

Turkish Journal of

FOOD &

AGRICULTURE

Sciences



TURJFAS

e-ISSN:2687-3818

YEAR: 2022

VOLUME:4

ISSUE:2

Turkish Journal of **FOOD &**
AGRICULTURE
Sciences



TURJFAS



T U R J F A S

**Turkish Journal of Food and Agriculture
Sciences**

Turk J Food Agric Sci

December

YEAR: 2022
VOLUME:4
ISSUE:2

e-ISSN2687-3818



JOURNAL BOARD

Editor in Chief

Assoc. Prof. Dr. Burhan OZTURK, Ordu University, Ordu, Türkiye

Co-Editors

Assoc. Prof. Dr. Erdal AGLAR, Van Yüzüncü Yıl University, Türkiye

Assoc. Prof. Dr. Harun OZER, Ondokuz Mayıs University, Türkiye

Associate Editors

Agricultural Economics

Assoc. Prof. Dr. Derya OZTURK, Ordu University, Ordu, Türkiye

Animal Sciences

Prof. Dr. Ismail TURKER, Uşak University, Uşak, Türkiye

Biosystems Engineering

Prof. Dr. Ebubekir ALTUNTAS, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Field Crops

Assoc. Prof. Dr. Şahane Funda ARSLANOGLU, Ondokuz Mayıs University, Samsun, Türkiye

Horticulture

Assoc. Prof. Dr. Onur SARACOGLU, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Ornamental and Landscape

Assist. Prof. Dr. Mehmet TUTUNCU, Ondokuz Mayıs University, Samsun, Türkiye

Plant Protection

Prof. Dr. Işık TEPE, Van Yüzüncü Yıl University, Van, Türkiye

Soil and Plant Nutrition

Assoc. Prof. Dr. Halil ERDEM, Tokat Gaziosmanpaşa University, Tokat, Türkiye

Food

Assist. Prof. Dr. Mohammad Wasim SIDDIQUI, Bihar Agricultural University, Bihar, India

Assoc. Prof. Dr. Mahmoud Koushesh SABA, University of Kurdistan, Sanandaj, Iran

Assoc. Prof. Dr. Yunus Emre TUNCIL, Necmettin Erbakan University, Konya, Türkiye



Editorial Board

- Prof. Dr. Aysun PEKSEN, Ondokuz Mayıs University, Samsun, Türkiye
Prof. Dr. Cafer KOSE, Atatürk University, Erzurum, Türkiye
Assoc. Prof. Dr. Clive KAISER, Lincoln University, Canterbury, New Zealand
Prof. Dr. Ilker KEPENEKCI, Tokat Gaziosmanpaşa University, Tokat, Türkiye
Msc. Jiban SHRESTHA, Nepal Agricultural Research Council, Dhankuta, Nepal
Prof. Dr. Kenan YILDIZ, Tokat Gaziosmanpaşa University, Tokat, Türkiye
Prof. Dr. Khalid JAVED, University of Veterinary and Animal Sciences, Lahore, Pakistan
Assoc. Prof. Dr. Mehtap OZBAKIR OZER, Black Sea Agriculture Research Institute, Samsun, Türkiye
Prof. Dr. Mohammad Shafiur RAHMAN, Sultan Qaboos University, Al-khod, Sultanate of Oman
Prof. Dr. Muttalip GUNDOĞDU, Bolu Abant İzzet Baysal University, Bolu, Türkiye
Prof. Dr. Renata NURZYNSKA WIERDAK, University of Life Sciences in Lublin, Lublin, Poland
Prof. Dr. Rustem CANGI, Tokat Gaziosmanpaşa University, Tokat, Türkiye
Prof. Dr. Sedat KARAMAN, Tokat Gaziosmanpaşa University, Tokat, Türkiye
Prof. Dr. Sezai ALKAN, Ordu University, Ordu, Türkiye
Prof. Dr. Yakup OZKAN, Eskişehir Osmangazi University, Eskişehir, Türkiye
Prof. Dr. Zora SINGH, Murdoch University, Perth, Australia

Statistics Editor

- Assist. Prof. Dr. Yeliz KAŞKO ARICI, Ordu University, Ordu, Türkiye
Dr. Davut CANLI, Ordu University, Ordu, Türkiye

Language Editor

- Lecturer Sinan ALYURT, Kafkas University, Kars, Türkiye

Graphic Design

- Lecturer Elif CILAVDAROĞLU, Ondokuz Mayıs University, Samsun, Türkiye

Social Media

- PhD Student Sefa GUN, Ordu University, Ordu, Türkiye
PhD Student Umut ATES, Ordu University, Ordu, Türkiye
MSc Student Mestan HISARKAYA, Ordu University, Ordu, Türkiye



Journal Information

Journal Name	: <i>Turkish Journal of Food and Agriculture Sciences</i>
Abbreviation	: <i>Turk J Food Agric Sci</i>
e-ISSN	: 2687-3818
Doi	: https://doi.org/10.53663/turjfas.articleID
Language	: <i>English</i>
Frequency	: <i>Biannually (June and December)</i>
Type of Publication	: <i>Independent international double-blinded peer-review scientific journal</i>
Indexed and abstracted in	: <i>CABI, CAB ABSTRACT, EBSCO, Google Academic, Crossref, ASOS</i>
Manuscript Submission and Tracking System	: <i>TURJFAS uses the submission system of TUBITAK ULAKBIM (a journal management and publication system), https://dergipark.org.tr/en/pub/turjfas</i>
Publisher	: <i>Burhan ÖZTÜRK</i>
Owner	: <i>Burhan ÖZTÜRK</i>
License	: <i>Journal is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License</i>
Legal Responsibility	: <i>Authors are responsible for content of articles that were published in TUJFAS</i>
Address	: <i>Ordu University, Faculty of Agriculture, Department of Horticulture, Ordu, Türkiye</i>
Contact	: <i>Burhan Ozturk</i> E-mail: burhanozturk55@gmail.com or turjfas@gmail.com Phone: +905062036255



Reviewer list of the issue

Ali GÜNCAN
Ali TEKGÜLER
Aqsa AMEER
Azize ATİK
Ebubekir ALTUNTAŞ
Engin ÖZGÖZ
Erol AYDIN
Halide AYDEMİR
Halil ERDEM
Haydar KURT
Hüseyin İrfan BALIK
Kahraman İPEKDAL
Kibar AK
Mehmet AKGÜN
Melike DEMİRKOL
Mustafa BAYRAM
Nurhan MUTLU
Onur SARAÇOĞLU
Ömer Faruk ÇELİK
Saadet KOÇ GÜLER
Serkan İÇ
Serkan UZUN
Sezer ŞAHİN

CONTENTS

Authors	Title	Pages
Research articles		
Umut Ateş Orhan Karakaya Süleyman Muhammed Çelik Ahmad Haseeb Faizy	Bioactive compounds of strawberry tree (<i>Arbutus unedo</i> L.) genotypes grown in the East Black Sea and Marmara regions	29-33
Zaki Ahmad Faizi	Changes in microbial quality of fruit juices, syrups, and ready-to-serve carbonated drinks produced with different processing parameters and stored in different conditions within six months	34-40
Sahadeb Sarkar Soumya Majumder Arindam Ghosh Sumedha Saha Sukanya Acharyya Sourav Chakraborty Malay Bhattacharya	Metabolomic exploration of CTC tea manufacturing waste validates its potentiality as organic fertilizer	41-48
Agbai Williams Perekekeme Joseph Oyinbrakemi Tate	The short term effect of tillage on soil physicochemical properties in Bayelsa State, Nigeria	49-56
Burak Akyüz İslam Saruhan Ümit Serdar	Damage ratio of the Asian chestnut gall wasp, <i>Dryocosmus kuriphilus</i> Yasumatsu, 1951 (Hemiptera: Cynipidae) in Samsun Province of Türkiye: First Report	57-59
Ayşenur Pekcan Fatma Coşkun Ömer Öksüz	Comparison of hardaliye produced by different starters: Back-slopping and kombucha	60-68
Kader Sali Burhan Ozturk Mithat Akgun Umut Ates	Effect of drying methods on the sensory attributes of hazelnut cultivars in different sizes throughout the storage	69-75