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

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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

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

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

**Key Terms**
- Cotton
- Dendrimer
- Fluorocarbon
- Repellency
- Wash Resistance

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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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