专刊

Advanced Coating Technology

- 57 硅油微胶囊及其水性防覆冰涂料的制备与性能
Preparation and property of silicone oil microcapsules and its waterborne anti-icing coatings
PANG Hong-bo, ZHOU Shu-xue, WU Li-min
- 62 纳米复合改性水性环氧涂料的研制
Preparation of nanocomposite-modified waterborne epoxy coating
ZHOU Hua-li, YIN Jin-jie, SUN Hong-mei, JIANG Sheng-nan
- 65 水性集装箱外面漆的制备及性能研究
Preparation of waterborne exterior paint for container and its performance
CHEN Hai-hong, CHEN Zhong-hua, CHEN Jian-hua
- 70 风力发电设备防腐涂装
Anti-corrosion coating of wind power equipment
LI Cheng-yu, WANG Hui-yang, CHAO Bing, LI Ping, NI Ya
- 73 柠檬酸根对镍钛合金表面电沉积羟基磷灰石涂层的影响
Effect of citrate on electrochemical deposition of hydroxyapatite on nitinol alloy surface
HE Cong-jun, HUANG Yong, CAO Yu, YANG Ye-qiao, PANG Xiao-feng
- 77 气相色谱-质谱法测定玩具涂层中富马酸二甲酯
Determination of dimethyl fumarate in coating on toys by GC-MS
JIANG Xiao-liang, MO Liang-jun, SU Shu-tan

涂料涂装技术快讯 Paint & Coatings Industry News

我国涂料产品质量合格率依旧令人担忧，国产涂料要做大做强 品牌建设需三步走，共2则。

81 专利信息 Latest Patents

一种电镀金属Ga和Ga合金的溶液体系，汽车轮毂电镀金黄色新工艺，等11则。

83 信息资讯 News & Briefs

西安电镀业：新模式谋求新发展，电镀涂装业产值将达1800亿，共3则。

84 行业会讯 Calender of Events

公告 Notice

- 11 37 41 49 56 83 84 书讯
- 4 欢迎访问表面处理领航网
- 17 《电镀与涂饰》杂志约稿信
- 24 红日星产品推介——脱漆剂
- 28 广州市二轻研究所诚聘销售精英
- 33 《电镀与涂饰》全文数据光盘推介
- 61 2011年《电镀与涂饰》(月刊)补订启事
- 80 《电镀与涂饰》杂志电子阅览室重新开通
- 85 “广东电镀协会第二届(2011)国际电镀技术论坛——电镀废水处理新技术主题研讨会”报道
- 86 “第九届广州国际表面处理展”报告会介绍