3. International Antalya Scientific Research and Innovative Studies Congress

February 13-14, 2023
Antalya, Türkiye



EDITOR

Assoc. Prof. Dr. Lindita Skenderi

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3. INTERNATIONAL ANTALYA SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES CONGRESS

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Assist. Prof. Dr. Alime SELÇUK TOSUN Tuba KÖSE	Selçuk University, TÜRKİYE	EXAMINATION OF INTERVENTION PROGRAMS TOWARDS PEER BULLYING IN ADOLESCENTS
Assist. Prof. Dr. Çiğdem SEVİM	Kastamonu University, Türkiye	INVESTIGATION OF THE EFFECT OF SUBCHRONIC LOW DOSE COMMERCIAL PESTICIDE APPLICATION ON OXIDATIVE STRESS IN RATS
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Prof. Dr. Ana Paula Monteiro Dr. Manuel Sousa Prof. Dr. Elisete Correia	University of Trás-os-Montes and Alto Douro, Portugal	ADDITION TO THE INTERNET IN PORTUGUESE UNIVERSITY STUDENTS: RELATIONSHIP BETWEEN ANXIETY, DEPRESSION AND STRESS
Dr. Irisi Beleraj Dr. Etis Jorgji	University of Tirana, Albania	ECONOMIC GROWTH AND UNEMPLOYMENT NEXUS: THE CASE OF WESTERN BALKAN COUNTRIES

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DYEING OF COTTON WITH ARJUN BARK (TERMINALIA ARJUNA)

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Abstract:

Using natural colorants in the modern world is the recent demand by the globe as an alternative to toxic synthetic colorants. For the current study, Arjun bark (Terminalia arjuna) has been explored to see its coloring potential for cotton. Fabric and extracts were prepared & stimulated using Gamma treatment for up to 6kGy. Shades were developed using the selected amount of chemical & bio-mordant & assessed for colorfastness as per ISO standards. The studies reveal that 50 mL of acidic extract from 4g of Arjun (Terminalia arjuna) powder of 5 pH when employed onto cotton at 85 °C for 45 min. has given excellent results. The results reveal that using optimum conditions, the particular amount of chemical and bio-mordants have not only given good color characteristics to cotton fabrics but also enhanced their fastness rating to light, washing, crocking, dry cleaning, and perspiration. Conclusively it is recommended that Gamma raycan be used to isolate colorant from Arjun (Terminalia arjuna) in suitable medium & bio-mordants should be preferred instead of chemical anchors at selected conditions to develop colorfast shades

Keywords: Arjun Bark, Cotton, Eco-frienfly mordants, Green Extraction, Sustianbaility

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SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES CONGRESS-III

ACCEPTANCE LETTER

01.03.2023
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