



Peer Review Research

1 **Color Build-Up and UV-Protection Performance of Encapsulated Photochromic Dye-Treated Cotton Fabrics**

By Emriye Perrin Akçakoca Kumbasar, Ahmet Çay, and Seniha Morsunbul, Ege University; and Bojana Voncina, University of Maribor

Key Terms

Binders, Color, Encapsulation, Photochromic Dyes, UV Protection

DOI: 10.14504/ajr.3.2.1

8 **Characterizing Fabrics in Firefighters' Protective Clothing: Hot Water Immersion with Compression**

By Sumit Mandal, University of Alberta, and Guowen Song, Iowa State University

Key Terms

Burn Injury, Firefighters, Performance, Protective Textiles, Thermal Exposure, Thermal Resistance

DOI: 10.14504/ajr.3.2.2

16 **Dendrimer Technology for Water and Oil Repellent Cotton Textiles**

By Riza Atav, Namik Kemal University, and Berkay Barış, Kırklareli University

Key Terms

Cotton, Dendrimer, Fluorocarbon, Repellency, Wash Resistance

DOI: 10.14504/ajr.3.2.3

25 **Advancing the Forensic Analysis of Dyed Fibers by Time-of-Flight Mass Spectrometry**

By Chuanzhen Zhou, Keith R. Beck, David Hinks, Anne Crawford, and Samantha Blake, North Carolina State University

Key Terms

Acid Dyes, Disperse Dyes, Forensics, HPLC, Mass Spectrometry, Polyester, SIMS, TOF

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