

Natural Dyeing on Wool Fabrics Using Some Red Rose Petals

Authors : Emrah Çimen, Mustafa Demirelli, Burcu Yılmaz Şahinbaşkan, Mahmure Üstün Özgür

Abstract : Natural colours are used on a large area such as textile, food and pharmaceutical industries by many researchers. When tannic acid is used together with metal salts for dyeing with natural dyes, antibacterial and fastness properties of textile materials are increased. In addition, the allergens are removed on wool fabrics. In this experimental work, some red rose petals were applied as a natural dye with three different dyeing methods and eight different mordant salts. The effect of tannic acid and different metal salts on dyeing of wool fabric was studied. Colour differences ΔE_{CMC} (2:1) and fastness properties of dyed fabrics were investigated and compared with each other. Finally, dark colours and adequate colour fastness results (4+) were obtained after dyeing of wool fabrics with $FeSO_4 \cdot 7H_2O$, $FeCl_3 \cdot 6H_2O$ and $CuCl_2 \cdot 2H_2O$ in the presence of the tannic acid.

Keywords : natural dye, red rose petals, tannic acid, mordant salts, wool fabric

Conference Title : ICTF 2015 : International Conference on Textiles and Fashion

Conference Location : Paris, France

Conference Dates : July 20-21, 2015