

# TURJAF

12(7): 2024  
TURKISH ISSUE



*Image from Pixabay*

**Turkish Journal of Agriculture - Food Science and Technology**  
International Peer-Reviewed Journal | ISSN: 2148-127X  
[www.agrifoodscience.com](http://www.agrifoodscience.com)



## Contents Vol. 12 No. 7 (2024)

### Research Paper

**Animal Health and Welfare Practices in Cattle Breeding Enterprises in Eastern Anatolia Region: The Case of Aşkale County of Erzurum Province**

*Rıdvan Koçyiğit, Mete Yanar, Recep Aydin, Veysel Fatih Özdemir, Oğuz Fatih Ergün, Bahri Bayram, Abdulkerim Diler, Onur Şat* 1120-1128

**Investigation of the Kinetics of Ultrasound Pre-treatment Drying of Seeded and Seedless Pomegranate Arils Using Thin Layer Models Containing at Most Two Parameters**

*Salih Eroğlu* 1129-1136

**Evaluation of Cucumber Cultivation in Greenhouse under Farmer Conditions in Terms of Energy Use Efficiency**

*Nurcan Yavuz, Aslı Güleç* 1137-1143

**Evaluation The Effects on Bioactive, Physicochemical and Sensory Properties of Araujia sericifera (Moth vine) Cooked by Different Methods: Multi-Criteria Decision-Making Analysis**

*Cansu Çeviker, Tuğba Dedebaş, Tuğba Dursun Çapar* 1144-1155

**Production Habits and Problems in Taşköprü Garlic**

*Hüseyin Güran Ünal* 1156-1161

**Artificial Intelligence and Unmanned Aerial Vehicles in Digital Livestock Farming: Hair Goat Detection, Tracking and Counting in Mountainous and Rough Terrain Using Deep Learning and Computer Vision**

*Cihan Çakmakçı* 1162-1173

**PCR Detection and Molecular Characterization of *Coxiella burnetii* from *Rhipicephalus sanguineus* Ticks Collected from Dogs**

*Ali Bilgin Yılmaz, Adnan Ayan, Ezgi Şababoğlu, Yaşar Göz, Burçak Aslan Çelik, Özgür Çelik, Özge Oktay Ayan* 1174-1177

**The Effect of Olive Oil Industry By-Product Wastewater on the Quality and Microbiological Characteristics of Hungarian-triticale Silages**

*Asuman Arslan Duru, Dilek Aksu Elmali, Osman Yüksel, Metin Duru* 1178-1184

**Determination of Some Quality Parameters in the *Salicornia europaea* Population Collected from Geyikli Town of Ezine District of Çanakkale Province**

*Tolga Sarıyer, Murat Şeker* 1185-1189

**Determination of The Effects of Apple Pomace Addition on Alfalfa Silage Quality**

*Yücel Ünal, Behlül Sevim, Erinç Gümüş, Selim Sırakaya, Tugay Ayaşan, Yusuf Cufadar, Osman Olgun, Asuman Duru* 1190-1196



## The Importance of Tractor Exhaust Emission Test Methods in Terms of Environmental Pollution

*Mehmet Recai Durgut*

1197-1203

## The Moderating Effect of Ethical Leadership on the Relationship between Democracy and Organizational Commitment in Agricultural Organizations

*Halil Özcan Özdemir, Zekeriya Yazıcı*

1204-1212

## Creation of Spatial and Temporal Based Maps of Climate Class and Reference Evapotranspiration Using AutoCAD Software – A Case Study of Eastern Anatolian Region of Türkiye

*Selçuk Usta*

1213-1224

## Review Articles

### Diseases Caused by Gluten and Gluten Metabolism Disorder

*Aybuke İmik, Ceren Gezer*

1225-1230

### Some Effects of Sesame (*Sesamum indicum*) on Health

*Cemal Kurt*

1231-1237

# **Editorial Team**

## **Editor in chief**

Prof. Dr. Musa Sarıca, Ondokuz Mayıs University, Türkiye

## **Associate Editor**

Prof. Dr. Hasan Eleroğlu, Cumhuriyet University, Türkiye

Prof. Dr. Ahmet Şekeroğlu, Ömer Halisdemir University, Türkiye

## **Manuscript Editor**

Dr. Kadir Erensoy, Ondokuz Mayıs University, Agricultural Faculty, Department of Animal Science, Türkiye

## **Editorial Board**

Prof. Dr. Ebubekir Altuntaş, Gaziosmanpasa University, Türkiye

Prof. Dr. Mustafa Avcı, Niğde Ömer Halisdemir University, Niğde, Türkiye

Prof. Dr. Zeki Bayramoğlu, Selçuk University, Konya, Türkiye

Prof. Dr. Kezban Candoğan, Ankara University, Türkiye

Prof. Dr. Yusuf CUFADAR, Selçuk University, Konya, Türkiye

Prof. Dr. Mahmut Çetin, Çukurova University, Adana, Türkiye

Prof. Dr. Suat Dikel, Çukurova University, Türkiye

Prof. Dr. Hasan Eleroğlu, Cumhuriyet University, Türkiye

Prof. Dr. Naif Geboloğlu, Gaziosmanpasa University, Türkiye

Prof. Dr. Orhan Gündüz, Malatya Turgut Ozal University, Faculty of Agriculture, Department of Agricultural Economics, Türkiye

Prof. Dr. Leyla İdikut, Kahramanmaraş Sütçü İmam University, Türkiye

Prof. Dr. Sedat Karaman, Gaziosmanpasa University, Türkiye

Prof. Dr. Mustafa Karhan, Akdeniz Üniversitesi, Türkiye

Prof. Dr. Hüseyin Karlıdağ, İnönü University, Türkiye

Prof. Dr. Muharrem Kaya, İsparta Uygulamalı Bilimler Üniversitesi, Ziraat Fakültesi, Tarla Bitkileri Bölümü, Türkiye

Prof. Dr. Halil Kızılaslan, Gaziosmanpasa University, Türkiye

Prof. Dr. Kürsat Korkmaz, Ordu University, Türkiye

Prof.Dr. Abdulrezzak Memon, Usak university Faculty of Science and Arts Department of Molecular Biology and Genetics, Türkiye

Prof.Dr. Yusuf Ziya Oğrak, Cumhuriyet University, Faculty of Veterinary Medicine, Türkiye

Prof. Dr. Bahri Devrim Özcan, Çukurova University, Türkiye

Prof. Dr. Kadir Saltalı, Kahramanmaras Sutcu Imam University, Türkiye

Prof. Dr. Zeliha Selamoğlu, Nigde University, Türkiye

Prof. Dr. Ahmet Şahin, Ahi Evran Üniversitesi, Türkiye

Prof. Dr. Ahmet Şekeroğlu, Ömer Halisdemir University, Türkiye

Prof. Dr. Yusuf Yanar, Gaziosmanpasa University, Türkiye

Prof. Dr. Arda Yıldırım, Tokat Gaziosmanpasa University, Türkiye

Prof. Dr. Metin Yıldırım, Nigde Omer Halisdemir University, Türkiye

Prof. Dr. Zeliha Yıldırım, Niğde Ömer Halisdemir University, Türkiye

Prof. Dr. Sertaç Güngör, Selçuk University, Türkiye

Prof. Dr. Hasan Tangüler, Nigde Omer Halisdemir University, Türkiye

Prof. Dr. Adnan ÜNALAN, Niğde Ömer Halisdemir University, Türkiye

Associate Prof. Dr. Ahmed Meneşeoğlu, Ağrı İbrahim Çeçen University, Türkiye

Associate Prof.Dr. Cem Baltacıoğlu, Niğde Ömer Halisdemir University (Niğde University), Türkiye

Associate Prof. Dr. Hasan Gökhan Doğan, Kırşehir Ahi Evran Universitiy, Türkiye

Associate Prof. Dr. Ekrem Mutlu, Kastamonu University, Türkiye

Assoc. Prof. Dr. Cem Okan ÖZER, Nevşehir Hacı Bektaş Veli University, Türkiye

Associate Prof. Dr. Emre Şirin, Ahi Evran Üniversitesi, Ziraat Fakültesi, Tarımsal Biyoteknoloji Bölümü, Kırşehir, Türkiye

Associate Prof. Dr. Hatıra Taşkın, Çukurova University, Türkiye

Dr. Emre Aksoy, Ömer Halisdemir University, Faculty of Agricultural Sciences and Technologies, Türkiye

Dr. Allah Bakhsh, Nigde Omer Halisdemir University, Türkiye

Dr. Mustafa Duman, Nigde University, Türkiye

Dr. Burak Şen, Omer Halisdemir University, Türkiye

## **Section Editors**

Prof. Dr. Alper Durak, Turgut Özal Üniversitesi, Türkiye

Prof. Dr. Gülistan Erdal, Gaziosmanpaşa Universitiy, Türkiye

Prof. Dr. Zeki Gökalp, Erciyes University, Türkiye

Prof. Dr. Rüştü Hatipoğlu, Cukurova University, Türkiye

Prof. Dr. Teoman Kankılıç, NİĞDE ÖMER HALİSDEMİR ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ  
BİYOTEKNOLOJİ BİYOTEKNOLOJİ ABD, Türkiye

Prof. Dr. Osman Karkacier, Akdeniz University, Türkiye

Prof. Dr. G. Tamer Kayaalp, Cukurova University, Türkiye

Prof. Dr. Nuray Kızılaslan, Gaziosmanpaşa University, Türkiye

Prof. Dr. Hasan Rüştü Kutlu, Cukurova University, Türkiye

Prof. Dr. Hülya Eminçé Sayğı, Ege University, Türkiye

Prof. Dr. İbrahim Tapkı, Mustaf Kemal University, Türkiye

Prof. Dr. Faruk Toklu, Çukurova University, Türkiye

Prof. Dr. Necati Barış Tuncel, Onsekiz Mart Üniversitesi, Türkiye

Prof. Dr. Erkan Yalçın, Bolu Abant İzzet Baysal University Faculty of Engineering Department of Food Engineering Gölköy Campus, Bolu Turkey, Türkiye

Prof. Dr. Durdane Yanar, Gaziosmanpaşa University, Faculty of Agriculture, Department of Plant Protection, Tokat, Türkiye

Associate Prof. Dr. Hüsnü AKTAŞ, Mardin Artuklu Üniversitesi Kızıltepe Meslek Yüksekokulu  
MARDİN

Associate Prof. Dr. Hatun Barut, Eastern Mediterranean Agricultural Research Institute.  
Adana/TURKEY, Türkiye

Associate Prof. Dr. Berken Cimen, Cukurova University Faculty of Agriculture Department of Horticulture, Türkiye

Associate Prof. Dr. Nazlı Ercan, Cumhuriyet University, Türkiye

Associate Prof. Dr. Cemal Kurt, Cukurova University, Türkiye Assistant

Prof. Muhammad Azhar Nadeem, Sivas bilim ve teknoloji üniversitesi

Yemeklik tane baklagiller, Türkiye

Associate Prof. Dr. Senay Ugur, Türkiye

Associate Prof. Dr. Uğur Serbester, Çukurova University, Türkiye

Associate Prof. Dr. Mustafa Sevindik, Osmaniye Korkut Ata University, Türkiye

Assoc. Prof. Özhan Şimsek, Erciyes University, Agriculture Faculty, Horticulture Department, Türkiye

Associate Prof. Dr. Gülsüm Yıldız, Tıbbı ve aromatik bitkileri Abant izzet baysal üniversitesi, Türkiye

Dr. Gökhan BAKTEMUR, Sivas University of Science and Technology, Türkiye

Dr. Sara Yasemin, Siirt Üniversity, Türkiye

Dr. Brian Tanika, Niğde Ömer Halisdemir University

### **Regional Editors**

Prof.Dr. Mohammad Abdul Baki - Bangladesh Noakhali Science and Technology University

Prof. Dr. Himayatullah Khan, Institute of Development Studies KPK Agricultural University, Peshawar, Pakistan

Prof. Dr. Abderrahim BENSLAMA, University of M'sila, Cezayir

Dr. Abdul Hannan, University of Agriculture, Pakistan

Dr. Aimee Sheree Adato Barrion, University of the Philippines Los Baños, Filipinler

Dr. Claudio Ratti, University of Bologna, İtalya

Dr. Dima Alkadri, University of the Bologna, İtalya

Dr. Fernanda Cortez Lopes, Federal University of Rio Grande do Sul, Brazil, Brezilya

Dr. Gheorghe Cristian Popescu, University of Pitesti Department of Applied Sciences and Environment Engineering Romania, Romanya

Dr. Idrees A. Nasir, University of the Punjab, Pakistan

Dr. Jelena Zindovic, University of Montenegro, Karadağ

Dr. Muhammad Amjad Ali, University of Agriculture, Faisalabad, Pakistan, Pakistan

Dr. Muhammad Naeem Sattar, University of the Punjab, İsviçre

Dr. Muhammad Rizwan ShafiqShafiq, R. Friedrich-Wilhelms-University, Almanya

Dr. Muhammad Qasim Shahid, South China Agricultural University, Çin

Dr. Muhammad Younas Khan, University of Quetta, Pakistan

Dr. Neelesh Sharma, Division of Veterinary Medicine Faculty of Veterinary Science & Animal Husbandry, Hindistan

Dr. Noosheen Zahid, University of Nottingham, Malezya

Dr. Mihaela Ivancia, University of Iasi, Romania

### **Statistics Editor**

Prof. Dr. Soner Çankaya, Ondokuz Mayıs University, Türkiye

Prof. Dr. Hübaverdi Bircan, Cumhuriyet Üniversitesi, Türkiye

Prof. Dr. Adnan ÜNALAN, Niğde Ömer Halisdemir University, Türkiye

### **Foreign Relations**

Emre Aksoy, Biological Sciences, Middle East Technical University, Türkiye

# Indexes

**Turkish Journal of Agriculture - Food Science and Technology (TURJAF) is indexed by the following national and international scientific indexing services:**

- [Directory of Open Access Journals \(DOAJ\)](#),
- [National Library of Australia \(TROVE\)](#),
- [WorldCat libraries \(WorldCat\)](#),
- [Ingenta \(Ingenta\)](#),
- [World Agricultural Economics and Rural Sociology Abstracts \(CABI\)](#),
- [Google \(Scholar\)](#),
- [Crossref \(Journals\)](#),
- [Sobiad Citation Index](#),
- [SciMatic \(SciMatic\)](#),
- [The Food and Agriculture Organization \(AGRIS\)](#),
- [Idealonline Index](#),
- [Scilit \(SCILIT\)](#),
- [Weill Cornell Medicine - Qatar](#),
- [Indiana University Kokomo](#),
- [Academic Search Engine \(SCINAPSE\)](#),
- [Fatcat Editor \(FATCAT\)](#),
- [Academic Research Index \(ACARINDEX\)](#),
- [Information Matrix for the Analysis of Journals \(MIAR\)](#),
- [National Library of Medicine](#),
- [The Turkish Academic Network and Information Centre \(ULAKBIM\)](#),
- [ULAKBIM TR Index list of Journals \(TR-INDEX\)](#).



This work is licensed under [Creative Commons Attribution 4.0 International License](#)

**ISSN: 2148-127X**



**Turkish JAF Sci.Tech.**



EISSN: 2148-127X

[Web](#)

Editör: Hasan Eleroğlu

Yayını: Turkish Science and Technology Publishing (TURSTEP)

Yayın Formatı: Elektronik

Yayın Dili: Türkçe, İngilizce

Yayına Başladığı Yıl: 2013

Dizinlendiği Yıllar: [2014 - 2024 \(Fen\)](#)Yıllık Yayın Sayısı [\(1\)](#): 12Konu Kategorisi [\(1\)](#): [Fen > Ziraat](#) [Fen > Mühendislik](#)Yayın Periyodu [\(1\)](#): Ocak, Şubat, Mart, Nisan, Mayıs, Haziran, Temmuz, Ağustos, Eylül, Ekim, Kasım, AralıkKonu Alanları [\(1\)](#): [Ziraat Mühendisliği](#) [Gıda Bilimi ve Teknolojisi](#)**Makale Sayısı**

2732

**Atıf Sayısı**

2469

**Kendine Atıf Sayısı**

779

**Atıf Alan Makale****Sayısı**

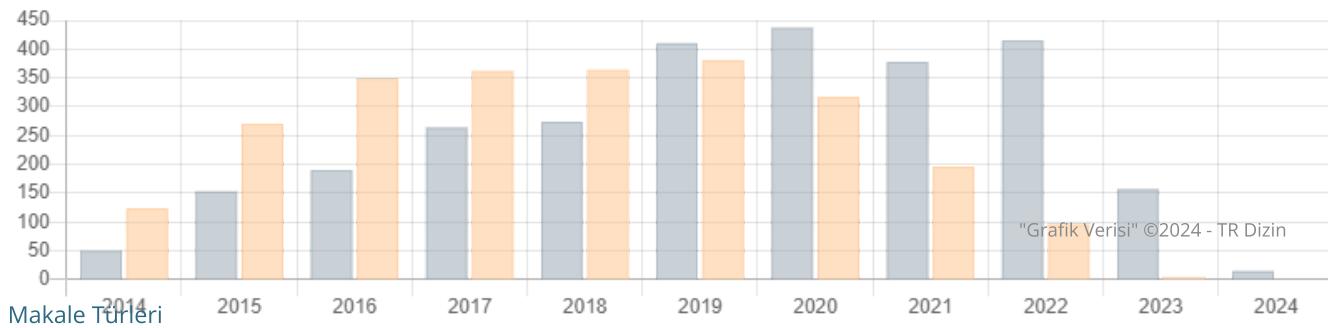
936

**Atıf Ortalaması**

0,9

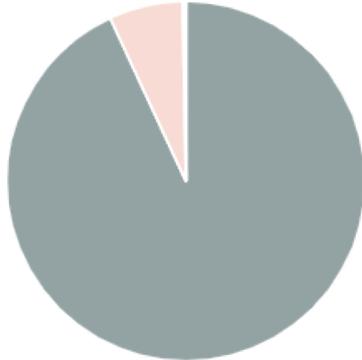
**Kendine Atıf Oranı**

%31,55



Makale Sayısı Atıf Sayısı

Araştırma Makalesi  
Derleme  
Diğer  
Olgu Sunumu  
Düzelte



"Grafik Verisi" ©2024 - TR Dizin