



The Textile Institute

# The Journal of The Textile Institute

*Editor* Dr. David R. Buchanan 2011 Vol 102 No 1 ISSN 0040-5000



Taylor & Francis  
Taylor & Francis

# The Journal of The Textile Institute

Editor David R. Buchanan

2011 Vol 102 No 1

ISSN 0040-5000

## CONTENTS

### Papers

- 1 An integrated method of feature extraction and objective evaluation of fabric pilling**  
*Z. Deng, L. Wang and X. Wang*
- 14 Application of air-jet nozzle in short staple Siro spinning system**  
*A. Sherafati Nejad, S. Shaikhzadeh Najar and H. Hasani*
- 19 Automatic recognition of woven fabric pattern based on image processing and BP neural network**  
*R. Pan, W. Gao, J. Liu and H. Wang*
- 31 Influence of polyester fibre fineness and cross-sectional shape on low-stress characteristics of fabrics**  
*R.K. Varshney, V.K. Kothari and S. Dhamija*
- 41 Descriptive differential attributes of type of fleeces in llama fibre and its textile consequence. Part 2: consequences of the dehairing process**  
*E.N. Frank, M.V.H. Hick and O.G. Adot*
- 50 Effect of environmental parameters on water vapor transfer of fabrics**  
*J. Huang and Y. Chen*
- 57 Investigation of air permeability of single jersey fabrics with different relaxation states**  
*S. Mavruz and R.T. Ogulata*
- 65 Optimal geometry design of the melt-blowing slot die with high stagnation temperature via the orthogonal array method and numerical simulation**  
*Y. Sun and X. Wang*
- 70 Effect of percentage of short fibers removed from cotton during spinning on the properties of dyed polyester/cotton-blended knitted fabrics**  
*M.H. Malik and T. Hussain*
- 77 Numerical simulation of woven fabric wrinkling**  
*B. El Abed, S. Msahli, H. Bel Hadj Salah, R. Zaouali and F. Sakli*
- 87 Indigo dyeing of polyester (PET) – pH effects**  
*G.A. Baig*

### Abstracted and Indexed in:

Chemical Abstract Service  
Coloration Technology Abstracts  
Compendex  
Elsevier Scopus  
INSPEC  
Polymer Library  
Textile Technology Index  
Thomson ISI  
TOGA  
World Textile Abstracts

Available online at:

[www.tandf.co.uk/journals/tjti](http://www.tandf.co.uk/journals/tjti)



The Textile Institute  
International Headquarters  
1st Floor St James' Buildings  
79 Oxford Street  
Manchester  
M1 6FQUK  
[www.textileinstitute.org](http://www.textileinstitute.org)



Taylor & Francis  
Taylor & Francis



0040-5000(2011)102:1;1-L