

Dyeing Cotton with Dyes Extracted from Eucalyptus and Mango Trees

Authors : Tamrat Tesfaye, Bruce Sithole, K. Shabaridharan

Abstract : The use of natural dyes to replace synthetic dyes has been advocated for to circumvent the environmental problems associated with synthetic dyes. This paper is a preliminary study on the use of natural dyes extracted from eucalyptus and mango trees. Dyes extracted from eucalyptus bark gave more colourized material than the dyes extracted from eucalyptus leaves and mango pills and leaves. Additionally, the extracts exhibited a deeper colour shade. Cotton fiber dyed using the same dye but with different mordants resulted in fabric that exhibited different colours. It appears that natural dyes from these plants could be effective dyes for use on cotton fabrics especially considering that the dyes exhibited excellent colour fastness.

Keywords : natural dyes, mango, eucalyptus, cotton, mordants, colour fastness

Conference Title : ICTDTC 2017 : International Conference on Textile Dyeing Techniques and Coloration

Conference Location : Rome, Italy

Conference Dates : May 04-05, 2017