

TURJAF

7(SP2): 2019



Special Issue of Turkey 13th National, 1st International
Field Crops Conference-TABKON 2019

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



EDITOR IN CHIEF

MUSA SARICA, PROF.DR.
ONDOKUZ MAYIS UNIVERSITY, TURKEY

MANAGING EDITOR

AHMET ŞEKEROĞLU, PROF.DR.
NİĞDE ÖMER HALISDEMİR UNIVERSITY, TURKEY

TECHNICAL EDITOR

HASAN ELEROĞLU, ASSOC. PROF. DR.
CUMHURİYET UNIVERSITY, TURKEY

AREA EDITORS

EBUBEKİR ALTUNTAŞ, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

ZEKİ BAYRAMOĞLU, PROF.DR.
SELCUK UNIVERSITY, TURKEY

SEVGI ÇALIŞKAN, PROF.DR.
ÖMER HALISDEMİR ÜNİVERSİTESİ, TURKEY

SUAT DİKEL, PROF.DR.
ÇUKUROVA UNIVERSITY, TURKEY

SEDAT KARAMAN, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

KADIR SALTALI, PROF.DR.
K. SÜTÇÜ İMAM UNIVERSITY, TURKEY

CIGDEM SERCE, PROF.DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

YUSUF YANAR, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

METİN YILDIRIM, PROF.DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

EKREM MUTLU, ASSOC. PROF. DR.
KASTAMONU UNIVERSITY, TURKEY

YUSUF ZİYA OĞRAK, ASSOC. PROF.DR.
CUMHURİYET UNIVERSITY, TURKEY

HATİRA TAŞKIN, ASSOC. PROF. DR.
ÇUKUROVA UNIVERSITY, TURKEY

ARDA YILDIRIM, ASSOC. PROF. DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

EMRE AKSOY, DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

STATISTICS EDITOR

SONER ÇANKAYA, PROF. DR.
ORDU UNIVERSITY, TURKEY

HÜDAVERDİ BİRCAN, PROF.DR.
CUMHURİYET ÜNİVERSİTESİ, TURKEY

ADNAN ÜNALAN, ASSOC. PROF. DR.
NİĞDE ÖMER HALISDEMİR UNIVERSITY, TURKEY

SECTION EDITORS

ETHEM AKYOL, PROF. DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

SEVAL ANDIÇ, PROF. DR.
YUZUNCU YIL UNIVERSITY, TURKEY

MUSTAFA AVCI, PROF.DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

NERİMAN BAĞDATLIOĞLU, PROF.DR.
CELAL BAYAR UNIVERSITY, TURKEY

SEVGI ÇALIŞKAN, PROF.DR.
NİĞDE ÖMER HALISDEMİR ÜNİVERSİTESİ, TURKEY

MEHMET EMİN ÇALIŞKAN, PROF.DR.
HALISDEMİR UNIVERSITY, TURKEY

HÜSEYİN ERTEN, PROF.DR.
ÇUKUROVA UNIVERSITY, TURKEY

TURGUT CABAROĞLU, PROF.DR.
ÇUKUROVA UNIVERSITY, TURKEY

AYHAN CEYHAN, PROF. DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

ÖMER CAMCI, PROF.DR.
MUSTAFA KEMAL UNIVERSITY, TURKEY

YUSUF DEMİR, PROF.DR.
ONDOKUZMAYIS UNIVERSITY, TURKEY

VEDAT CEYHAN, PROF.DR.
ONDOKUZMAYIS UNIVERSITY, TURKEY

ADNAN ÇİÇEK, PROF. DR.
GAZIOSMANPAŞA ÜNİVERSİTESİ, TURKEY

SUAT DİKEL, PROF.DR.
ÇUKUROVA UNIVERSITY, TURKEY

ALPER DURAK, PROF.DR.
INONU UNIVERSITY, TURKEY

GÜLISTAN ERDAL, PROF.DR.
GAZIOSMANPAŞA ÜNİVERSİTESİ, TURKEY

ORHAN GÜNDÜZ, PROF. DR.
MALATYA TURGUT ÖZAL UNIVERSITY, TURKEY

İZZET KADIOĞLU, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

SEDAT KARAMAN, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

MUSTAFA KARHAN, PROF.DR.
AKDENİZ ÜNİVERSİTESİ, TURKEY

OSMAN KARKACIER, PROF.DR.
AKDENİZ UNIVERSITY, TURKEY

G. TAMER KAYAALP, PROF.DR.
CUKUROVA UNIVERSITY, TURKEY

HALİL KIZILASLAN, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

NURAY KIZILASLAN, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

KÜRŞAT KORKMAZ, PROF. DR.
ORDU UNIVERSITY, TURKEY

MEHMET KURAN, PROF.DR.
ONDOKUZMAYIS UNIVERSITY, TURKEY

HASAN RÜŞTÜ KUTLU, PROF.DR.
CUKUROVA UNIVERSITY, TURKEY

KADIR SALTALI, PROF.DR.
K. SUTCU İMAM UNIVERSITY, TURKEY

ZELİHA SELAMOĞLU, PROF. DR.
NİĞDE UNIVERSITY, TURKEY

AHMET ŞAHİN, PROF.DR.
AHI EVRAN ÜNİVERSİTESİ, TURKEY

CEVDET ŞEKER, PROF.DR.
SELCUK UNIVERSITY, TURKEY

İBRAHİM TAPKI, PROF.DR.
MUSTAFA KEMAL UNIVERSITY, TURKEY

CELAL TUNCER, PROF.DR.
ONDOKUZMAYIS UNIVERSITY, TURKEY

YUSUF YANAR, PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

METİN YILDIRIM, PROF.DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

ZELİHA YILDIRIM, PROF.DR.
ÖMER HALISDEMİR ÜNİVERSİTESİ, TURKEY

ZEKİ BAYRAMOĞLU, PROF.DR.
SELCUK UNIVERSITY, TURKEY

TUGAY AYASAN, ASSOC. PROF.DR.
OSMANIYE KORKUT ATA UNIVERSITY, TURKEY

SİBEL CANOĞULLARI DOĞAN, ASSOC. PROF. DR.
ÖMER HALISDEMİR ÜNİVERSİTESİ, TURKEY

NAZLI ERCAN, ASSOC. PROF.DR.
CUMHURİYET UNIVERSITY, TURKEY

ZEKİ GÖKALP, ASSOC. PROF. DR.
ERCIYES UNIVERSITY, TURKEY

TEOMAN KANKILIÇ, ASSOC. PROF.DR.
NİĞDE ÖMER HALISDEMİR ÜNİVERSİTESİ, TURKEY

ELVAN OCAK, ASSOC. PROF. DR.
YUZUNCU YIL UNIVERSITY, TURKEY

M. SETAÇ ÖZER, ASSOC. PROF. DR.
ÇUKUROVA UNIVERSITY, TURKEY

HÜLYA SAYGI, ASSOC. PROF.DR.
EGE ÜNİVERSİTESİ, TURKEY

UĞUR ŞERBESTER, ASSOC. PROF.DR.
ÇUKUROVA UNIVERSITY, TURKEY

HASAN TANGÜLER, ASSOC.PROF.DR.
ÖMER HALISDEMİR ÜNİVERSİTESİ, TURKEY

HATİRA TAŞKIN, ASSOC. PROF. DR.
ÇUKUROVA UNIVERSITY, TURKEY

NECATİ BARIŞ TUNCEL, ASSOC. PROF.DR.
ONSEKİZMART UNIVERSITY, TURKEY

SENAY UĞUR, ASSOC. PROF.DR.
NİĞDE ÜNİVERSİTESİ, TURKEY

NIHAT YESİLAYER, ASSOC. PROF.DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

DURDANE YANAR, ASSOC. PROF. DR.
GAZIOSMANPAŞA UNIVERSITY, TURKEY

MUSTAFA SEVİNDİK, DR.
AKDENİZ UNIVERSITY, SCIENCE FACULTY, TURKEY

GUEST EDITOR (SPECIAL ISSUE 2 - TABKON 2019)

MUHARREM KAYA PROF. DR.
ISPARTA UNIVERSITY OF APPLIED SCIENCES, TURKEY



REGIONAL EDITORS

HIMAYATULLAH KHAN, PROF.DR.
KPK AGRICULTURAL UNIVERSITY, PAKISTAN

NAZIM HUSAIN LABER, PROF.DR.
BAHUDDINE ZAKARIYA UNIVERSITY, PAKISTAN

SHAFQAT SAEED, PROF.DR.
BAHUDDINE ZAKARIYA UNIVERSITY, PAKISTAN

M.B. HASSANPOURAGHDAM, ASSOC.PROF.DR.
UNIVERSITY OF MARAGHEH, IRAN.

ABDUL HANNAN, DR.
UNIVERSITY OF AGRICULTURE, PAKISTAN

ALICE DELBIANCO, DR.
UNIVERSITY OF BOLOGNA, ITALY

ALLAH BAKHSH, DR.
NIGDE ÖMER HALISDEMİR UNIVERSITY, TURKEY

CLAUDIO RATTI, DR.
UNIVERSITY OF BOLOGNA, ITALY

DIMA ALKADRI, DR.
UNIVERSITY OF THE BOLOGNA, ITALY

FAHEEM SHEHZAD BALOCH, DR.
ABANT İZZET BAYSAL UNIVERSITY, TURKEY

FERNANDA CORTEZ LOPES, DR.
FEDERAL UNIVERSITY OF RIO GRANDE, BRAZIL

GHEORGHE CRISTIAN POPESCU, DR.
UNIVERSITY OF PITESTI, ROMANIA

IDREES A. NASIR, DR.
UNIVERSITY OF THE PUNJAB, PAKISTAN

JELENA ZINDOVIC, DR.
UNIVERSITY OF MONTENEGRO, MONTENEGRO

KHALID MEHMOOD, DR.
UNIVERSITY OF COPENHAGEN, DENMARK

KHURRUM SHAHZAD, DR.
OTTO VON GUERICKE UNIVERSITY, GERMANY

MUHAMMAD AMJAD ALI, DR.
UNIVERSITY OF AGRICULTURE, PAKISTAN

MUHAMMAD ISHAQ ASIF REHMANI, DR.
UNIVERSITY OF AGRICULTURE, PAKISTAN

MUHAMMAD NAEEM SATTAR, DR.
UNIVERSITY OF THE PUNJAB, SWEDEN

MUHAMMAD RIZWAN SHAFIQ SHAFIQ, R. DR.
FRIEDRICH-WILHELMS-UNIVERSITY, GERMANY

MUHAMMAD QASIM SHAHIS, DR.
N. INSTITUTE OF AGRICULTURE AND BIOLOGY, PAKISTAN

MUHAMMAD YOUNAS KHAN, DR.
UNIVERSITY OF QUETTA, PAKISTAN

JIBAN SHRESTHA, MR.
NEPAL AGRICULTURAL RESEARCH COUNCIL, NEPAL

NEELESH SHARMA, DR.
SHER-E-KASHMIR UNIVERSITY, INDIA

NOOSHEEN ZAHID, DR.
UNIVERSITY OF NOTTINGHAM, MALAYSIA

MANUSCRIPT EDITOR

MUSTAFA DUMAN, DR.
NIGDE UNIVERSITY, TURKEY

HAKAN ERİNÇ, DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

BURAK ŞEN, DR.
HALISDEMİR UNIVERSITY, TURKEY

FOREIGN RELATIONS

EMRE AKSOY, DR.
ÖMER HALISDEMİR UNIVERSITY, TURKEY

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

Toplam Dergi: 1		Konu Alanı Gizle ✓			
Dergi Adı	ISSN	e-ISSN	Yıl	Konu Alanı	
Türk Tarım - Gıda Bilim ve Teknoloji dergisi	2148-127X	2148-127X	2019	Fen	Mühendislik > Gıda Bilimi ve Teknolojisi Ziraat > Ziraat, Ortak Disiplinler
			2018	Fen	Mühendislik > Gıda Bilimi ve Teknolojisi Ziraat > Ziraat, Ortak Disiplinler
			2017	Fen	Mühendislik > Gıda Bilimi ve Teknolojisi Ziraat > Ziraat, Ortak Disiplinler
			2016	Fen	Mühendislik > Gıda Bilimi ve Teknolojisi Ziraat > Ziraat, Ortak Disiplinler
			2015	Fen	Mühendislik > Gıda Bilimi ve Teknolojisi Ziraat > Ziraat, Ortak Disiplinler
			2014	Fen	Mühendislik > Gıda Bilimi ve Teknolojisi Ziraat > Ziraat, Ortak Disiplinler

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),





RESEARCH PAPER

-  Yield and Quality Performances of Hybrid Tobacco Developed for Gümüşhacıköy Basma Region
Ahmet Kınay, Dursun Kurt, Erdem Karakoç
1
-  Some Morphological Characteristics Used in the Identification of Landraces Oat Genotypes in Central and Western Black Sea Region
Zeki Mut, Hasan Akay, Özge Doğanay Erbaş Köse, İsmail Sezer, Fatih Öner
7
-  Changes within the Daytime of Essential Oil Content and Composition of Zahter (*Thymbra spicata* L.) Grown in Ermenek Conditions
Hasan Maral, Saliha Kırıcı
13
-  Zinc Fertilizer Request of Black Cumin (*Nigella sativa* L.) Grown in Soil Mixed with Different Proportions of Vermicompost
Ayşen Akay
17
-  Modeling of Growth Degree-Day Values of Tomato (*Solanum lycopersicum* L.) Plant: The Case of Çukurova Region
Ali Yücel, Atilgan Atılğan, Hakan Aktaş
23
-  Effects of Selenium Applications on Salt Stress in Sage and Mountain Tea
YMahmut Çamlıca, Gülsüm Yıldız, Ferit Özen, Abdurrahman Başol, Halit Aşkan
29
-  The Effect of Hydrosols Obtained from Sage Grown with Selenium Application on Germination of Fenugreek and Coriander Seeds
Ferit Özen, Gülsüm Yıldız, Mahmut Çamlıca, Halit Aşkan, Abdurrahman Başol
36
-  Determination of Possible Energy Potential of Banana Residues in Turkey
Bahadır Demirel, Hasan Pınar
41
-  Evaluation of Nutrients and Biological Activities of Kenger (*Gundellia tournefortii* L.) Seeds Cultivated in Sivas Province
Handan Saraç, Ahmet Demirbaş, Sevgi Durna Daştan, Mehmet Atas, Özge Çevik, Nuraniye Eruygur
52
-  IDetermination of Storage Responses and Quality Changes of Some Potato (*Solanum tuberosum* L.) Cultivars During Storage
Arif Şanlı, Sena Özcan, Fatma Zehra Ok
59
-  Bioactivity and Therapeutic Properties of Evelik (*Rumex crispus*), A Naturally Growing and Edible Plant in Sivas Province
Sevgi Durna Daştan, Hasan Durukan, Ahmet Demirbaş, Erol Dönmez
67
-  The Effect of Nitrogen Dosage Applications on Yield and Quality in Durum Wheat (*Triticum durum* Desf.)
İlknur Akgün, Üner Ulupınar
72
-  Endosymbiotic Microorganisms in Rice Weevil *Sitophilus oryzae* (L.) Populations
Erhan Koçak, Mehmet Oğuz Yaman
82
-  Effect of Different Gamma Ray Doses on Some Agricultural Characteristics of Two Row Barley (*Hordeum vulgare* L.)
İlknur Akgün, Tuğçe Aysa Karakoca, Ruziye Karaman
86
-  Endosymbiont Microorganisms in Rusty Grain Beetle *Cryptolestes ferrugineus* (L.) Populations
Erhan Koçak, Hüseyin Ünal
93
-  Isparta Koşullarında Yetiştirilen Kırmızı Mercimek Çeşitlerinin Verim ve Verim Ögelerinin Belirlenmesi
Ayşegül Beşok Küçükay, Aykut Şener, Muharrem Kaya
97
-  Effects of Different Salt Concentrations on Germination and Early Seedling Growth in Sugar Maize (*Zea mays* L. Var. *sacharata* sturt.) Cultivars
Hasan Akay, Elif Öztürk, İsmail Sezer, Murat Can Bahadır
103
-  The Effects of Biochar and Cadmium Applications on Yield and Nutrient Uptake of Maize Plant
Ahmet Demirbaş, Ali Coşkan
109
-  Influence of Bacteria Isolated from Different Ecological Zone of Turkey on Maize Growth and Nutrient Uptake
D Amer Abdulhadi Jawad, Ali Coşkan
115
-  Effects of Rose Residue, Manure and Inoculation on Yield and Some Yield Components in Chickpea (*Cicer arietinum* L.) Cultivation
Bünyamin Aldemir, Ruziye Karaman, Muharrem Kaya
121

RESEARCH PAPER

-  The Effect of The Seed Colour and Seed Weight on Seed Vigour of Linseed (*Linum usitatissimum* L.)
Orhan Kurt, Safa Hacıkamiloğlu, Naziha El Bey
128
-  Phenotypic Early Generation Selections in Some Hybrid Potato Combinations
Özge Koyutürk, Güngör Yılmaz, Rahime Karataş, Başak Özyılmaz, Aşlı Yılmaz, İlker Polat, Levent Yazıcı
133
-  The effects of *Isatis tinctoria* extract on diseases resistance against *Aeromonas hydrophila* and pigmentation, growth of *Pseudotropheus acei*
Muhammed Bıyıklı, Seval Bahadır Koca, Nalan Özgür Yiğit, Seçil Metin, Nimet Kara, Gökhan Gürbüz
137
-  A Study on Determination of Suitable Germination Temperature in Safflower (*Carthamus tinctorius* L.)
Orhan Kurt, Alper Anıl Şenel, Naziha El Bey, Merve Göre
142
-  Evaluation of Oat (*Avena sativa* L.) Genotypes for Yield and Some Quality Parameters in Trakya-Marmara Region
Turhan Kahraman, Asiye Seis Subaşı, Özge Yıldız, Ceylan Büyükkileci, Turgay Sanal
145
-  Correlation between the Agronomical Characteristics and Essential Oil Content of *Origanum onites* L. and *Melissa officinalis* L.
Ayşe Betül Avcı, Refika R Akcalı Giachino
152
-  Effects of Different Sowing Densities on Some Agronomic Characteristics of *Camelina* (*Camelina sativa* L.)
Güngör Yılmaz, Şaziye Dökülen, Ahmet Kınay
157
-  Effects of Different Doses of Plant Growth Regulators on Some Characteristics of Summer Snowflakes (*Leucojum aestivum* L.)
Mehmet Uğur Yıldırım, İbrahim Bulduk, Ercüment Osman Sarıhan, Gözde Küçük, Sinem Tuğçe Cin, Ahmet İzmirli
163
-  Determination of Germination Properties of Some Alfalfa Cultivars in Different Salt Concentrations
Mustafa Yılmaz, Ganze Bayram
169
-  Determination of Morphologic Characteristics of Wild Type Sunflower (*Helianthus* spp.) Genotypes
Kübra Doğan Tosun, Nazan Dağüstü
177
-  Application of GA3 (Gibberellic Acid) and Kinetin Plant Growth Agents in Relieving the Effects of Salt (NaCl) Stress on Germination and Seedling Growth of Common Vetch (*Vicia sativa* L.) Seeds
Ebru Dinler, Cahit Balabanlı, Emre Bıçakçı
188
-  Determination of Yield and Some Properties of Different Silage Corn Varieties in Isparta Ecological Conditions
Mehmet Alagöz, Mevlüt Türk
193

REVIEW ARTICLES

-  Threats to Biodiversity Bio-Trafficking in Turkey
Orhan Kurt, Nurya Çelik, Merve Göre, Haydar Kurt
46
-  Importance of Thyme in Animal Health and Nutrition
Cahit Balabanlı, Emre Bıçakçı, Müge Güvenç
183