Agri-2014
OMICS Group Conferences
Accelerating Scientific Discovery
2nd International Conference on
Agricultural & Horticultural Sciences
February 03-05, 2014 Hyderabad, India

Dyeing of jute with natural dyes with improved colour yield and UV protection properties

Sambhu Nath Chattopadhyay

National Institute of Research on Jute & Allied Fibre Technology, India

Abstract

A novel approach for upgrading the dyeing properties with natural dyes as well as UV protection function of the obtained dyeing was investigated. Jute fabric was premordanted with sequential treatment of biomordant (myrobolan and pomegranate) and ecofriendly chemical mordant (ferrous sulphate and potash alum). Extraction condition of natural dyes from manjistha, annatto, ratanjot and babool was standardised and applied on double premordanted jute fabric. Natural dyeing on myrobolan – ferrous sulphate mordanted fabric produces maximum colour yield as well as uniform and level dyeing. UV protection properties of jute fabric dyed with babool, ratanjot, annatto and manjistha produces very good rating after premordanting with sequential treatment of biomordant & chemical mordant. UV protection properties of natural dyes follows the order babool > annatto > manjistha > ratanjot.