



Peer Review Research

1 Novel Treatment Route for Preparation and Characterization of Carboxymethyl Cellulose

By Pruthesh H. Vargantwar, Khushboo Mittal, Peter Hauser, and Brent Smith, North Carolina State University; and Mohammad Hashem, National Research Centre, Cairo

Key Terms

Anionic Cellulose, Carboxymethylation, Confocal Microscopy, Monochloroacetic Acid, SEM

DOI: 10.14504/ajr.1.1.1

6 Biosynthesized Silver Nanoparticles for Antibacterial Treatment of Cellulosic Fabrics Using O₂-Plasma

By M. S. Abdel-Aziz, B. M. Eid, and N. A. Ibrahim, National Research Centre, Cairo, Egypt

Key Terms

Antibacterial Finish, Biosynthesis, Cellulosic Substrates, O₂-plasma, Silver Nanoparticles

DOI: 10.14504/ajr.1.1.2

13 Factors Affecting Human Tactile Response to Wash-Treated Garments: Analysis of Fabric and Garment Effects in Dynamic Wear

By Roger Barker, Andrew Bernard, David Hinks, and Gail Liston, North Carolina State University; and Christopher Jones and Stephen Singleton, Unilever Research and Development

Key Terms

Clothing Wear Comfort, Fabric Hand, Subjective Evaluation Protocols, Tactile Comfort, Washing Effects

DOI: 10.14504/ajr.1.1.3

24 Chain Extender of Waterborne Polyurethanes Used for Warp Sizing

By Zhifeng Zhu, Jiangnan University, and Fujun Lv and Jack Lin, C&D (Wuxi) Biological Technology Co. Ltd.

Key Terms

Adhesion, Chain Extender, Film Properties, Warp Sizes, Waterborne Polyurethane

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