



Peer Review Research

1 **Fourier Transform Infrared Macro-Imaging of Botanical Cotton Trash**

By Chanel Fortier, Michael Santiago Cintròn, and James Rodgers, USDA, SRRC

Key Terms

Cotton, Botanical trash, FTIR, Imaging, Infrared

DOI: 10.14504/ajr.2.6.1

7 **Comparative Analysis of Mechanical Properties for Pointe Shoe Fabrications**

By Esthella Gonzalez, Cynthia L. Regan, and Jiangning Che, California State Polytechnic University, Pomona

Key Terms

Abrasion resistance, Mechanical properties, Pointe shoes, Tear strength, Tensile strength

DOI: 10.14504/ajr.2.6.2

14 **Extraction, Characterization, and Evaluation of Proso Millet Starch in Textile Printing**

By Apurba Banerjee, Colorado State University, and Ajoy K. Sarkar, Fashion Institute of Technology

Key Terms

Printing, Print paste, Proso millet, Starch, Thickener, Vat dyes

DOI: 10.14504/ajr.2.6.3

20 **Ultraviolet Protection and Light Transmission Properties of a Cotton/Spandex Fabric Treated with TiO₂ Extender Pigments**

By Matthew J. Farrell, Cotton Incorporated, and Gerald A. Vandezande, 1st Source Research Inc.

Key Terms

Coatings, Cotton, Fabric opacity, Inorganic pigments, Metal oxides, Spandex, UPF, UV, UV protection, Visible light

DOI: 10.14504/ajr.2.6.4