# TURKISH JOURNAL OF AGRICULTURE & FORESTRY

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



# TURKISH JOURNAL OF AGRICULTURE AND FORESTRY

**Editor-in-Chief** Sezai ERCİSLİ Atatürk University, Turkey **VOLUME 43 • ISSUE 5 • 2019** 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:

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

### **EDITORIAL BOARD**

- Ahmet CELİK, 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
- Avhan 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 MAKINECI, Istanbul University, Turkey Erdal Necip YARDIM, Bitlis Eren University, Turkey
- Erol YILDIRIM, Atatürk University, Turkey
- Esra Çapanoğlu GÜVEN, Istanbul Technical University, Turkey
- Faheem Shehzad BALOCH, Bolu Abant İzzet Baysal University, Turkey
- Fahrettin TİLKİ, Çoruh University, Turkey
- Franci STAMPAR, Ljubliana University, Slovenia
- Gökhan SÖYLEMEZOĞLU, Ankara University, Turkey
- Hakan ÖZER, Atatürk University, Turkey
- Hakan ÖZKAN, Cukurova University, Turkey
- Hatice ÖZAKTAN, Ege 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
- 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 ŞEKEROĞLU, Kilis 7 Aralık University, Turkey
- Nebahat SARI, Cukurova 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, Universita degli di Torino, Italy
- Suat SENSOY, Van Yüzüncü Yıl University, Turkey
- · Tarık YARILGAÇ, Ordu University, Turkey
- Taşkın ÖZTAŞ, Ataturk University, Turkey Tohru TOMINAGA, Kvoto 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

A comparative analysis of the volatile components of green tea produced from various tea cultivars in China Lin-long MA, Dan CAO, Yan-li LIU, Zi-ming GONG, Pan-pan LIU, Xiao-fang JIN	451
Molecular characterization of apple ( <i>Malus</i> × <i>domestica</i> Borkh.) genotypes originating from three complementary conservation strategies	464
Anca BUTIUC-KEUL, Ana COSTE, Anca FARKAS, Victoria CRISTEA, Valentina ISAC, Adela HALMAGYI	
Effects of cooking and extra virgin olive oil addition on bioaccessibility of carotenes in tomato sauce	478
The effects of mistletoe ( <i>Viscum album</i> L.) on the physiological properties of some drupe trees in Turkey	485
Effects of depth-dependent irrigation regimes and organomineral fertilizers on water use and quality attributes of sugar beet	492
The influence of exogenous capsaicin application on the germination, seedling growth, and yield of pepper Levent ARIN, Çağatay ARABACI	500