

JSR A

JOURNAL OF SCIENTIFIC REPORTS A

E-ISSN: 2687 - 6167
Number 46
June 2021

JOURNAL OF SCIENTIFIC REPORTS A - JUNE 2021 - NUMBER 46



Kutahya Dumlupınar University Scientific Reports A
Evliya Celebi Campus Tavsanlı Road 10 KM. 43270 Kutahya
Phone : 0274 443 18 12
E-mail : joursra@gmail.com
gsjsra.com

Dumlupınar University Press

gate of
science

Kütahya Dumlupınar University
Institute of Graduate Studies



Journal of Scientific
Reports-A

E-ISSN: 2687-6167

Number 46, June 2021

Owner

On Behalf of Kütahya Dumlupınar University
Prof. Dr. Kazım UYSAL (Rector),
On Behalf of Institute of Graduate Studies
Prof. Dr. Şahmurat ARIK(Director)

Editorial Board

Prof. Dr. Önder UYSAL
Prof. Dr. Cengiz YENİKAYA
Prof. Dr. Cengiz KARAGÜZEL
Prof. Dr. Gürsel YANIK
Assoc. Prof. Cemal PARLAK
Assoc. Prof. Nevzat BEYAZIT
Assoc. Prof. Levent URTEKİN
Assoc. Prof. Dr. Fatih ŞEN
Assist. Prof. Ümran ERÇETİN

Kütahya Dumlupınar University/ Mining Engineering
Kütahya Dumlupınar University/ Chemistry
Kütahya Dumlupınar University / Mining Engineering
Kütahya Dumlupınar University / Geological Eng.
Ege University / Physics
Ondokuz Mayıs University / Enviromental Eng.
Ahi Evran University / Mechanical Eng.
Kütahya Dumlupınar University / Biochemistry
Kütahya Dumlupınar University / Mechanical Eng.

Journal of Scientific Reports-A started its publication life in 2000 as name of Journal of Science and Technology of Dumlupınar University and is a national peer-reviewed journal published regularly twice a year in June and December. The language of the journal is English. Articles submitted to the journal are evaluated by at least two referees who are experts in the subject and selected by the editorial board. All articles submitted to the journal are evaluated by the double-blind method. Articles submitted to our journal for review should not be previously published, accepted for publication and in the process of being evaluated for publication in another journal. All responsibility for the articles published in the journal belongs to the author(s).

The journal aims to share scientific studies carried out in the fields of science and engineering at national and international level with scientists and the public. Original research articles, review articles and short notes in science and engineering disciplines are accepted for the journal. Original research articles are expected to contain theoretical and experimental results and should not be published in other journals. In the review articles, it is expected that scientific, technological and current developments on a specific subject are reflected by using an extensive bibliography and made a satisfying evaluation of these. Short notes should be brief writings prepared to announce the first findings of an original study.

Correspondence Address: Kütahya Dumlupınar Üniversitesi Evliya Çelebi Yerleşkesi Fen Bilimleri Enstitüsü
43270 KÜTAHYA

Phone: 0 274 443 18 12

E-mail: joursra@gmail.com

Fax: 0 274 265 20 60

Webpage: gsjsra.com

Section Editors

Civil Engineering Prof. Dr. M. Çağatay KARABÖRK	Kütahya Dumlupınar University
Mechanical Engineering Prof. Dr. Ramazan KÖSE	Kütahya Dumlupınar University
Electrical-Electronics Engineering Assist. Prof. Kadir VARDAR	Kütahya Dumlupınar University
Computer Engineering Assoc. Prof. Doğan AYDIN	Kütahya Dumlupınar University
Industrial Engineering Assist. Prof. Üyesi Kerem CİDDİ	Kütahya Dumlupınar University
Mining Engineering Assist. Prof. Uğur DEMİR	Kütahya Dumlupınar University
Geology Engineering Assist. Prof. Muzaffer ÖZBURAN	Kütahya Dumlupınar University
Metallurgical and Materials Engineering Prof. Dr. İskender IŞIK	Kütahya Dumlupınar University
Food Engineering Prof. Dr. Muhammet DÖNMEZ	Kütahya Dumlupınar University
Environmental Engineering Doç. Dr. Nevzat BEYAZIT	Ondokuz Mayıs University
Mathematics Assist. Prof. Cansu KESKİN	Kütahya Dumlupınar University
Physics Assoc. Prof. Huriye Sanem AYDOĞU	Kütahya Dumlupınar University
Chemistry Assoc. Prof. Bülent ZEYBEK	Kütahya Dumlupınar University
Biology Assist. Prof. Nüket Akalın BİNGÖL	Kütahya Dumlupınar University
Biochemistry Assoc. Prof. Derya KOYUNCU ZEYBEK	Kütahya Dumlupınar University
Occupational Health and Safety Prof. Dr. Cem ŞENSÖĞÜT	Kütahya Dumlupınar University

Advisory Board

Prof. Dr. Sibel AKAR	Eskişehir Osmangazi University / Chemistry
Prof. Dr. Abdurrahman AKTÜMSEK	Selçuk University/ Biology
Prof. Dr. Mustafa ALTUNOK	Gazi University / Tree-Jobs Industrial Engineering
Prof. Dr. Uğur ARİFOĞLU	Sakarya University / Electrical and Electr. Engineering
Prof. Dr. Oktay ARSLAN	Balıkesir University / Chemistry
Prof. Dr. Şükrü ASLAN	Sivas Cumhuriyet University / Environmental Engineering
Prof. Dr. Ülfe ATAV	Selçuk University / Physics
Prof. Dr. Mustafa BAYRAKTAR	TOBB Ekonomi ve Teknoloji University / Mathematics
Prof. Dr. Niyazi BİLİM	Konya Technical University / Mining Engineering
Prof. Dr. İsmail BOZTOSUN	Akdeniz University / Physics
Prof. Dr. Erdal ÇELİK	Dokuz Eylül University / Metallurgical and Material Eng.
Prof. Dr. Hayri DAYIOĞLU	Kütahya Dumlupınar University / Biology
Prof. Dr. Muhammet DÖNMEZ	Kütahya Dumlupınar University / Food Engineering
Prof. Dr. Mehmet Ali EBEOĞLU	Kütahya Dumlupınar University / Elec.and Electr. Eng.
Prof. Dr. İsmail Göktaş EDİZ	Kütahya Dumlupınar University / Mining Engineering
Prof. Dr. İsmail EKİNCİOĞLU	Kütahya Dumlupınar University / Mathematics
Prof. Dr. Kaan ERARSLAN	Kütahya Dumlupınar University / Mining Engineering
Prof. Dr. Zeynal Abiddin ERGÜLER	Kütahya Dumlupınar University / Geological Eng.
Prof. Dr. Seyhan FIRAT	Gazi University / Civil Engineering
Prof. Dr. Remzi GÖREN	Sakarya University / Metallurgical and Material Eng.
Prof. Dr. Rasim İPEK	Ege University / Mechanical Engineering
Prof. Dr. Refail KASIMBEYLİ	Eskişehir Technical University / Industrial Engineering
Prof. Dr. Hamdi Şükür KILIÇ	Selçuk University / Physics
Prof. Dr. Yaşar KİBİCİ	Bilecik Şeyh Edebali University / Geological Eng.
Prof. Dr. İsmail KOCAÇALIŞKAN	Yıldız Technical University / Molecular Bio. and Gen.
Prof. Dr. Mahmut KOÇAK	Eskişehir Osmangazi University / Math-Computer
Prof. Dr. Muhsin KONUK	Üsküdar University / Molecular Biology and Gen.
Prof. Dr. Mustafa KURU	Başkent University / Molecular Biology and Gen.
Prof. Dr. Ömer İrfan KÜFREYOĞLU	Atatürk University / Biochemistry
Prof. Dr. Halim MUTLU	Ankara University / Geological Engineering
Prof. Dr. Ekrem SAVAŞ	İstanbul Ticaret University / Mathematics
Prof. Dr. Murat TANIŞLI	Eskişehir Technical University / Physics
Prof. Dr. Ali Rehber TÜRKER	Gazi University / Chemistry
Prof. Dr. Mustafa TÜRKMEN	Giresun University / Biology
Prof. Dr. Abdülmecit TÜRÜT	İstanbul Medeniyet University / Physics Engineering
Prof. Dr. Eşref ÜNLÜOĞLU	Eskişehir Osmangazi University / Civil Engineering
Prof. Dr. Nurettin YAYLI	Karadeniz Technical University / Pharmacy
Prof. Dr. Yusuf YAYLI	Ankara University / Mathematics
Prof. Dr. Elçin YUSUFOĞLU	Uşak University / Mathematics
Prof. Dr. Hüseyin Serdar YÜCESU	Gazi University / Automotive Engineering
Prof. Dr. Mehmet Tevfik ZEYREK	Middle East Technical University / Physics

JOURNAL OF SCIENTIFIC REPORTS-A
E-ISSN: 2687-6167

CONTENTS

RESEARCH ARTICLES

- Development of an Experiment Set for Embedded System Education and Analyzing Its Contribution*** 1-13
Batıkan Erdem DEMİR*, Funda DEMİR
- The Effect of the Data Type on Anfis Results, Case Study Temperature and Relative Humidity*** 14-33
Pinar Bakhtiyar Abdulkareem SALIHI, Nadire UCLER*
- Investigation of Attack Types in Android Operating System*** 34-58
Durmuş ÖZDEMİR*, Hande ÇAVŞI ZAİM
- Alien Vertebrates and Vertebrate Pests in Turkey with An Overview of Rodent Management*** 59-80
Nuri YİĞİT, Saniye Cevher ÖZEREN, Fulya SAYGILI YİĞİT, Ercüment ÇOLAK, Nursel GÜL, Derya ÇETİNTÜRK*
- The Effect of Nitrogen Fixing Asymbiotic Bacteria Fertilizer on Nutrient Contents and Some Agronomic Properties of Corn Plant*** 81-97
Özkan YARDIMCI, Hüseyin YENER*
- Histological Study of Stomach of Lyciasalamandra Fazilae and Lyciasalamandra Flavimembris*** 98-105
Müge GİDİŞ*