

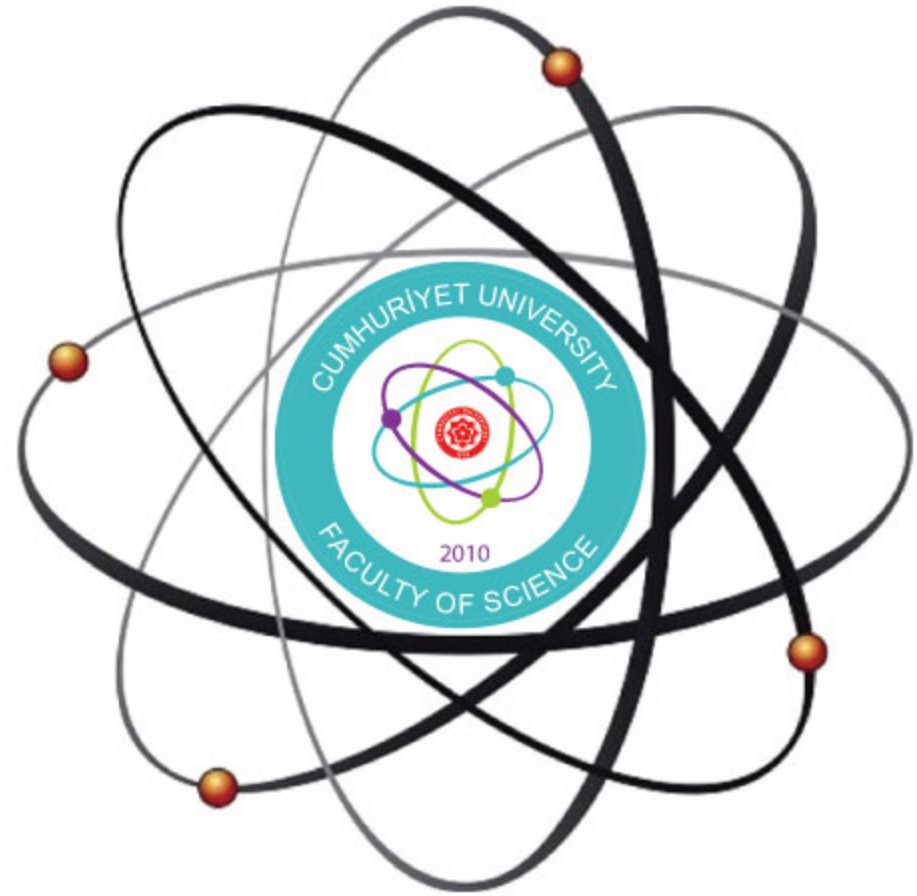


Cumhuriyet University

ISSN : 2587-2680

e-ISSN : 2587-246X

Cumhuriyet Science Journal



Volume : 39

Number : 1

Year : 2018



ISSN: 2587-2680
e-ISSN:2587-246X
Period: Quarterly
Founded: 2002
Publisher: Cumhuriyet
University

Cumhuriyet Science Journal (CSJ)

Derginin Eski Adı: Cumhuriyet Üniversitesi Fen-Edebiyat Fakültesi Fen Bilimleri Dergisi

Eski ISSN: 1300-1949

Baş Editör / Editor-in-Chief:

Prof.Dr. İdris ZORLUTUNA

Yazı İşleri Müdürü/ Managing Editor:

Assist.Prof.Dr. Adil ELİK

Editörler / Editors:

Assoc.Prof.Dr. Baki KESKİN

Assoc.Prof.Dr. Nilüfer TOPSAKAL

Assoc.Prof.Dr. Serkan AKKOYUN

Assoc.Prof.Dr. Hülya KURŞUN

Assoc. Prof. Dr. Birnur AKKAYA

Assist.Prof.Dr. Adil ELİK

Assist.Prof.Dr. Nüket KARTAL TEMEL

Akademik Dizin / Abstracted/Indexed in

Ulakbim TR-Dizin

Akademik Dizin

Arastirmax Bilimsel Yayın İndeksi

Bielefeld Academic Search Engine (BASE)

Directory of Open Access Journals (DOAJ)

Directory of Research Journal Indexing (DRJI)

Google Scholar

Index Copernicus

Research Gate

Thomson Reuters Zoological

WorldCat



CUMHURİYET SCIENCE JOURNAL

Section Editors:

Prof.Dr. Sezai ELAGÖZ

Assoc.Prof.Dr. Muhammet BEKÇİ

Assoc.Prof.Dr. Duran KARAKAŞ

Assist.Prof.Dr. Yaşar ÇAKMAK

Assist.Prof.Dr. Sevgi DURNA DAŞTAN

Editorial Board:

Prof.Dr. Mustafa SOYLAK (Erciyes University)

Prof.Dr. Münevver SÖKMEN (KGTU)

Prof.Dr. Hüseyin MERDAN (TOBB ETU)

Prof.Dr. Chuan Fu Yang (Nanjing University of Science and Technology)

Prof.Dr. Mehmet AKKURT (Erciyes University)

Prof.Dr. Mustafa KAVUTÇU (Gazi University)

Prof.Dr. Mustafa TÜZEN (GOP University)

Prof.Dr. Ali Fazıl YENİDÜNYA (Cumhuriyet University)

Prof.Dr. Songül KAYA MERDAN (METU)

Prof.Dr. Yeşim SAĞ AÇIKEL (Hacettepe University)

Prof.Dr. Mehmet ŞİMŞİR (Cumhuriyet University)

Prof.Dr. Atalay SÖKMEN (KGTU)

Prof.Dr. Ramazan GÜRKAN (Cumhuriyet University)

Dr. Ricardo I. Jeldres (Universidad de Antofagasta)

Assoc.Prof.Dr. Mustafa YILDIRIM (Cumhuriyet University)

Assoc.Prof.Dr. Ali DELİCEOĞLU (Erciyes University)

Assoc.Prof.Dr. Tuncay BAYRAM (Sinop University)

Assoc.Prof.Dr. Gökhan KOÇAK (Erciyes University)

Dr. Francois Vos (The University of Queensland)

Proofreader:

Assist.Prof.Dr. Tuğba MERT

Research Assistant Dr. Koray SAYIN

Layout Editors:

Research Assistant Esra Merve YILDIRIM

Abdullah SAYIR

Copyeditors:

Research Assistant Abdulkadir ŞEKER

Research Assistant Özgür İNCE

Research Assistant Doğa Can SERTBAŞ

Secretariat-Communication:

Research Assistant Hacı Ahmet KARADAŞ

Publication Type. Peer Reviewed Journal

Cite Type: Cumhuriyet Sci. J.

Contact Information

Faculty of Science Cumhuriyet University 58140
Sivas- TURKEY

Phone: +90(346)2191010-1522

Fax: +90(346)2191186

e-mail: csj@cumhuriyet.edu.tr

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

CONTENTS

PAGES

Koray YILMAZ

A Fibration Application for Crossed Squares..... 1-6

Nuh DURNA, Mustafa YILDIRIM, Rabia KILIÇ

Partition of the Spectra for the Generalized Difference Operator $B(r,s)$ on the Sequence Space cs 7-15

Mosab Jaser BANISALMAN, Takuji ODA

Iron Interstitial Defects Stability: Under the Uniaxial Stress Effect..... 16-22

Deniz BİNGÖL, Seda KARAYÜNLÜ BOZBAŞ, Ümit AY, Nevin UZGÖREN

Chemometric Evaluation of the Heavy Metal Contents in Surface Soils from the Dilovası Region (Kocaeli/Turkey)..... 23-33

Murat CANDAN

A New Outlook for Almost Convergent Sequence Spaces..... 34-46

Pelin ÖZKARTEPE

Uniform and Pointwise Polynomial Estimates in Regions with Interior and Exterior Cusps..... 47-65

Tunay KARAN, Faik GÖKALP, Ramazan ERENLER

*Theoretical Study on Flavonoids Isolated from *Allium vineale**..... 66-70

Hatice KUŞAK SAMANCI

Some Geometric Properties of The Spacelike Bezier Curve with a Timelike Principal Normal in Minkowski 3-Space..... 71-79

Dorina ARANGHEL, Doina STANCIU, Chivuta-Ramona BADITA, Ana STOCHIOIU, Ion TUDOR

Technical Aspects of the Quality Management System (QMS) for the Radiation Dosimetry Laboratory at ELI-NP Facility..... 80-86

Sevim BİLİCİ, MiraÇ KAMIŞLIOĞLU, Ahmet BİLİCİ, Fatih KÜLAHCI

Forecasting of Ra-226, Th-232 and U-238 Concentrations using Artificial Neural Networks (ANNs)..... 87-94

Yener ÜNAL, Muhammet BEKÇİ

Statistical Estimation for the Weibull Distribution Under Progressive Type-I Interval Censoring with Part-Time Operator..... 95-104

Ayhan ÜNGÖRDÜ

Investigation of NLO Properties of Pyridine Benzimidazole Derivatives: Ab-Initio Approach..... 105-117

S. KAIM, A. ABOUDI, R. BELGHARBI, A. LAALA

Shell Closure $N = 82$ nuclei interpretation by the Cranked Nilsson-Strutinsky Model: $^{136-138}\text{Ce}$ 118-126

Tülay AŞKIN ÇELİK, Özlem Sultan ASLANTÜRK

*Cytotoxic and Genotoxic Effects of Aqueous Extracts of *Rosmarinus officinalis L.*, *Lavandula stoechas L.* and *Tilia cordata Mill.* on in vitro Human Peripheral Blood Lymphocytes*..... 127-143

Zeynep AYGÜN

Application of Spectroscopic Methods for Analysis of Ni-Based Alloys ($\text{Ni}\% \geq 70$)..... 144-151

Zahide ŞAHİN, Serdar KOCA

Determination of the Genotoxicity of the Soil in the Aydın Region Irrigated by Büyük Menderes River by the Allium Test System..... 152-161

Fatima Zohra CHEMINGUI, Fatima BENRACHI

Simulation by Geant4 of Hadrontherapy Beam Line..... 162-168

Buğrahan EMSEN, Ali ASLAN, Abdullah KAYA <i>Cladonia furcata (Huds.) Schrad.'nın İnsan Periferel Lenfositleri Üzerindeki Sitotoksik, Genotoksik ve Oksidatif Etkileri</i>	169-180
Zeynep Mine HASDEMİR, Selçuk ŞİMŞEK <i>Removal of Cationic Dye in Aquatic Medium by Using a New Composite Material</i>	181-191
Robson Fernandes de FARIAS, Savaş KAYA <i>Lattice Energies for Groups 1 and 2 Halides from Absolute Hardness</i>	192-195
C. KOURTELI, F. BENRACHI <i>Evaluation of dosimetric impact of Flattening Filter-Free(FFF) Photon Beams in 3D conformal radiotherapy</i>	196-200
Halit KIZILET, Handan UYSAL <i>Neonikotinoidler ile İnsan Lenfositlerinde Genotoksitenin Uyarılması</i>	201-210
Miraç KAMIŞLIOĞLU, Sevim BİLİCİ, Fatih KÜLAHCI <i>Fuzzy Logic Application for Explain Relationships Between ²²²Rn Concentration and Earthquakes</i>	211-217
Cemalettin UYAN, Ersin BEKÇIOĞULLARI <i>Preconcentration of Iron in Some Drug and Water Samples by Coprecipitation with Magnesium Hydroxide Before Spectrophotometric Determination.</i>	218-232
İsrafil KÜÇÜK <i>Effect of Cold Rolling Reduction Rate on Corrosion Behaviour of Twin-roll Cast 8006 Aluminium Alloys</i>	233-242
Tahsin BOYRAZ <i>Thermal Properties and Microstructural Characterization of Aluminium Titanate (Al₂TiO₅) / La₂O₃ –Stabilized Zirconia (ZrO₂) Ceramics</i>	243-249
Murat FARSAK <i>A New Spherical Catalyst for Hydrogen Evolution Reaction</i>	250-257
Dilek TAYLAN, Tuba AYDIN <i>The Trend Analysis of Lakes Region Precipitation Data in Turkey</i>	258-273
Muhammet DEVECİ <i>An Integrated TOPSIS, GRA and VIKOR Based on Interval Type-2 Fuzzy Method to Improve Customer Satisfaction in Public Transportation</i>	274-293
Serdar KOCKANAT, Serkan KOCKANAT <i>Analysis and Extraction of Fetal Electrocardiogram Signal with Adaptive Filtering Using Differential Evolution Algorithm</i>	294-302