

FASJS

Faculty of Arts and Science Journal of Science



SÜLEYMAN DEMİREL
UNİVERSİTY



Süleyman Demirel University
Faculty of Arts and Sciences
Journal of Science

Volume

18

Issue

3

Year

2023

e-ISSN

1306-7575

Journal Boards

Privilige Owner

Prof. Dr. Mehmet Ali TABUR

Editor-in-Chief

Assoc. Prof. Dr. Raşit ÇALIŞKAN

Section Editors

Prof. Dr. Duygu ARUĞASLAN ÇİNÇİN Prof. Dr. Fatih UCUN Assoc. Prof. Dr. Raşit ÇALIŞKAN Prof. Dr. Melek ZEYBEK YÜNLÜ

Advisory Board

Prof. Dr. Abdullah AYDIN

Prof. Dr. Alexander VASİN

Prof. Dr. Bayram ŞAHİN

Prof. Dr. Ekrem SAVAŞ

Prof. Dr. Gerhard WEBER

Prof. Dr. İzzet ŞENER

Prof. Dr. Nazan ÜZÜM

Prof. Dr. Mohamed BELGAID

Prof. Dr. Orhan KARABULUT

Prof. Dr. Oscar J. GARAY

Prof. Dr. Selma ÖZÇAĞ

Prof. Dr. Yogesh Chandra SHARMA

Prof. Dr. Hasan GENÇ

Prof. Dr. Özgür EMİROĞLU

Dr. Diogo PINHEIRO

Dr. Anna FARKAS

Dr. Julia Puseletso MOFOKENG

Dr. Zohra BEN SALEM

Technical Editors

Prof. Dr. Rağbet Ezgi DURAN

Assist. Prof. Dr. Mehmet Akif YETİM

Layout Editors

Assoc. Prof. Dr. Durmuş Ali ALDEMİR

Assist. Prof. Dr. Nurullah YILMAZ

Assist. Prof. Dr. Damla ÖNDER

Assist. Prof. Dr. Zekiye ÇİLOĞLU ŞAHİN

Assist. Prof. Dr. Kader POTURCU

Res Asst. Dr. İsmail ERKAYA

Res Asst. Yunus Emre BÜLBÜL

Res Asst. Özgecan TİRYAKI

Res Asst. Yiğit ANTEPLİOĞLU

Res Asst. Elif MUSLU

Res Asst. Saime KOLANCI

Language Editors

Assist. Prof. Dr. Ali Osman YALKIN

Assist. Prof. Dr. Yeşim Sultan AKBAY

Süleyman Demirel University Faculty of Arts and Science Journal of Science is a peer-reviewed scientific journal published semi-annually, in May and November.

Original scientific research articles submitted in English in the fields of Biology, Physics, Chemistry and Mathematics are continued in the scientific review process after the preliminary evaluation stage, where similarity and layout checks are made.

No fee is charged from the author or institution under any name.

Special numbers/issues can be published without changing the periodic publication frequency during the year.

Since 2017; technical notes, letters to the editor, discussions, case reports and reviews will not be accepted.

As of 01.01.2023, Süleyman Demirel University Faculty of Arts and Sciences Journal of Science only accepts studies submitted in English.

Süleyman Demirel University Faculty of Arts and Science Journal of Science (SDUFASJS) takes into account the principles published by the Higher Education Institutions Scientific Research and Publication Ethics Directive and “Committee on Publication Ethics” (COPE). In this context, the issues that are important for the authors, referees and editors are specified in the “Ethical Principles and Publication Policy” page of the journal website.

Süleyman Demirel University Faculty of Arts and Science Journal of Science is indexed in the following databases.

- ULAKBIM TR – Dizin
- Bielefeld Academic Search Engine (BASE)
- Centre for Agriculture and Bioscience International (CABI) - CAB Direct
- China National Knowledge Infrastructure (CNKI)
- Crossref
- Directory of Open Access Journals (DOAJ)
- Directory of Open Access Scholarly Resources (ROAD)
- EBSCO host
- Elektronische Zeitschriftenbibliothek (EZB)
- German Union Catalogue of Serials (ZDB)
- Google Academic
- Index Copernicus
- Information Matrix for the Analysis of Journals (MIAR)
- MathSciNet
- ResearchBib
- WorldCat

CONTENTS

Effects of Usnic Acid on Cytotoxicity, Colony Formation and Migration in SK-UT-1 Human Uterine Leiomyosarcoma Cells	195
Doğukan Mutlu, Mücahit Seçme, Şevki Arslan	
On Neutrosophic Square Matrices and Solutions of Systems of Linear Equations	203
Yılmaz Çeven, Ali İhsan Sekmen	
Evaluation of the Gaunt Coefficients by Using Recurrence Relations for Spherical Harmonics	213
Selda Özay	
Influence of Ho Substitution on Structural, Morphological, and Optical Properties of Anatase $Ti_{1-x}Ho_xO_2$ (x= 0.0, 0.01, 0.02, 0.03) Thin Films	223
Şeydanur Kaya	
Experimental Study on The Gamma Ray Absorption Properties of Lanthanum and Cerium Borides	238
Hasan Gulbicim, Aynur Ozcan, Nureddin Turkan, Mecit Aksu, Esra Kurt	
Adsorption of Uranium (VI) on organic cation-moded kula volcanite and optimization with surface response method (RSM)	248
Ümit H. Kaynar, Sermin Çam Kaynar	
Solutions to Differential-Differential Difference Equations with Variable Coefficients by Using Fourier Transform Met	259
Murat Düz, Sunnet Avezov, Ahmad Issa	
A Photo-transfer Thermoluminescence (PTTL) Study of TLD-100 over a Wide Dose Range	268
Engin Aşlar	
Investigation of the Incorporation of C_{60} into $PC_{61}BM$ to Enhance the Photovoltaic Performance of Inverted-type Perovskite Solar Cells Based on $MAPbI_3$	276
Mehmet Kazici	
