



染整技术[®]

RANZHENG JISHU

10

2010年

(1979年创刊)

第32卷

(总第210期)

月刊

公开发刊

主 编

徐谷仓

副主编

崔浩然 唐育民

陈立秋 蔡明训 刘建平

本期责编

崔浩然

本刊现入编“万方数据——数字化期刊群”、“中国核心期刊(遴选)数据库”、“中国学术期刊综合评价数据库”、“中国期刊网”、“中国学术期刊(光盘版)”,作者著作权使用费与本刊稿酬一次性给付,不再另行发放。作者如不同意将文章入编,投稿时敬请说明。

目

次

编者论坛

本期内容浅析

.....本刊编辑部(扉页)

专论与综述

涤纶长丝织物吸湿排汗整理工艺的研究

.....王雪梅 杨 茂(1)

纺织品的阻燃整理原理及其性能测试方法探讨

.....赵 磊(6)

PLA纤维的低温等离子体改性

.....李 亮(9)

中温型活性染料对珍珠纤维的染色

.....曹机良 孟春丽(13)

生产技术

纤维素酶在仿天丝产品上的应用

.....俞冬晴 贺江平 李环球(17)

亚麻织物麻皮漂白去除方法

.....姜 生(20)

装饰织物涂料印花工艺的探讨

.....尚红燕(24)

针织物前处理中除氧方式探索

.....贾开心 左凯杰(26)

经活性染料染色的棉织物耐丝光试验分析

.....郭开华(30)

《染整技术》杂志(月刊)

2010年度广告即日起全面征订

广告总代理:

常州市龙轩文化传媒有限公司

联系人: 殷耀生
垂询电话: 0519-88139958 (0)13337895889
电子邮箱: E-mail: yysheng-2008@163.com

清洁生产

氯化稀土在酸性媒介染色中的应用研究
..... 殷 辉 李美真(32)

染料与助剂

低温无醛聚丙烯酸酯乳液的合成及研究
..... 刘春燕 赵振河 唐 璐等(35)
不同抗静电剂协同效应的研究
..... 卢 霜(40)

标准与检测

染厂精练剂的快速测试
..... 顾玉兰 洪华(42)

染整设备

基于机器视觉的圆网印花在线检测与控制系统
..... 朱剑东 肖 凯 冯 军(43)

百花苑

针织物剖幅连续加工
..... 陈立秋(46)

讲 座

泡沫染整技术的节能(二)
..... 陈立秋(49)

染整专利

染整专利摘登
..... 王元荪 陈 黎(54)

本期广告索引

..... 本刊编辑部(5)

主 管	江苏省纺织(集团)总公司	印 刷	常州市育才印刷有限公司
主办、联办	中国纺织工程学会染整专业委员会 江苏省纺织工程学会 常州印染科学研究所	发 行	常州邮电局
协 办	常州能源设备总厂有限公司 常州宏大科技(集团)	订 阅	全国各地邮局(所)
编 辑	《染整技术》杂志编辑委员会	邮发代号	28-177
出 版	《染整技术》杂志编辑部	中国标准连续出版物号	ISSN 1005-9350 CN32-1420/TQ
电 话	(0519)88871195 88836205	广告经营许可证	常工商广字041147号
传 真	(0519)88871195	出版日期	2010年10月20日
地 址	常州市武进区湖塘纺织工业园杨江路18号(新益来厂内)	定 价	全年120.00元
市区办公地址	常州市周线巷24号金秋大厦718室	E-mail:	rzjs1420@163.com
		邮 编:	213162 213003

FEATURES AND REVIEWS

1 Moisture Absorption and Perspiration Transmission of Polyester Filament Fabrics

By Xuemei WANG¹, Mao YANG², 1. School of Machinery and Electronics Technology, Lanzhou University of Science and Technology, Lanzhou, Gansu; 2. Youngor, Sino-Japan Textile Dyeing and Printing Co., Ltd. Ningbo, Zhejiang

Abstract: This study treats the polyester filament fabric with finishing agent HF-2 Which imparts moisture absorption and perspiration transmission, thus improving its comfortability, hand feeling, and wearability. The finishing process using HF-2 is studied and the optimal process conditions are determined. The capillary effect, moisture transmitting, drying speed, and washing durability of the treated fabrics are tested, and the results indicate that HF-2 finish renders polyester filament fabrics good moisture absorption and perspiration transmission, as well as treatment durable effect.

Key words: polyester filament fabric; finishing agent for moisture absorption and perspiration transmission; moisture absorption and perspiration transmission finishing; performance test; comprehensive evaluation

6 Retarding Finishing of Textiles and Property Test Methods

By Lei ZHAO, Textile Engineering Department, Yancheng Textile Vocational Technology College, Yancheng, Jiangsu

Abstract: The paper introduces the principle of retarding finishing of textiles with focuses on test methods of properties of retardant finished fabrics both at home and abroad.

Key words: retarding finishing; test method; property

9 Low Temperature Plasma Modification of PLA Fibres

By Liang LI, Yancheng Textile Vocational Technology College, Yancheng, Jiangsu

Abstract: PLA fibres are modified by low temperature plasma treatment, and the influence of treatment time and treatment power on K/S, strength, wettability and rubbing fastness of the treated fibres are investigated, along with explanation of their causes. FT-IR analysis of the fabrics before and after the treatment shows that the treated fabrics possess many polar groups.

Key words: PLA fibre; low temperature plasma; modification; dyeing properties

PRODUCTION TECHNIQUE

17 Application of Cellulase to Tencel-like Fabrics

By Dong-qing YU, Xi'an Polytechnic University, Xi'an, Shaanxi

Abstract: dyeing and finishing process of cotton Tencel-like fabric, biopolishing treatment of the fabric is performed with cellulase so as to remove hairiness on the surface of the fabric and improve fabric hand feel.

Key words: dyeing and finishing; cellulase; biopolishing; cotton fibre

20 Removing Bast Skin on Yarns of Fully Bleached Linen Fabric

By Sheng JIANG, Department of Dyestuff and Chemicals Nantong Textile Vocational Technology College, Nantong, Jiangsu

Abstract: It is found by various pretreatments of linen fabrics that the bleaching effect of the bast skin of linen fabrics of full bleach linen yarns is related with scouring process, especially with the contact of chemicals. When the bast skin comes in direct contact with chemicals, proper treatments such as acid wash can render the fabric excellent effect in bleaching and removal of bast skin.

Key words: full bleach yarn fabric; bast skin; scouring; acid wash; bleaching

30 Mercerizing Resistance of Reactive Dyestuff Dyed Cotton Fabrics

By Kaihua GUO, Wuhan Vocational Technology College, Wuhan, Hubei

Abstract: Investigation into mercerizing resistance of reactive dyestuff dyed cotton fabrics reveals that during short time, hydrolysis and colour losing of dyes are chiefly attributed to high temperature rather than high concentration caustic soda. This means that proper mercerizing process can be applied to reactive dyestuff dyed cotton fabrics.

Key words: reactive dyes; cotton cloth; mercerizing

CLEAN PRODUCTION

32 Rare Earth Chloride in Dyeing with Acid Mordant Dyes

By Hui YIN, Meizheng LI, College of Light Industry and Textile, Nei Mongol University, Hubhot, Nei Mongol

Abstract: In wool dyeing with acid mordant dyes rare earth chloride is used for the pretreatment of wool, follow by after-chrome dyeing, cutting down half of the amount of the mordant as used in the traditional process. The results show that pretreatment of wool fabric with rare earth chloride improves its dyeability, and also achieves the purpose of low-chrome dyeing. Finally the optimized dyeing process using rare earth chloride in dyeing wool with acid mordant dyes has been determined.

Key words: rare earth chloride; pretreatment; low-chrome dyeing

MACHINERY

43 On-line Detection and Control System of Rotary Screen Printing Based on Machine Vision

By Jiandong ZHU, Kai XIAO, Jun FENG, Changzhou Hongda Electric Co., Ltd Changzhou, Jiangsu

Abstract: Focusing on misfit of printing pattern in multicolour printing with the printing equipment in textile industry, this paper uses VC++6.0 and halcon as development platform, adopts geometric matching algorithm of template matching algorithm combined with practical industrial production, and designs a set of on-line detection and control system of rotary screen printing. The system can inspect misfit of printing pattern resulting from different velocities among rotary screen, compute the printing deviation by means of image processing algorithm and carry out real time control by the control unit.

Key words: rotary screen printing; geometrid matching; peinting deviation

1 Editor's Forum

49 Lectures

5 Index to Advertisers

46 Thoughts Debate

54 Patents, Dyeing & Finishing

The United Publishers: Dyeing and Finishing Speciality Committee of Textile Engineering Society of China
Textile Engineering Society of Jiangsu Changzhou Dyeing and Pronting Research Institute

Associated Publishers: Changzhou Energy Equipement General Factory
Changzhou HongDa Automation Device Factory

Editor: Editorial Board, Editorial Department of Textile Dyeing and Finishing Journal

Editor-In-Chief: Gu-cang XU

Associate Editors: Hao-ran CUI, Yu-ming TANG, Li-qiu CHEN, Ming-xun CAI, Jiang-ping LIU

Executive Editor: Hao-ran CUI

Add: 718 Room of Jinqiu Mansion, 20 Zhouxian Alley, Changzhou, Jiangsu province, China

Postcode 万方数据 213003