

VOLUME | ISSUE | YEAR  
44 | 1 | 2020  
ISSN 1300-011X • E-ISSN 1303-6173

TURKISH JOURNAL OF  
**AGRICULTURE  
& FORESTRY**

<http://journals.tubitak.gov.tr/agriculture/>



Published by the Scientific and  
Technological Research Council of Turkey

**TÜBİTAK**

# TURKISH JOURNAL OF AGRICULTURE AND FORESTRY

Editor-in-Chief

Sezai ERCİŞLİ, Atatürk University, Turkey

Assistant Editor-in-Chief

Müttalip GÜNDOĞDU, Abant İzzet Baysal University, Turkey

VOLUME 44 • ISSUE 1 • 2020

ISSN 1300-011X • E-ISSN 1303-6173

## SCOPE OF JOURNAL

- The Turkish Journal of Agriculture and Forestry is published electronically 6 times a year by the Scientific and Technological Research Council of Turkey (TÜBİTAK).
- It publishes, in English, full-length original research papers and solicited review articles on advances in agronomy, horticulture, plant breeding, plant protection, plant molecular biology and biotechnology, soil science and plant nutrition, bionergy and energy crops, irrigation, agricultural technologies, plant-based food science and technology, forestry, and forest industry products.
- Review articles are only accepted upon invitation by the editorial board and will still be subject to the same review process required of regular submissions. Manuscripts must be based on original research and contain novel findings of general significance.

Studies that:

1. merely confirm known facts in just another species or materials or collected materials from fields or markets;
2. are only of local interest;
3. are based on surveys, material collection, or economic data, and/or are related to planning and policy; or
4. report new records and taxonomy outside the scope of the journal and will normally not be considered for publication.

## EDITORIAL BOARD

- Ahmet ÇELİK, Atatürk University, Turkey
- Ahmet KAZANKAYA, Yüzüncü Yıl University, Turkey
- Ali ERGÜL, Ankara University, Turkey
- Anne FRARY, İzmir Institute of Technology, Turkey
- Antonio PIZZI, University of Lorraine, France
- Attila HEGEDUS, Corvinus University, Hungary
- Ayhan TOPUZ, Akdeniz University, Turkey
- Ayten NAMLI, Ankara University, Turkey
- Bekir Erol AK, Harran University, Turkey
- Boris DURALIJA, University of Zagreb, Croatia
- Cem ÖZKAN, Ankara University, Turkey
- Cindy E. PRESCOTT, University of British, Canada
- Çiğdem ULUBAŞ SERÇE, Niğde University, Turkey
- Davut KARAYEL, Akdeniz University, Turkey
- Ender MAKİNECİ, İstanbul University, Turkey
- Erdal Necip YARDIM, Bitlis Eren University, Turkey
- Erol YILDIRIM, Atatürk University, Turkey
- Esra Çapanoğlu GÜVEN, İstanbul Technical University, Turkey
- Faheem Shehzad BALOCH, Bolu Abant İzzet Baysal University, Turkey
- Fahrettin TİLKİ, Çoruh University, Turkey
- Franci STAMPAR, Ljubljana University, Slovenia
- Gökhan SÖYLEMEZOĞLU, Ankara University, Turkey
- Hakan ÖZER, Atatürk University, Turkey
- Hakan ÖZKAN, Çukurova University, Turkey
- Hatice ÖZAKTAN, Ege University, Turkey
- Hüsnü DEMİRSOY, Ondokuz Mayıs University, Turkey
- Işık TEPE, Yüzüncü Yıl University, Turkey
- İsmail Alper SUSURLUK, Uludağ University, Turkey
- Karim SORKHEH, Shahid Chamran University of Ahwaz, Iran
- Máthé Ákos, West Hungarian University, Hungary
- Maurizio LAMBARDI, CNR National Research Council, Italy
- Mehmet Eşref İRGET, Ege University, Turkey
- Mehmet Hakkı ALMA, Iğdır University, Turkey
- Mehmet Rüştü KARAMAN, Afyon Kocatepe Üniversitesi, Turkey
- Mehraj ABBASOV, Genetic Resource Institute of ANAS, Baku, Azerbaijan
- Mohammad Bagher HASSANPOURAGHDAM, University of Maragheh, Iran
- Muhammad Amjad NAWAZ, Chonnam National University, South Korea
- Muhammad ZIA-UL-HAQ, Lahore College for Women University, Pakistan
- Muhammed Bahattin TANYOLAÇ, Ege University, Turkey
- Mustafa ERKAN, Akdeniz University, Turkey
- Nadir AYRILMIŞ, İstanbul University, Turkey
- Nazım ŞEKERÖĞLU, Kilis 7 Aralık University, Turkey
- Nebahat SARI, Çukurova University, Turkey
- Osman SAĞDIÇ, Yıldız Technical University, Turkey
- Peter NIEMZ, ETH Zurich, Switzerland
- Radu E. SESTRAS, University of Agricultural Sciences and Veterinary Medicine Cluj, Napoca, Romania
- Renata NURZYNSKA-WIERDAK, University of Life Sciences in Lublin, Poland
- Ruhsar YANMAZ, Ankara University, Turkey
- Rupert WIMMER, Universität für Bodenkultur Wien, Austria
- Salih KAFKAS, Çukurova University, Turkey
- Silvana NICOLA, Università degli di Torino, Italy
- Suat ŞENSOY, Van Yüzüncü Yıl University, Turkey
- Tarık YARILGAÇ, Ordu University, Turkey
- Taşkın ÖZTAŞ, Ataturk University, Turkey
- Tohru TOMINAGA, Kyoto University, Japan
- Tunde JURIKOVA, Constantine the Philosopher University, Slovak Republic
- Üstün ŞAHİN, Atatürk University, Turkey
- Vahdettin ÇİFTÇİ, Abant İzzet Baysal University, Turkey
- Virginia STOCKWELL, Oregon State University, U.S.A.
- Yıldız AKA KAÇAR, Çukurova University, Turkey

## ABSTRACTED AND INDEXED

- Science Citation Index Expanded
- Scopus
- Academic Search Complete

# CONTENTS

Genetic diversity analysis in the Turkish pepper germplasm using iPBS retrotransposon-based markers.....	1
<b>Mehtap YILDIZ, Metin KOÇAK, Muhammad Azhar NADEEM, Pablo CAVAGNARO, Karina BARBOZA, Faheem Shahzad BALOCH, Duygu ARGÜN, Davut KELEŞ</b>	
Identification, phylogenetic analysis, and expression patterns of the SAUR gene family in loquat ( <i>Eriobotrya japonica</i> ).....	15
<b>Xiaoqing GAN, Yi JING, Muhammad Qasim SHAHID, Yehua HE, Faheem Shahzad BALOCH, Shunquan LIN, Xianghui YANG</b>	
Comparison of extraction methods optimised by RSM for extraction of some bioactives from liquorice samples .....	24
<b>Fahriye Şeyma ÖZCAN, Nihat ÖZCAN, Ahmet Abdullah US, Osman SAĞDIÇ</b>	
Effect of cereal cyst nematode <i>Heterodera filipjevi</i> on wheat yields in Turkey .....	39
<b>Mustafa İMREN, Şenol YILDIZ, Vahdettin ÇİFTÇİ, Abdelfattah DABABAT</b>	
Macro- and micromineral contents of different quinoa ( <i>Chenopodium quinoa</i> Willd.) varieties used as forage by cattle.....	46
<b>Mustafa TAN</b>	
Heritability estimates and the variation of pomological traits, total phenolic compounds, and antioxidant capacity in two apricot progenies.....	54
<b>Fırat Ege KARAAT, Sedat SERÇE</b>	
Comparison of unmanaged and managed Trojan Fir–Scots pine forests for structural complexity .....	62
<b>Ferhat KARA, John M. LHOTKA</b>	
Changes in endogenous auxin level during flower bud abscission process in Pistachio ( <i>Pistacia vera</i> L.).....	71
<b>Muhammet Ali GÜNDEŞLİ, Salih KAFKAS, Murat GÜNEY, Nesibe Ebru KAFKAS</b>	
Comparison of metamitron efficiency for postbloom thinning of young ‘Gala’ and ‘Golden Delicious’ apple trees .....	83
<b>Dragan RADIVOJEVIC, Jasminka MILIVOJEVIC, Milos PAVLOVIC, Matej STOPAR</b>	
Agronomic traits of einkorn and emmer under different seeding rates and topdressing with organic fertilizers .....	95
<b>Ana POSPIŠIL, Milan POSPIŠIL, Marina BRČIĆ</b>	

---