



## Peer Review Research

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### 1 Off Gas Measurements from FR Materials Exposed to a Flash Fire

By Mark Ackerman, Jane Batcheller, and Stephen Paskaluk, University of Alberta

#### Key Terms

Acids, Aramids, Cotton, Decomposition, Fire, Flame Resistance, Gases, Lyocell, Modacrylics, Protective Textiles, VOC

DOI: 10.14504/ajr.2.2.1

### 13 Study on Charge Distribution of Carboxymethylated Cotton Fabric by Streaming Potential/Current Measurements

By Zhengjia Wang, Peter J. Hauser, and Orlando J. Rojas, North Carolina State University

#### Key Terms

Carboxymethylated Cotton, Streaming Current, Streaming Potential, Surface Charges, Total Charges

DOI: 10.14504/ajr.2.2.2

### 20 Review: Potential Use of Plant Proteins and Feather Keratin as Sizing Agents for Polyester-Cotton

By Narendra Reddy, Jain University and Yiqi Yang, University of Nebraska-Lincoln, Lincoln

#### Key Terms

Biodegradation, Cotton, Feathers, Gluten, Keratin, Polyester, Proteins, PVA, Sizing, Soy

DOI: 10.14504/ajr.2.2.3

### 28 Sustainable Coloration of Jute Fabric using Natural Dyes with Improved Color Yield and Functional Properties

By S. N. Chattopadhyay, N. C. Pan, A. K. Roy, and A. Khan, National Institute of Research on Jute and Allied Fibre Technology, Indian Council of Agricultural Research; and B. Das, University of Calcutta

#### Key Terms

Fastness, Jute, Mordants, Natural Dyes, Sustainability

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