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Conductive Leather

by

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in Study unit Varaždin, Hallerova aleja 6a, 42000 Varaždin

Abstract:

Leather has limited uses in smart or advanced applications because it doesn't conduct electricity. This presentation is focused depositing a conductive polymer film onto a leather substrate to give leather electrical conductivity. Here it is used a single and double in situ polymerization method of pyrrole, to make it conductive. This process of polymerization with polypyrrole is done by using ferric chloride as oxidant and athraquinone sulfonic acid as a dopant in a baths. The treated leather are dyed with black color going through this polymerization method and show to have very good conductivity. Conductive leather can also find applications in manufacturing smart garments.

Key content:

- Different methods of producing conductive leather
- Methods of depositing a conductive polymer film on a leather substrate
- Double In situ polimerisation technique of pyrrole
- Different application of using conductive leather

Biography:



Majlinda Hylli, PhD is Lecturer at the Textile and Fashion Department, Polytechnic University of Tirana. She gain dipl. Ing. diploma in 2004 University of Tirana, Faculty of Natural Sciences, Department of General Chemistry; MSc in "Chemical analysis and identification of molecular structure with Instrumental methods in 2009 M.Sc. (second level) and PhD in Textile Engineering for 'Assessment of Albanian leather quality for footwear and environmental impact from its processing' in 2014 at Polytechnic University of Tirana Faculty of Mechanical Engineering.

She is Quality manager of physico-mechanical and chemical laboratory of textile and leather (Accredited according ISO 17025:2017).