

ERZİNCAN UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY

ISSN: 1307-9085, e-ISSN: 2149-4584

EDITOR IN CHIEF

Assoc. Prof. Dr. Kemal Volkan ÖZDOKUR
Erzincan Binali Yıldırım University

ASSOCIATE EDITORS

Assoc. Prof. Dr. Özlem BARAN ACIMERT
Erzincan Binali Yıldırım University

Ass. Prof. Dr. Fidan ERDEN KARAOĞLAN
Erzincan Binali Yıldırım University

EDITORIAL BOARD

Prof. Dr. Ali Ercan EKİNCİ

Erzincan Binali Yıldırım University

Prof. Dr. Bülent ÇAĞLAR

Erzincan Binali Yıldırım University

Prof. Dr. Suat ÇOLAK

Erzincan Binali Yıldırım University

Prof. Dr. Yeşim KARASULU

Ege University

Assoc. Prof. Dr. Fulya ASLAY

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Agah Oktay ERTAY

Erzincan Binali Yıldırım University

Assoc. Prof. Dr. Neşe ERTUGAY

Erzincan Binali Yıldırım University

Prof. Dr. Salih DOĞAN

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Emre YAVUZ

Erzincan Binali Yıldırım University

Doç. Dr. Tuba AKKUŞ

Erzincan Binali Yıldırım University

Doç. Burcu BOZKURT ÇIRAK

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Vael HAJAHMAD

Erzincan Binali Yıldırım University

Prof. Dr. Süleyman KOÇAK

Manisa Celal Bayar University

Assoc. Prof. Dr. Özgür ARAR

Ege University

**Ass. Prof. Dr. Burçin
TÜRKMENOĞLU**

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Mehmet KUZUCU

Erzincan Binali Yıldırım University

Assoc. Prof. Dr. Tülay ERİŞİR

Erzincan Binali Yıldırım University

Prof. Dr. Öztekin ALGÜL

Mersin University

Ass. Prof. Dr. İrem BOZBEY MERDE

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Arif Onur EDEN

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Mert KARAOĞLAN

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Ali CELEN

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Mehmet Kürşat ÖKSÜZ

Erzincan Binali Yıldırım University

Ass. Prof. Dr. Deniz ELMACI

Dokuz Eylül University

Assoc. Prof. Dr. İsmail TONTUL

Necmettin Erbakan University

Ass. Prof. Dr. Ülgen İlknur KONAK

Avrasya University

Ass. Prof. Dr. Fundagül EREM

Zonguldak Bülent Ecevit University

Ass. Prof. Dr. Takaichi WATANABE

Okayama University

**Ass. Prof. Dr. Ayşenur KELEŞ
DAYAUÇ**

Hitit University

Assoc. Prof. Dr. Aykut ÖZGÜR

Tokat Gaziosmanpaşa University

Ass. Prof. Dr. M. Mustafa ÇETİN

Kadir Has University

Res. Ass. Zehra ÖKSÜZ

Mersin University

**Assoc. Prof. Dr. Kemal
BUHARALIOĞLU**

İzmir Katip Çelebi University

**Assoc. Prof. Dr. Hayrettin Ozan
GÜLCAN**

Eastern Mediterranean University

Prof. Dr. Seyhan ŞAHAN FIRAT

Mersin University

Marin MARİN

Transylvania University of Braşov

Sorin VLASE

Transylvania University of Braşov

Prof. Dr. Alper SEZER

Ege University

AIMS AND SCOPE

The aim of the **Erzincan University Journal of Science and Technology** is to publish original research articles and reviews made in the fields of Science, Engineering in order to create a quality academic contribution in these fields.

Research areas covered in the journal:

- Physics, Chemistry, Biology, Mathematics and related areas
- Mechanical, Electrics-Electronics, Civil and related engineering areas
- Health sciences and related areas

Open Access Policy

Erzincan University Journal of Science and Technology is an open access journal which means that all content is freely available without charge to the user or his/her institution. Users are allowed to read, download, copy, distribute, print, search, or link to the full texts of the articles, or use them for any other lawful purpose, without asking prior permission from the publisher or the author. Erzincan University Journal of Science and Technology signed the Budapest Open Access Declaration (<https://budapestopenaccessinitiative.org/>).

Editor in chief: Doç. Dr. Kemal Volkan ÖZDOKUR

Address: Department of Chemistry, Erzincan Binali Yıldırım University, Erzincan, Türkiye.

E-mail: fbedergierzincan@gmail.com

Publisher: Erzincan Binali Yıldırım University

Address: Erzincan Binali Yıldırım University, Erzincan, Türkiye.

RESEARCH ARTICLES:

Page	Manuscript Title Authors
608-614	Evaluation of Hematological Parameters in Differentiating Central and Peripheral Vertigo in Patients with Vertigo Orhan TANRIVERDİ and Zeynep ÇAKIR
615-632	Posaconazole Loading and Release Behavior in Surface-Modified Mesoporous Silica Nanoparticulate System Hilal ERKAN Ceren KEÇECİLER-EMİR Cem ÖZEL Sevil YÜCEL
633-642	An environmentally friendly microextraction method for the determination of cadmium in water samples Oya AYDIN URUCU
643-653	The Effect of the Distance Between Unit Cells on the Frequency Stability of Frequency Selective Surfaces Bora DÖKEN
654-671	Green Synthesis and Characterization of Silver Nanoparticles (AgNPs) and L-cysteine-capped AgNPs with Foeniculum vulgare seed extract for Colorimetric Hg²⁺ Detection Deniz UZUNOĞLU DOĞRUYOL
672-686	Development, Characterization and In-vitro Evaluation of Solid Self-Emulsifying Drug Delivery Systems (S-SEDDS) Containing Valsartan Mine DİRİL <i>etal.</i>
687-713	The Efficiency of Chamomile in Crystal Violet Dye Removal Processes Sahra DANDIL
714-730	Potentiometric Monitoring of Iodide Ions Using a Highly Selective Iodide Sensor Based on AgI-Cu₂S-Multi Walled Carbon Nano Tube Material Cihan TOPCU, <i>etal.</i>
731-743	Simultaneous Determination of Sodium, Potassium, Calcium, Nickel, Chromium, Iron and Zinc in Cathodic Electrodeposition Primers by Using ICP-OES Yalım TOSCALI Ayça BİÇEN
744-755	Determination of the Natural Frequency Change of Different Bayburt Stone (Tüfit) Sizes During the Transportation in the Screw Conveyor Engin ERBAYRAK Burhan KIRAR
756-781	Geotechnical Preliminary Design of Onshore Wind Turbine Foundations Hasan Emre DEMİRÇİ
782-799	Analyzing of Total Number of Railway Accidents in Türkiye via Different Computational Models Ziya ÇAKICI, <i>etal.</i>
800-810	Effect of Drought Acclimation on Drought Stress Resistance in Okra Seedlings Ümit TORUN, <i>etal.</i>

- 811-825 **Characterization of Pomological and Physicochemical Properties of Zivzik and Pervari Pomegranate Genotypes Grown in Siirt Province**
Ebru SAKAR, et al.
- 826-839 **Antimicrobial and Antioxidant Properties of Coriander (*Coriandrum sativum* L.), Dill (*Anethum graveolens* L.) and Purslane (*Portulaca oleracea* L.) Extracts Prepared with Different Types of Solvent**
Sümeyra TAŞ, et al.
- 840-853 **Design of a Novel Electrochemical Immunosensor for *Toxoplasma gondii* Detection Based on Gold Nanoparticle/Chitosan Decorated Screen Printed Electrode**
Serdar ŞANLI
- 854-868 **Synthesis, Antibacterial Activity and Molecular Modelling of Benzyl Acetate Derivatives**
Bilal UMAR, et al.
- 869-887 **Estimation of Critical Buckling Loads of Hybrid Composites in Different Environments using Artificial Neural Networks**
Ayla TEKİN, et al.
- 888-898 **A Study on Determination of Natural Radionuclide Concentrations in Tap Water Samples Collected from the Districts of Sinop Province, Türkiye**
Serdar DİZMAN
- 899-917 **Effects of Osmotic Drought and GA3 Applications on Germination, Seedling Growth and Mitotic Index of Rye**
Erdal Eren YELER, et al.
- 918-927 **Determination of Yield and Quality Characteristics of Some Strawberry Varieties in Uşak Ecological Conditions**
Ayşen ÇOLAK
- 928-939 **Wideband Polarization Conversion Based on Elliptical-Shaped Metasurface for X-Band Applications**
Aykut COŞKUN, et al.
- 970-979 **Microstructure and Some Mechanical Properties of AISI 630 Stainless Steel Hardened by Precipitation Hardening**
Adnan ÇALIK, Nazım UÇAR

REVIEW ARTICLE:

Page	Manuscript Title	Authors
940-969	Machine Learning Deep Learning in Rheumatological Screening A Systematic Review	<i>Zehra Aysun ALTIKARDEŞ et al.</i>