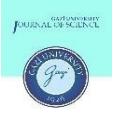


GAZİ UNIVERSITY  
JOURNAL OF SCIENCE



e-ISSN 2147-1762



Gazi University

## Journal of Science



<http://dergipark.gov.tr/guis>

### Owner

Prof. Dr. Musa YILDIZ

### Publishing Manager

Prof. Dr. Cevriye GENCER

### Editor in Chief

Prof. Dr. Deniz YÜZBAŞIOĞLU

### Managing Editor

Assoc. Prof. Dr. Bayram ÇEKİM

Assoc. Prof. Dr. Tarık ASAR

Assoc. Prof. Dr. Murat DENER

### Editors

Assoc. Prof. Dr. Özlem SAĞIROĞLU

Prof. Dr. Soofia Tahira ELIAS-OZKAN

Prof. Dr. Seza ARSLAN

Assoc. Prof. Dr. Ebru BEYZİ

Prof. Dr. Metin GÜRÜ

Prof. Dr. Suleyman KARACAN

Prof. Dr. Dilek VARIŞLI

Prof. Dr. Fatma ARSLAN

Prof. Dr. Serap BEŞLİ

Prof. Dr. Seyhan FIRAT

Prof. Dr. Namık Kemal ÖZTORUN

Prof. Dr. M. Ali AKCAYOL

Assoc. Prof. Dr. Murat DENER

Assoc. Prof. Dr. Tolga OVATMAN



Gazi University

## Journal of Science



<http://dergipark.gov.tr/guis>

Prof. Dr. M. Timur AYDEMİR

Prof. Dr. Erdal IRMAK

Prof. Dr. Sedat SÜNTER

Prof. Dr. Mustafa İLBAŞ

Prof. Dr. İlker YILMAZ

Assoc. Prof. Dr. Serhat KARYEYEN

Assoc. Prof. Dr. Hakan ÇERCİOĞLU

Assoc. Prof. Dr. Eren ÖZCEYLAN

Assoc. Prof. Dr. Uğur GÖKMEN

Asst. Prof. Dr. Hanifi ÇİNİCİ

Assoc. Prof. Dr. Arif UZUN

Assoc. Prof. Dr. Gurhan İÇÖZ

Assoc. Prof. Dr. Can KIZILATES

Prof. Dr. Nuri YÜCEL

Prof. Dr. İhsan KORKUT

Assoc. Prof. Dr. Şener KARABULUT

Prof. Dr. Süleyman ÖZÇELİK

Assoc. Prof. Dr. Burhan COŞKUN

Prof. Dr. H. Hasan ÖRKCÜ

Prof. Dr. Gamze ÖZEL



Gazi University

## Journal of Science



<http://dergipark.gov.tr/guis>

### Editorial Advisory Board

Adjunct Prof. Dr. Chada S. REDDY

Prof. Dr. Shahin ZARRE

Prof. Dr. Imran ALI

Prof. Dr. Michael GREEN

Prof. Dr. Yoel SASSON

Prof. Dr. Jamal KHATIB

Prof. Dr. Ajith ABRAHAM

Prof. Dr. Adel NASIRI

Prof. Dr. Giri VENKATARAMANAN

Prof. Dr. Iván Area CARRACEDO

Prof. Dr. Donal O'REGAN

Prof. Dr. NASEER SHAHZAD

Prof. Dr. Gradimir V. MILOVANOVIĆ

Prof. Dr. K. PALANIKUMAR

Prof. Dr. Elias STATHATOS

Prof. Dr. Farid EL-TANTAWY

Prof. Dr. Naoyuki AMEMIYA

Prof. Dr. Abdulmalik A. Al- GHAMDI



Gazi University

## Journal of Science



<http://dergipark.gov.tr/guis>

Asst. Prof. Dr. Ram K. GUPTA

Prof. Dr. Narayanaswamy BALAKRISHNAN

Prof. Dr. Debasis KUNDU

Prof. Dr. Gauss M. CORDEIRO

Dr. Abdel-Salam GOMAA

Prof. Dr. Olga BATTIA

Prof. Dr. Kannan GOVINDAN

### Technical Assistant

Busenaz TUNCAY

Fatma OKUŞ

Res. Asst. Ebru Melis ÖZDEMİR

Res. Asst. Muhsin Selçuk SATIR

Res. Asst. Semih SOLAK

Res. Asst. Zeynep Kamile MUMCUOĞLU

## Contents

<b>Pages</b>	<b>Articles</b>	<b>Type</b>
311-325	Phylogenetic Analysis of <i>Origanum vulgare</i> and Its Antioxidant and Antimicrobial Activity	Research Article
327-333	Some Biological Activities of the Moss <i>Brachythecium populeum</i> (Hedw.) Bruch, Schimp. & W.Gumbel ( <i>Bryophyta</i> )	Research Article
335-353	Optimization of Endo-Pectinase and Pectin Lyase Production from Wheat Bran by <i>Bacillus pumilus</i> using Response Surface Methodology	Research Article
355-368	Thermochemical Conversion Behavior of Turkish Lignite/Poppy Capsule Pulp Blends in N <sub>2</sub> and CO <sub>2</sub> Atmospheres	Research Article
370-379	A speedy method for simultaneous determination in tablet active content by NIR and UV-Vis spectrophotometry: Comparison of PLS-1 and ICA-ANN models	Research Article
381-394	Electromagnetic Shielding Effectiveness of Polyaniline/Modified-Poly(vinyl Alcohol) Film Composite	Research Article
396-404	Evaluation of Arsenic Concentration in Poultry and Calf Meat Samples by Hydride Generation Atomic Fluorescence Spectrometry	Research Article
406-421	Greener Approach to Synthesis of Steady Nano-sized Gold with the Aqueous Concentrate of <i>Cotinus Coggygria</i> Scop. Leaves	Research Article
423-437	Feasibility of Offshore Wind Energy in Turkey; A Case Study for Gulf of Edremit at the Aegean Sea	Research Article
439-454	Comparison of Three Different Learning Methods of Multilayer Perceptron Neural Network for Wind Speed Forecasting	Research Article
456-475	Design and Implementation of a Simple and Efficient Control Strategy for PVEs	Research Article
477- 491	On Quasi-Hemi-Slant Riemannian Maps	Research Article
493-504	Some Identities of Harmonic and Hyperharmonic Fibonacci Numbers	Research Article
506-515	Investigating the Effects of Forming Parameters on Molding Force and Springback in Deep Drawing Process of Thermoplastic Composite Laminates	Research Article

517-527	Particle Swarm Optimization Method Based Controller Tuning for Adaptive Cruise Control Application	Research Article
529-548	Estimation of Structural and Optical Parameters of (Mg, B) co-doped ZnO Nanoparticles	Research Article
550-560	Estimation of Theoretical Models of Photophysical Processes for Fluorescein Laser Dye with Ag Nanoparticles	Research Article
562-577	Bayesian Estimation of the Shape Parameter of Lomax Distribution under Uniform and Jeffery Prior with Engineering Applications	Research Article
579-590	Estimation in Step-Stress Partially Accelerated Life Tests for the Power Lindley Distribution Under Progressive Censoring	Research Article
592-609	Selecting the Best Normalization Technique for ROV Method: Towards a Real Life Application	Research Article