metin, grafik tasarım, uçucu; el ilanı, kitap içeren bir resim

Yapay zeka tarafından oluşturulan içerik yanlış olabilir.

**ISSN:** 2757-5659

**Yıl/Year**: 2025, **Cilt/Volume**:6, **Sayı/Number**:1

**Dergi Sahibi / Owner**

Prof. Dr. Ayhan CEYHAN

**Sorumlu Müdür / Director**

Prof. Dr. Vecihi AKSAKAL

Bayburt Üniversitesi, Uygulamalı Bilimler Fakültesi, Bayburt, Türkiye

**Baş Editör / Editor in Chief**

Prof. Dr. Ayhan CEYHAN

Niğde Ömer Halisdemir Üniversitesi Ayhan Şahenk Tarım Bilimleri ve Teknolojileri Fakültesi, Merkez Yerleşke, Bor Yolu Üzeri, 51240, Niğde / TÜRKİYE

**Yardımcı Editör / Associate Editor**

Prof. Dr. Tugay AYAŞAN

Osmaniye Korkut Ata Üniversitesi Kadirli Uygulamalı Bilimler Fakültesi Organik Tarım İşletmeciliği Bölümü, Osmaniye/ TÜRKİYE

**Mizanpaj Editörü**

Doç. Dr. Ferda KARAKUŞ

Van Yüzüncü Yıl Üniversitesi, Ziraat Fakültesi, Zootekni Bölümü, TÜRKİYE

**Dil Editörü / Language Editor**

|  |  |
| --- | --- |
| Dr. Mabrouk ELSABAGH | Niğde Ömer Halisdemir Üniversitesi, Niğde, Türkiye |
| Dr. ALLAH BAKHSH | Centre of Excellence in Molecular Biology, University of the Punjab, Lahore, Pakistan |
| Dr. Mahmood AYYAZ | Department of Biology, University of Okara, Punjab, Pakistan |

**İstatistik Editörü / Statistic Editor**

|  |  |
| --- | --- |
| Prof. Dr. Çiğdem TAKMA | Ege Üniversitesi, İzmir, Türkiye |
| Prof. Dr. Mustafa SAHIN | Kahramanmaraş Sütçü İmam Üniversitesi, K.Maraş, Türkiye |
| Prof. Dr. Adnan UNALAN | Niğde Ömer Halisdemir Üniversitesi, Niğde, Türkiye |

# **Tarım, Gıda, Çevre ve Hayvancılık Bilimleri Dergisi** hakemli bir dergidir.

***Journal of Agriculture, Food, Environment and Animal Sciences******(JAFEAS)*** *is a peer-reviewed journal*

# **Tarım, Gıda, Çevre ve Hayvancılık Bilimleri Dergisi y**ılda 2 kez (Haziran ve Aralık) yayınlanmaktadır.

***Journal of Agriculture, Food, Environment and Animal Sciences******(JAFEAS)*** *is published two times (June and December) in a year.*

**Dergi İçin Yazışma Adresi / *Correspondence Address***

Prof. Dr. Ayhan CEYHAN (Baş Editör)

Niğde Ömer Halisdemir Üniversitesi Ayhan Şahenk Tarım Bilimleri ve Teknolojileri Fakültesi, Merkez Yerleşke, Bor Yolu Üzeri, 51240, Niğde / TÜRKİYE

E posta: [jafeas.editor@gmail.com](mailto:jafeas.editor@gmail.com)

Prof. Dr. Ayhan CEYHAN (Chief Editor)

Niğde Ömer Halisdemir University Faculty of Agricultural Sciences and Technologies, Central Campus, 51240, Nigde / TURKEY

Email: [jafeas.editor@gmail.com](mailto:jafeas.editor@gmail.com)

**Web link:** [**https://jafeas.com/index.php/j1**](https://jafeas.com/index.php/j1)

# **Editör Kurulu/ Editorial Board**

|  |  |
| --- | --- |
| Professor Dr. Vecihi AKSAKAL | Bayburt University, Bayburt, Turkey |
| Professor Dr. Metin TURAN | Yeditepe University, İstanbul, Turkey |
| Professor Dr. Yasemin ÖNER | Uludağ University, Bursa, Turkey |
| Professor Dr .Faik KANTAR | Akdeniz University, Antalya, Turkey |
| Professor Dr. Sibel CANOGULLARI | Nigde Ömer Halisdemir University, Nigde, Turkey |
| Professor Dr. Mikail BAYLAN | Cukurova University, Adana, Turkey |
| Professor Dr. Mustafa KÜSEK | Kahramanmaras Sutcu Imam University, K.Manmaras, Turkey |
| Professor Dr. Mevlüt GÜL | Isparta Applied Sciences University, Isparta, Türkiye |
| Professor Dr. Sibel SOYCAN ÖNENC | Tekirdag University, Tekirdag, Turkey |
| Professor Dr. Sabri GÜL | Mustafa Kemal University, Hatay, Turkey |
| Professor Dr. Hülya GÜL | Süleyman Demirel University, Isparta, Turkey |
| Professor Dr. Osman KOLA | Alpaslan Türkeş Science and Technology University, Adana, Turkey |
| Professor Dr. Hakan INCI | Bingöl University, Bingöl, Turkey |
| Professor Dr. Şaban KORDALI | Muğla Sırkı Koçman University, Muğla, Turkey |
| Professor Dr. B. Devrim ÖZCAN | Cukurova University, Adana, Turkey |
| Professor Dr. Bahri BAYRAM | Ataturk University, Erzurum, Turkey |
| Professor Dr.  Esra UCAR SÖZMEN | Cumhuriyet University, Sivas, Turkey |
| Professor Dr. Isa COSKUN | Ahievran University, Kirsehir, Turkey |
| Professor Dr. Rashmi GUJRATİ | KC Group of Institutions Nawanshahr, India |
| Professor Dr. Hasan TANGÜLER | Nigde Omer Halisdeir University, Nigde, Turkey |
| Associate Professor Dr. Ferda KARAKUS | Yüzüncü Yil University, Van, Turkey |
| Associate Professor Dr. M. Göksel AKPINAR | Akdeniz University, Antalya, Türkiye |
| Associate Professor Dr. Zafer CEYLAN | Yüzüncü Yil University, Van, Turkey |
| Associate Professor Dr. Seyrani KONCAGUL | Ankara University, Ankara, Turkey |
| Associate Professor Dr. Nacide KIZILDAĞ | Cukurova University, Adana, Turkey |
| Associate Professor Dr. Özlem KARADAĞOĞLU | Kafkas University, Kars, Turkey |
| Associate Professor Dr. Orhan KARADAĞ | Muş Alpaslan University, Muş, Turkey |
| Associate Professor Dr. Cem BALTACIOĞLU | Nigde Omer Halisdeir University, Nigde, Turkey |
| Asst. Prof. Dr. Cavidan GÜL VARIŞ | Adıyaman University, Adıyaman, Turkey |
| Asst. Prof. Dr. Sevda İNAN | Namık Kemal University,Tekirdag, Turkey |
| Dr. Qasim SHAHID | College of Agriculture, South China Agricultural University Guangzhou, 510642, China |
| Dr. Muhammad Amjad NAWAZ | Far Eastern Federal University, Vladivostok, Russia |
| Dr. Muhammad Ali Imran SHAH | Muhammad Nawaz Sharif University of Agriculture, Department Agri Economics Multan, Pakistan |
| Dr. Khalid MAHMOOD | Department of Agroecology, Aarhus University, Denmark |
| Dr. Fernanda Cortez LOPES | Centre of Biotechnology, Federal University of Rio Grande, Brazil |
| Dr. Concepcion Rubies AUTONELL | Department of Agricultural Sciences, University of Bologna, Italy |
| Dr. Jiban SHRESTHA | Nepal Agricultural Research Council Kathmandu, Nepal |
| Dr. A K M Rafiul ISLAM | Department of Botany, University of Rajshahi, Bangladesh |
| Dr. Veysel ARAS | Republic of Turkey Ministry of Agriculture and Forestry Alata Horticultural Research Institute,Turkey |
| Associate Professor Morteza Sattaei MOKHTARI | Department of Animal Science, Faculty of Agriculture, University of Jiroft, Jiroft,  Iran |
| Assistant Professor Rizwan GHASURA | Department of Veterinary & A.H. Extension College of Veterinary Science & A.H Navsari Agricultural University,Navsari,Gujarat State.India |
| Assistant Professor Olcay GÜLER | Atatürk University, Hınıs Vocational School, Department of Veterinary Medicine, Erzurum, Turkey |

**ISSN:** 2757-5659

**Danışmanlar Kurulu** / Advisory Board

|  |  |
| --- | --- |
| Professor Dr. Nazan KOLUMAN | Çukurova University, Faculty of Agriculture Department of Animal Science Adana, Turkey |
| Professor Dr. Nurinisa ESENBUĞA | Ataturk University, Faculty of Agriculture Department of Animal Science, Erzurum, Turkey |
| Associate Professor Dr. Esra AYDOĞAN ÇİFCİ | Bursa Uludag University, Faculty of Agriculture Department of Field Crops, Bursa Turkey |
| Professor Dr. Adel Salah KHATTAB | Tanta University, Faculty of Agriculture, Department Animal Production, Egypt |
| Professor Dr. Burhan OZKAN | Akdeniz University, Faculty of Agriculture, Department of Agricultural Economics Antalya, Turkey |
| Professor Dr. Ewa GROCHOWSKA | University of Technology and Life Sciences in Bydgoszcz  Department of Animal Biotechnology and Genetics, Poland |
| Professor Dr.Ümmügülsüm ERDOĞAN | Bayburt University, Faculty of Engineering, Department of Food Engineering Bayburt, Turkey |
| Professor Dr. Selma Yaşar KORKANÇ | Nigde Omer Halisdeir University,Faculty of Engineering, Department of Environmental Engineering Nigde, Turkey |
| Professor Dr. Hanefi BAYRAKTAR | Atatürk University, Faculty of Engineering, Environmental Engineering Erzurum, Turkey |

**ISSN:** 2757-5659

**2025 yılı, Cilt 6, Sayı 1’deki hakemlerin listesi aşağıda verilmiştir**.

2025 Year, Volume 6, Issue 1 list of referees is given below.

|  |  |
| --- | --- |
| **Hakemler / Referees** | **Kurum / Institution** |
| Professor Dr. Md. Nazim UDDIN | Dept. of Livestock Production and Management, Faculty of Veterinary, Animal and Biomedical Sciences, Sylhet Agricultural University, Sylhet-3100, Bangladeş |
| Professor, Dr.T.Yasodha | Dept of Biotechnology,Madha Engineering College,Chennai, India |
| Prof. Dr. Duygu BOYRAZ ERDEM | Tekirdağ Namık Kemal University, Faculty of Agriculture, Department of Soil Science and Plant Nutrition, Türkiye |
| Prof. AJITH KUMAR K. | Arunachal University of Studies · Faculty of Agricultural Sciences, India |
| Prof.Dr. Sabri GÜL | Hatay Mustafa kemal Üniversitesi, Ziraat Fakültesi Zootekni Bölümü, Hatay, Türkiye |
| Profesör Dr. Kader YILDIZ | Kırıkkale Üniv. Veteriner Fakültesi, Kırıkkale, Türkiye |
| Doç. Dr. Nuray DEMİR | Atatürk Üniversitesi Ziraat Fakültesi Tarım Ekonomisi Bölümü 25240 Erzurum, Türkiye |
| Prof.Dr. Engin ERTAN | Aydın Adnan Menderes Üniversitesi  Ziraat Fakültesi Bahçe Bitkileri Bölümü, Aydın Türkiye |
| Doç. Dr. İdris Macit | Karadeniz Tarımsal Araştırma Enstitüsü, Samsun, Türkiye |
| Doç. Dr. ZEYNEP ÜNAL | Niğde Ömer Halisdemir Üniversitesi. Tarım Bilimleri ve Teknolojileri fakültesi, Biyosistem Mühendisliği, Niğde Türkiye |
| Doç. Dr. Hande Işıl AKBAĞ | Çanakkale Onsekiz Mart Üniversitesi, Ziraat Fakültesi, Zootekni, Çanakkale, Türkiye |
| Doç.Dr. Nuray DEMİR | Atatürk Üniversitesi, Ziraat Fakültesi, Tarım Ekonomisi, Erzurum, Türkiye |
| Doç. Dr. Ali KAYAHAN | Yozgat Bozok Üniversitesi, Ziraat Fakültesi, Bitki Koruma, Entomoloji, Yozgat, Türkiye |
| Doç. Dr. Sibel ALAPALA DEMİRHAN | Uşak Üniversitesi, Ziraat Fakültesi, Zootekni Bölümü, Uşak, Türkiye |
| Doç. Dr. Songül YALÇIN ATEŞ | İzmir Zirai Karantina Müdürlüğü, Alsancak, İzmir Türkiye |
| Dr. Öğr. Üyesi FİGEN CERİTOĞLU | Siirt Üniversitesi Ziraat Fakültesi Zootekni Bölümü Biyometri ve Genetik Anabilim Dalı, Siirt, Türkiye |
| Dr. Öğr. Üyesi Burak AKYÜZ | Ondokuz Mayıs Üniversitesi, Ziraat Fakültesi, Bahçe Bitkileri Bölümü, Meyve Yetiştirme ve Islahı Anabilim Dalı, Samsun, Türkiye |
| Dr John Oluwaseun IFABIYI | Department of Agriculture, Phoenix University Agwada, Nasarawa State, Nigeria |
| Dr. Chibuzo Uzoma IZUOGU | Department of Agricultural Extension, Alex Ekwueme Federal University, Ndufu Alike, PMB 1010, Abakiliki, Ebonyi State, Nigeria |
| Dr. Shifa Waled Mathbout | Physical Geography, Researcher at European University Cyprus |
| Dr. Maher ALI | Doctor of the Ecology and Forestry Department, Faculty of Agricultural Engineering, Tishreen University, Lattakia, Syria |
| Dr. Öğr. Üyesi Esra GÜRSOY | Eleşkirt Celal Oruç Hayvansal Üretim Yüksekokulu, Hayvansal Üretim ve Teknolojileri Bölümü, Ağrı, Türkiye |
| Dr. Anthony S. KUMI | Department of Agricultural and Environmental Science, Tuskegee University, United States of America |
| Assist. Res Professor,  George AWUNI | Mississippi State University Department of Plant and Soil Sciences, Starkville, United States |
| Dr. Peter BABATUNDE | National Biotechnology Research Development Agency, PMB5118, Lugbe, Abuja. Nigeria |
| Doktor Öğretim Üyesi Sultan ACUN | Amasya Üniversitesi/Suluova Meslek Yüksekokulu/Gida İşleme Bölümü/Gida Teknolojisi Pr. Amasya, Türkiye |
| Dr. Olusegun O. IKUSIKA | University of Fort Hare, Department of Animal Science, South Africa |
| Dr. Mihaela IVANCIA | Ion Ionescu de la Brad” Iași University of Life Sciences (IULS), Faculty of Food and Animal Sciences Aleea Mihail Sadoveanu nr. 8, 700490, Iaşi, Romania |
| Dr. Raymond Chukwuka ONYEMEKONWU | Department of Agricultural economics and extension, Dennis Osadebay University, Asaba, Nigeria |
| Md.Nahid MAHMUD | IUBAT-International University of Business Agriculture and Technology, Uttara, Dhaka 1230, Bangladesh. |
| Dr. Victor AGBAJELOLA | Department of Veterinary Pathobiology, University of Missouri, Columbia, MO 65211, USA |
| Dr. Oluseun S. OLUBODE | University of Ibadan, Plant Ecology, Nigeria |
| Dr. Tainika BRIAN | Muni University, 725 Arua City, Uganda |
| Dr. Öğretim Üyesi Mustafa DUMAN | Niğde Ömer Halisdemir Üniversitesi. Bor meslek Yüksek Okulu Veterinerlik Bölümü, Niğde Türkiye |
| Dr. Öğr. Üyesi Özgür Kıvılcım KILINÇ | Suleyman Demirel Universty, Isparta, Türkiye |
| Dr. Olanipekun, Samson | Institute of Agricultural Research and Training (IAR&T), Ibadan, Nigeria |
| Dr. Öğr. Üyesi Sadık ÇIVRACI | Bayburt Üniversitesi, Veterinerlik bölümü Bayburt, Türkiye |
| Dr. Öğr. Üyesi Halit MAZLUM | Kelkit Aydın Doğan Vocational School, Ahmet Yesevi District, Kelkit/Gümüşhane, Türkiye |
| Arş. Gör. Dr. TUĞÇE KAYA | Çukurova Üniversitesi Ziraat Fakültesi Tarım Ekonomisi Bölümü, Adana, Türkiye |
| Liska Mutiara SEPTIANA | Department of Soil Science Faculty of Agriculture Universitas Lampung, Bandar Lampung, Indonesia |
| Rendy ANGGRIAWAN | Department of Soil Science, Jember University, Jl. Kalimantan 37, Jember 68121, Indonesia |
| Ayu Puspita Arum | University of Jember, Kalimantan Street no. 37, Jember, Indonesia |
| Oluwatobi OGUNSOLA | University of Kentucky, United States of America |

**E-ISSN:** 2757-5659

**Yıl/Year: 2025, Cilt/Volume :5, Sayı/Number:1**

**İçindekiler / Contents**

|  |  |
| --- | --- |
| **Araştırma / Derleme Makaleleri/ Research / Review Articles** | **Sayfalar / Pages** |
| **Ronald D. FRITZ**  Cure Rate Characterization of Dunstan Chestnuts (*Castanea Dentata Mollissima*) As A Function of Time, Temperature, Harvest Timing and Nut Characteristics | 1-30 |
| **Shahidul ISLAM, Towfiqur RAHMAN, Md. Hamidul ISLAM, Abdul MOMIN**  Leaf-Based Varietal Categorization of Sweetpotato (*Ipomoea batatas* L. Lam.), a Potentially Healthful Vegetable, Using Image Processing and K-Means Clustering | 31-49 |
| **HM. Ashiquzzaman RANA, Sarder Safiqul ISLAM, Md. Shafiqul ISLAM, Pronoy TARAFDER, Minhazul Abedin SUN, Dhiman MONDOL**  Impact of Supplementing Urea-Molasses Multi-Nutrient Block (UMMB) on Growth Performance of Crossbred Sheep | 50-64 |
| **Ameera Fatema WAJIDALLY, Nasrudeen ALLY**  A Comprehensive Analysis of the Socio-Economic and Environmental Impacts of the Prolonged Dry Season in Lonsdale Village and Brother's Village, East Bank Berbice, Guyana | 65-83 |
| **Micheal SKAF, Roze AL KOUBAİLY, Eghraa ZAHER**  The Effect of Climate Change and Variability on The Risk of Forest Fires in AL-Ghab Syrian Region During the Period 2007-2021 | 84-100 |
| **Pride HODZI, Tonderai MUTIBVU, David Tinotenda MBIRIRI**  Replacing Soybean Meal with *Acacia Angustissima* in Broiler Diets Strengthens Birds Skeletal Frame | 101-112 |
| **Salam SABRI**  The Effect of Microwave Electromagnetic Radiation on Microorganisms and Stored Grain Pests in Iraqi Local Wheat | 113-122 |
| **Mercy Marilyn AKPALU, Emmanuel AKUDBILLA**  Level of Agronomic Practices Adopted and Yield of Sorghum in the Tempane District of the Upper East Region, Ghana | 123-133 |
| **Nnamdi Chukwu AMADI, Emeka Iroamachi AWOM, Flourizel IGBAN**  Assessing the Responsiveness to Demand Creation and Communication on Probiotics Use Among Fish Farmers in Akwa Ibom State, Nigeria: A 9-Parametre Path Analytic Modeling Approach | 134-145 |
| **Andini Permata SARI, Ayu Puspita ARUM, Setiyono SETIYONO, Dyah Ayu SAVITRI**  Composition Treatment of Planting Media by Using Coffee Leather Waste Compost on The Growth of Arabic Coffee (Coffea Arabica) Seeds | 146-157 |
| **Arun NINAWE**  Sustainable Agriculture: A Catalyst for Inclusive and Resilient Development | 158-181 |
| **Chidinma Susan IROEGBU, Damian Okwudiri ASAWALAM, Emmanuel V. OSODEKE**  Responses of Soil Exchangeable properties, Growth and yield of Orange-Fleshed Sweet Potato (*Ipomoea batatas* (L) Lam) to the application of N, P, and K fertilizer combination rates at Ikwo, Abakaliki Nigeria | 182-211 |
| **Theresa Odinakachi NNAMOCHA, Chinenye AZUK, AIro NKAMA**  Study of Moisture Sorption Characteristics of White and Yellow Gari and Its Thermodynamics | 212-229 |
| Ayuba DAUDA, Ahmau Aboki OCHEFU, Yusuf IDI, Blessing Mairafi GAMBOComparative Analysis of Nutritional, Physicochemical, Antioxidant, and Microbial Properties of Cattle, Sheep and Goat Milk | 230-243 |
| **OJoseph Oluwaseun KOMOLAFE, David Oluwafisayomi IKOTUN, Harrison Osaruese AGHEDO**  Assessment Climate Change Adaptation Strategies on Maize Production in Selected States, in South-West, Nigeria | 244-257 |
| **Mohammadreza GHORANI, Fahime ESLAMI, Nader Ahmadi Saleh BABERI, Seyed Hossein ZAMZAM, Mohammadreza REZAPANAH, Sina SOLEIMANI**  First Record of *Gordius spp. (Nematomorpha: Gordiidae*) in Southwestern Iran: Morphology, Behavioral Patterns, and Ecological Implications | 258-263 |
| **Tajudeen Bamidele AKINRINOLA, Hassan TIJANI-ENIOLA**  The Effects of Storage Methods on the Emergence, Growth, and Yield of *Cocoyam* [*Xanthosoma sagittifolium (L.*) Schotts] | 264-280 |
| **Glen MORRIS, Shawn EHLERS**  Review of GIS Analysis used in Poultry Livestock Disease Prevention in USA | 281-292 |
| **Ibukunolu UDEMBA, Olubunmi ALUKO, Adedotun ADEWUMI, Olatunde AYODELE**  Evaluation of Roselle (*Hibiscus* *sabdariffa* L.) Accessions for Agronomic and Weed-Suppressive Potentials in the Rainforest-Savannah Transition Agroecology of Nigeria | 293-302 |
| **Natsai Clarah SHUMBA, Tonderai MUTIBVU, Charles Sean CHAKUVINGA, Edeline Petia MURANDU**  Synergistic Effects of Saccharomyces Cerevisiae and Inulin on Growth Performance of Broilers | 303-321 |
| **Rana Yaser ARAFAT, Maqsood AKHTAR, Arfan ASGHAR, Sohail AHMAD, Ehsaan Ullah KHAN, Musarrat SHAHEEN, Irem ANWAR, Noreen UMBER**  Feeding and management of heat stress in livestock: Knowledge, perceptions and attitude of livestock keepers in District Okara, Punjab, Pakistan | 322-336 |