

# TURJAF



8(6): 2020



*Photo: Kaan Hurkan  
(Orchis simia)*

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



TR - DIZIN

Turkish Journal of Agriculture - Food Science and Technology (TURJAF) has been indexed by TR-DIZIN since 2014



### Türk Tarım - Gıda Bilim ve Teknoloji dergisi

**Editör** : Hasan Eleroğlu  
**ISSN** : 2148-127X / 2148-127X  
**Yıllık Yayın Sayısı** : 12  
**Web Sitesi** : <http://www.agrifoodscience.com>  
**Diğer Adı** : Turkish Journal of Agriculture - Food Science and Technology  
**Eski Adı** :  
**Yeni Adı** :

Dizinlendiği Yıllar	
2020	Fen
2019	Fen
2018	Fen
2017	Fen
2016	Fen

LICENSE

Turkish Journal of Agriculture - Food Science and Technology (TURJAF) is licensed under Creative Commons Attribution 4.0 International License



ISSN

International Standard Serial Number of Turkish Journal of Agriculture - Food Science and Technology (TURJAF) is 2148-127X



FIELD INDEXES

Turkish Journal of Agriculture - Food Science and Technology (TURJAF) is indexed in below:

Directory of Open Access Journals (DOAJ),  
Directory indexing of international research journals (CiteFactor),  
Scientific Journal Impact Factor (SJIF),  
Cosmos Impact Factor (Cosmos),  
Index Copernicus (ICI),  
Bielefeld Academic Search Engine (BASE),  
National Library of Australia (TROVE),  
Scientific Indexing Services (SIS),  
Global Impact Factor (GIF),  
Directory of Research Journals Indexing (DRJI),  
WorldCat libraries(WorldCat),  
Information Matrix for the Analysis of Journals (MIAR),  
Ingenta (Ingenta),  
World Agricultural Economics and Rural Sociology Abstracts (CABI),  
Google (Scholar),  
Crossref (Journals),



Turkish Journal of Agriculture - Food Science and Technology

Türk Tarım - Gıda Bilim ve Teknoloji Dergisi

International Peer-Reviewed Journal | ISSN: 2148-127X

[www.agrifoodscience.com](http://www.agrifoodscience.com)

Turkish Science and Technology (TST)



## Editorial Team

### Editor in chief

[Prof.Dr. Musa Sarıca](#), Ondokuzmayıs University, Turkey

### Associate Editor

[Prof.Dr. Ahmet Şekeroğlu](#), Ömer Halisdemir University, Turkey

[Prof.Dr. Hasan Eleroğlu](#), Cumhuriyet University, Turkey

### Editorial Board

[Prof.Dr. Mustafa Avcı](#), Turkey

[Prof. Dr. Ethem Akçol](#), Ömer Halisdemir University, Turkey

[Prof.Dr. Ebubekir Altıntaş](#), Gaziosmanpaşa University, Turkey

[Prof.Dr. Zeki Bayramoğlu](#), Selçuk University, Turkey

[Prof. Dr. Kezban Candöğün](#), Ankara Üniversitesi Mühendislik Fakültesi Gıda Mühendisliği Bölümü, Turkey

[Prof. Dr. Mahmut Çetin](#), Çukurova Üniversitesi, Turkey

[Prof.Dr. Suat Dikel](#), Çukurova University, Turkey

[Prof.Dr. Hasan Eleroğlu](#), Cumhuriyet University, Turkey

[Prof.Dr. Naif Geboloğlu](#), Gaziosmanpaşa University, Turkey

[Prof.Dr. Mehmet Güneş](#), Tokat Gaziosmanpaşa University

[Prof.Dr. Sedat Karaman](#), Gaziosmanpaşa University, Turkey

[Prof.Dr. Mustafa Karhan](#), Akdeniz Üniversitesi, Turkey

[Prof.Dr. Muharrem Kaya](#), Isparta Uygulamalı Bilimler Üniversitesi, Ziraat Fakültesi, Tarla Bitkileri Bölümü, Turkey

[Prof.Dr. Halil Kızılaslan](#), Gaziosmanpaşa University, Turkey

[Prof. Dr. Kürşat Korkmaz](#), Ordu University, Turkey

[Prof.Dr. Kadir Saltalı](#), Kahramanmaraş Sütçü İmam University, Turkey

[Prof.Dr. Ahmet Şahin](#), Ahi Evran Üniversitesi, Turkey

[Prof.Dr. Ahmet Şekeroğlu](#), Ömer Halisdemir University, Turkey

[Prof.Dr. Yusuf Yanar](#), Gaziosmanpaşa University, Turkey

[Prof. Dr. Zeliha Selamoğlu](#), Niğde University, Turkey

[Prof.Dr. Metin Yıldırım](#), Niğde Ömer Halisdemir University, Turkey

[Prof.Dr. Zeliha Yıldırım](#), Niğde Ömer Halisdemir University, Turkey

[Assoc.Prof.Dr. Sertaç Güngör](#), Selçuk University, Turkey

[Assoc. Prof. Dr. Ekrem Mutlu](#), Kastamonu University, Turkey

[Assoc. Prof.Dr. Yusuf Ziya Oğrak](#), Cumhuriyet University, Faculty of Veterinary Medicine, Turkey

[Associate Prof.Dr. Hasan Taşgüler](#), Ömer Halisdemir University, Turkey

[Associate Prof. Dr. Hatıra Taşkın](#), Çukurova University, Turkey

[Associate Prof. Dr. Adnan UNALAN](#), Niğde Ömer Halisdemir University, Turkey

[Assoc. Prof. Dr. Arda Yıldırım](#), Gaziosmanpaşa University, Turkey

[Dr. Emre Aksoy](#), Ömer Halisdemir University, Faculty of Agricultural Sciences and Technologies, Turkey

[Dr. Allah Bakhs](#), Niğde Ömer Halisdemir University, Turkey

[Dr. Mustafa Duman](#), Niğde University, Turkey

[Dr. Faheem Shehzad Baloch](#), Abant İzzet Baysal University, Turkey

[Dr. Burak Şen](#), Ömer Halisdemir University, Turkey

### Section Editors

[Prof.Dr. Neriman Bağdatlıoğlu](#), Manisa Celal Bayar University, Faculty of Engineering, Food Engineering Dept., 45140-

Muradiye, Manisa, Turkey

[Prof.Dr. Hüseyin Erten](#), Çukurova University, Turkey

[Prof.Dr. Turgut Cabaroğlu](#), Çukurova University, Turkey

[Prof.Dr. Ömer Camcı](#), Mustafa Kemal University, Turkey

[Prof. Dr. Adnan ÇİÇEK](#), Gaziosmanpaşa Üniversitesi Ziraat Fakültesi Tarım Ekonomisi Bölümü, TOKAT

[Prof.Dr. Yusuf Demir](#), Ondokuzmayıs University, Turkey

[Prof.Dr. Vedat Ceyhan](#), Ondokuzmayıs University, Turkey

[Prof.Dr. Alper Durak](#), Turgut Özal Üniversitesi, Turkey

[Prof.Dr. Gülistan Erdal](#), Gaziosmanpaşa University, Turkey

[Prof. Dr. Orhan Gündüz](#), Malatya Turgut Özal University, Turkey

[Prof. Dr. Leyla İdiküt](#), Kahramanmaraş Sütçü İmam University, Turkey

[Prof.Dr. İzzet Kadioğlu](#), Gaziosmanpaşa University, Turkey

[Prof.Dr. Osman Karkacier](#), Akdeniz University, Turkey

[Prof.Dr. G. Tamer Kayaalp](#), Cukurova University, Turkey

[Prof.Dr. Nuray Kızılaslan](#), Gaziosmanpaşa University, Turkey

[Prof.Dr. Mehmet Kuran](#), Ondokuzmayıs University, Turkey

[Prof.Dr. Hasan Rüşü Kutlu](#), Cukurova University, Turkey

[Prof.Dr. Cevdet Şeker](#), Selçuk University, Turkey

[Prof.Dr. İbrahim TAPKI](#), Mustafa Kemal Üniversitesi Ziraat Fakültesi Zootekni Bölümü, Turkey

[Prof.Dr. Necati Barış Tuncel](#), Onsekiz Mart Üniversitesi, Turkey

[Prof.Dr. Celal Tuncer](#), Ondokuzmayıs University, Turkey

[Professor Dr. Erkan YALÇIN](#), Bolu Abant İzzet Baysal University Faculty of Engineering Department of Food Engineering

Gölköy Campus, Bolu Turkey, Turkey

[Prof. Dr. Durdane Yanar](#), Gaziosmanpaşa University, Faculty of Agriculture, Department of Plant Protection, Tokat,

Turkey

[Prof.Dr. Seval Andic](#), Yuzuncu Yil University, Turkey

[Associate Prof.Dr. Tugay Ayasan](#), Osmaniye Korkut Ata University, Osmaniye, Turkey

[Associate Prof. Dr. Sibel Canoğulları Doğan](#), Niğde Üniversitesi, Turkey

[Associate Prof.Dr. Nazlı Ercan](#), Cumhuriyet University, Turkey

[Associate Prof. Dr. Zeki Gökalep](#), Erciyes University, Turkey

[Associate Prof.Dr. Teoman Kankılıç](#), NİĞDE ÖMER HALİSDEMİR ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ

BİYOTEKNOLOJİ BİYOTEKNOLOJİ ABD, Turkey

[Associate Prof. Dr. Elvan Ocak](#), Yuzuncu Yil University, Turkey

[Associate Prof. Dr. M. Setaç ÖZER](#), Çukurova University, Turkey

[Associate Prof.Dr. Hülya Saygı](#), Ege Üniversitesi Su Ürünleri Fakültesi, Turkey

[Associate Prof.Dr. Uğur Serbest](#), Çukurova University, Turkey

[Associate Prof.Dr. Senay Uğur](#), Niğde Üniversitesi, Turkey

[Associate Prof. Dr. Nihat Yesilayer](#), Gaziosmanpaşa University, Faculty of Agriculture, Department of Aquaculture,

Tokat/Turkey, Turkey

[Assistant Prof. Dr. Mustafa Sevindik](#), Osmaniye Korkut Ata University, Turkey

### Regional Editors

[Prof.Dr. Himayatullah Khan](#), Institute of Development Studies KPK Agricultural University, Peshawar, Pakistan

[Prof.Dr. Nazim Husain Laker](#), Bahuddine Zakariya University, Pakistan

[Prof.Dr. Shafiqat Saeed](#), Bahuddine Zakariya University, Pakistan

[Assoc.Prof.Dr. Mohammad Bagher Hassanpouraghdam](#), University of Maragheh, Iran., Iran, Islamic Republic of

### USER

You are logged in as...

**hseleroglu**

- [My Profile](#)
- [Log Out](#)

### LANGUAGE

Select Language

English

### KEYWORDS

[Agriculture](#) [Antioxidant](#)  
[Aquaculture](#) [Broiler](#)  
[Consumption](#) [Food safety](#)  
[Genotype](#) [Germination](#)  
[Growth](#) [Hatay](#) [Health](#) [Heavy](#)  
[metal](#) [Maize](#) [Milk](#) [Nutrition](#)  
[Performance](#) [Protein](#)  
[Quality](#) [Turkey](#) [Wheat](#)  
[Yield](#)

### FONT SIZE

[Journal Help](#)

### JOURNAL CONTENT

Search

Search Scope

All

Search

### Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)



[Dr. Abdul Hannan](#), University of Agriculture, Pakistan  
[Dr. Claudio Ratti](#), University of Bologna, Italy  
[Dr. Dima Alkadri](#), University of the Bologna, Italy  
[Dr. Fernanda Cortez Lopes](#), Federal University of Rio Grande do Sul, Brazil, Brazil  
[Dr. Gheorghe Cristian Popescu](#), University of Pitesti · Department of Applied Sciences and Environment Engineering Romania, Romania  
[Dr. Idrees A. Nasir](#), University of the Punjab, Pakistan  
[Dr. Jelena Zindovic](#), University of Montenegro, Montenegro  
[Dr. Khurram Shahzad](#), Otto von Guericke University, Germany  
[Dr. Muhammad Amjad Ali](#), University of Agriculture, Faisalabad, Pakistan, Pakistan  
[Dr. Muhammad Naeem Sattar](#), University of the Punjab, Sweden  
[Dr. Muhammad Rizwan ShafiqShafiq](#), R. Friedrich-Wilhelms-University, Germany  
[Dr. Muhammad Qasim Shahis](#), National Institute of Agriculture and Biology, Pakistan  
[Dr. Muhammad Younas Khan](#), University of Quetta, Pakistan  
[Dr. Neelesh Sharma](#), Division of Veterinary Medicine Faculty of Veterinary Science & Animal Husbandry, India  
[Dr. Noosheen Zahid](#), University of Nottingham, Malaysia  
[Mr. Jiban Shrestha](#), Nepal Agricultural Research Council, Agriculture Botany Division, Khumaltar, Lalitpur, Nepal

#### Statistics Editor

[Prof. Dr. Soner Cankaya](#), Ondokuz Mayıs University, Turkey  
[Prof. Dr. Hüdaverdi Bircan](#), Cumhuriyet Üniversitesi, Turkey

#### Manuscript Editor

[Dr. Hakan Erinc](#), Niğde Ömer Halisdemir University, Turkey

#### Foreign Relations

[Emre Aksoy](#), Ömer Halisdemir University, Faculty of Agricultural Sciences and Technologies, Turkey



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

ISSN: 2148-127X



Turkish JAF Sci.Tech.

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 \(DOAJ\)](#),
- [Directory indexing of international research journals \(CiteFactor\)](#),
- [Scientific Journal Impact Factor \(SJIF\)](#),
- [Cosmos Impact Factor \(Cosmos\)](#),
- [Index Copernicus \(ICI\)](#),
- [Bielefeld Academic Search Engine \(BASE\)](#),
- [National Library of Australia \(TROVE\)](#),
- [Scientific Indexing Services \(SIS\)](#),
- [Global Impact Factor \(GIF\)](#),
- [Directory of Research Journals Indexing \(DRJI\)](#),
- [WorldCat libraries \(WorldCat\)](#),
- [Information Matrix for the Analysis of Journals \(MIAR\)](#),
- [Ingenta \(Ingenta\)](#),
- [World Agricultural Economics and Rural Sociology Abstracts \(CABI\)](#),
- [Google \(Scholar\)](#),
- [Crossref \(Journals\)](#),
- [The Turkish Academic Network and Information Centre \(ULAKBİM\)](#),
- [ULAKBİM TR Index list of Journals \(TR-INDEX\)](#),





HOME ABOUT USER HOME CATEGORIES SEARCH CURRENT ARCHIVES ANNOUNCEMENTS PUBLICATION FEE

Home > Archives > Vol 8, No 6 (2020)

## Vol 8, No 6 (2020)

### Table of Contents

#### Research Paper

<a href="#">A Laboratory Evaluation for the Potential of Entomopathogenic Fungi against Tribolium castaneum (Herbst.) (Coleoptera: Tenebrionidae)</a>	PDF
Muhammad Akmal, Shoaib Freed, Muhammad Bilal, Muhammad Naeem Malik	1232-1235
<a href="#">Algae and Macrophytes Flora of Karamenderes Stream (Çanakkale, Turkey)</a>	PDF (TÜRKÇE)
Hüseyin Erduğan, Rıza Akgül, Ali Rahmi Firat, Şükran Yalçın Özdişek	1236-1244
<a href="#">Effect of Inlet Air Temperature on the Properties of Spray Dried San-sakng (Albertisia papuana Becc.) Leaf</a>	PDF
Eva Mayasari, Satrijo Saloko, Oke Anandika Lestari, Maria Ulfa	1245-1249
<a href="#">Screening and Selection of Media Components for Protease Production by Bacillus sp. EBTA6 Using Plackett-Burman Design</a>	PDF
Fikriye Alev Akçay, Ayşe Avcı	1250-1255
<a href="#">Relationship between Transportation Conditions and Live Weight After Incubation in Broiler Pure Lines of Different Feathering Rates</a>	PDF (TÜRKÇE)
Kadir Erensoy, Moise Noubandigum, Musa Sarica, Umüt Sami Yamak	1256-1260
<a href="#">Determination of Leaf Area in Some Grape Varieties and Grape Rootstocks</a>	PDF (TÜRKÇE)
Adem Yağcı, Seda Sucu, Namık Yıldız	1261-1265
<a href="#">In Vitro Antibacterial Activities of Various Ethanollic Medicinal Plant Extracts Against Some Human Pathogenic Bacteria</a>	PDF
Samir K. Ali, Ghorbat S. Ali, Berivan Abdulrahman Abdullah	1272-1276
<a href="#">Influence of Conventional Fermentation on Antioxidant Activity and Phenolic Contents of Two Common Dairy Products: Yogurt and Kefir</a>	PDF
Bilge Taşkın, Neriman Bağdatlıoğlu	1277-1282
<a href="#">Determination of Pear Cultivars (Pyrus communis L.) Based on Colour Change Levels by Using Data Mining</a>	PDF
Dilara Gerdan, Abdullah Beyaz, Mustafa Vatandaş	1291-1296
<a href="#">Awareness and Attitude towards Functional Dairy Products among Consumers in Western Province of Sri Lanka</a>	PDF
Narayana Mudiyansele Jayasinghe, Sanjeeva Fernando, Gangani Chandima Samaraweera	1308-1314
<a href="#">Effect of Different Forms and Levels of Urea Fertilizer on Rice (Oryza sativa L.) and Mineral Nitrogen Status in Soil</a>	PDF
MD. Beal Hossain, Rakhi Rani Sarker	1315-1319
<a href="#">Some Chemical Properties of Watermelon Seeds and the Effect of Roasting Process on the Oxidation of Watermelon Seed Oil</a>	PDF (TÜRKÇE)
Deniz Köçeroğlu, Tahir Yücel, Emre Bakkalbaş, İsa Cavidoğlu	1341-1347
<a href="#">Protective Effect of Vitamin C (Ascorbic Acid) Supplementation on Post-Thaw Motility and Fertility of Cryopreserved Rainbow Trout (Oncorhynchus mykiss) Sperm</a>	PDF
Uğur Yavuz, Yusuf Bozkurt	1348-1352
<a href="#">Effect of Alfalfa Meal and Enzyme Use on Performance, Carcass and Intestinal Parameters in Growing Quail Rations</a>	PDF (TÜRKÇE)
Mahmut Mutlu, Alpdemir Yıldız	1353-1358
<a href="#">The Morphological, Physiological and Biochemical Effects of Drought in Different Pepper Genotypes</a>	PDF (TÜRKÇE)
Şebnem Kuşyüran, Sevinç Uslu Kiran, Özlem Altıntaş	1359-1368
<a href="#">Factors Affecting Milk Production in Anatolian Buffalo Herds in Samsun Province of Turkey</a>	PDF
Ercan Bayram, Savaş Atasever	1369-1372
<a href="#">Oxidative stability of soybean oil enriched with ethyl acetate extract of olive by-products</a>	PDF
Semra Turan, Deniz Günel Koroğlu	1373-1379
<a href="#">Determination of Microbial Activity and Quality Traits of Eggs Coated with Propolis</a>	PDF
Sezal Alkan, Ömer Ertürk, İsmail Türker	1380-1384
<a href="#">Determination of Supplying Ways of Breeding Animals for Sheep Enterprises in Ordu Province</a>	PDF (TÜRKÇE)
Sezal Alkan, Zeki Türkmen	1385-1390
<a href="#">Evaluation of Underground Water Quality in Terms of Irrigation Water in Tekirdağ Province</a>	PDF (TÜRKÇE)
Ulviye Çebi	1391-1398
<a href="#">Effects of Using Hazelnut Husk, Wood Shaving and of the Mixture at Different Thicknesses on Broiler Performances, Some Organ Weights, Foot-Pad Dermatitis and Litter Traits</a>	PDF
Musa Sarica, Kadir Erensoy	1399-1404
<a href="#">A Research on Farmer Behaviours and Change of Information Resources in a Last 30 Year Period</a>	PDF (TÜRKÇE)
Özdemir Köksal	1405-1412
<a href="#">Bioinformatics Analysis of Fuqu (Fuqu rubripes) Catalase (cat) Gene</a>	PDF (TÜRKÇE)
Mehrap Bayır, Gökhan Arslan	1413-1417
<a href="#">The Impact of Water and Ethanollic Extracts of Propolis on Fatty Acid Changes of Sardine Fillets</a>	PDF
Aykut Burgut	1418-1425

#### Review Articles

<a href="#">Problems, Suggestions and Last Trends Related to Salsgam Beverage which is Traditional Product of Turkey</a>	PDF
Hasan Tançgüler, Selin Özge Dinç, Sermet Can Beylikci	1266-1271
<a href="#">Conventional Medicine in the Treatment of Different Diseases as a Complementary and Alternative Medicine</a>	PDF
Muhammad Fakhre-Elam Kulyar, Zeeshan Ahmad Bhutta, Moazzam Ali, Shah Nawaz, Muhammad Asif	1283-1285
<a href="#">Nutritional Significance of Tropical Vegetables in Poultry Feeding: A Review</a>	PDF
Muyiwa Adegbenro	1286-1290
<a href="#">Use of Functional Featured Natural Components in Meat Products</a>	PDF (TÜRKÇE)
İgıl İlter, Figen Ertekin	1297-1307
<a href="#">Quality Changes in Sous-Vide Cooked Meat</a>	PDF (TÜRKÇE)
Meltem Serdaroglu, Esra Derin	1320-1330
<a href="#">Investigation of Aroma Release and Rheological Properties in Dairy Desserts with Reduced Fat Content</a>	PDF (TÜRKÇE)
Müge Baysal, Yeşim Elmacı	1331-1340



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

ISSN: 2148-127X



Turkish JAF Sci.Tech.

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),
- Directory indexing of international research journals (CiteFactor),
- Scientific Journal Impact Factor (SJIF),
- Cosmos Impact Factor (Cosmos),
- Index Copernicus (ICI),
- Bielefeld Academic Search Engine (BASE),
- National Library of Australia (TROVE),
- Scientific Indexing Services (SIS),
- Global Impact Factor (GIF),
- Directory of Research Journals Indexing (DRJI),
- WorldCat libraries/WorldCat),
- Information Matrix for the Analysis of Journals (MIAR),
- Ingenta (Ingenta),
- World Agricultural Economics and Rural Sociology Abstracts (CABI),
- Google (Scholar),
- Crossref (Journals),
- The Turkish Academic Network and Information Centre (ULAKBİM),
- ULAKBİM TR Index list of Journals (TR-INDEX),

#### USER

You are logged in as...

- [hseletraj](#)
- [My Profile](#)
- [Log Out](#)

#### LANGUAGE

Select Language

English

#### KEYWORDS

Agriculture [Antioxidant](#) [Aquaculture](#)  
[Broiler Consumption](#) [Fatty acids](#)  
[Genotype](#) [Germination](#) [Growth](#) [Hatay](#)  
[Health](#) [Heavy metal](#) [Milk](#) [Nutrition](#)  
[Performance](#) [Protein](#) [Quality](#)  
[Temperature](#) [Turkey](#) [wheat](#) [Yield](#)

#### FONT SIZE

#### Journal Help

#### JOURNAL CONTENT

Search

Search Scope

All

#### Browse

- [By Issue](#)
- [By Author](#)
- [By Title](#)

