



Tekirdağ Ziraat Fakültesi Dergisi
Journal of Tekirdag Agricultural Faculty
NAMIK KEMAL ÜNİVERSİTESİ

An International Journal of all Subjects of Agriculture

The Special Issue of 2nd International Balkan Agriculture Congress, May 16-18, 2017

Sahibi / Owner

Namık Kemal Üniversitesi Ziraat Fakültesi Adına
On Behalf of Namık Kemal University Agricultural Faculty
Prof.Dr. Ahmet İSTANBULLUOĞLU

Dekan / Dean

Editörler Kurulu / Editorial Board

Başkan / Editor in Chief
Prof.Dr. Türkan AKTAŞ

Ziraat Fakültesi Biyosistem Mühendisliği Bölümü
Department Biosystem Engineering, Agricultural Faculty
taktas@nku.edu.tr

Üyeler / Members

Prof.Dr. M. İhsan SOYSAL	Zootekni / Animal Science
Prof.Dr. Temel GENÇTAN	Tarla Bitkileri / Field Crops
Prof.Dr. Sezen ARAT	Tarımsal Biyoteknoloji / Agricultural Biotechnology
Prof.Dr. Aydın ADİLOĞLU	Toprak Bilimi ve Bitki Besleme / Soil Science and Plant Nutrition
Prof.Dr. Fatih KONUKCU	Biyosistem Mühendisliği / Biosystem Engineering
Prof.Dr. Ömer AZABAĞAOĞLU	Tarım Ekonomisi / Agricultural Economics
Doç.Dr. Süreyya ALTINTAŞ	Bahçe Bitkileri / Horticulture
Doç.Dr. İlker H. ÇELEN	Biyosistem Mühendisliği / Biosystem Engineering
Doç.Dr. Ümit GEÇGEL	Gıda Mühendisliği / Food Engineering
Yrd.Doç.Dr. Harun HURMA	Tarım Ekonomisi / Agricultural Economics
Yrd.Doç.Dr. Özgür SAĞLAM	Bitki Koruma / Plant Protection
Araş.Gör. Eray ÖNLER	Biyosistem Mühendisliği / Biosystem Engineering

İndeksler / Indexing and abstracting



CABI tarafından full-text olarak indekslenmektedir/ Included in CABI



Provider of EBSCOhost®

EBSCO tarafından full-text olarak indekslenmektedir / Included in EBSCO



FAO AGRIS Veri Tabanında indekslenmektedir / Indexed by FAO AGRIS Database



INDEX COPERNICUS tarafından full-text olarak indekslenmektedir / Included in INDEX COPERNICUS



TUBİTAK-ULAKBİM Tarım, Veteriner ve Biyoloji Bilimleri Veri Tabanı (TVBBVT) Tarafından taramaktadır / Indexed by TUBİTAK-ULAKBİM Agriculture, Veterinary and Biological Sciences Database



ProQuest veritabanında indekslenmektedir / Indexed by ProQuest

Yazışma Adresi / Corresponding Address

Tekirdağ Ziraat Fakültesi Dergisi NKÜ Ziraat Fakültesi 59030 TEKİRDAĞ

E-mail: ziraatdergi@nku.edu.tr

Web adresi: <http://jotaf.nku.edu.tr>

Tel: +90 282 250 20 00

ISSN: 1302-7050

Danışmanlar Kurulu / Advisory Board

Bahçe Bitkileri / Horticulture

Prof. Dr. Ayşe GÜL	Ege Üniv., Ziraat Fak., İzmir
Prof. Dr. İsmail GÜVENÇ	Kilis 7 Aralık Üniv., Ziraat Fak., Kilis
Prof. Dr. Zeki KARA	Selçuk Üniv., Ziraat Fak., Konya
Prof. Dr. Jim HANCOCK	Michigan State University, USA
Prof. Dr. Levent ARIN	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Doç. Dr. Elman BAHAR	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Doç. Dr. Murat DEVEÇİ	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Doç. Dr. Süreyya ALTINTAŞ	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ

Bitki Koruma / Plant Protection

Prof. Dr. Cem ÖZKAN	Ankara Üniv., Ziraat Fak., Ankara
Prof. Dr. Yeşim AYSAN	Cukurova Üniv., Ziraat Fak., Adana
Prof. Dr. Ivanka LECHAVA	Agricultural University, Plovdiv-Bulgaria
Dr. Emil POCSAI	Plant Protection Soil Conser. Service, Velence-Hungary
Doç. Dr. Mustafa MİRİK	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Yrd. Doç. Dr. Özgür SAĞLAM	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ

Biyosistem Mühendisliği / Biosystem Engineering

Prof. Bryan M. JENKINS	U.C. Davis, USA
Prof. Hristo I. BELOEV	University of Ruse, Bulgaria
Prof. Dr. Simon BLACKMORE	The Royal Vet.&Agr. Univ. Denmark
Prof. Dr. Hamdi BİLGİN	Ege Üniv. Ziraat Fak., İzmir
Prof. Dr. Ali ihsan ACAR	Ankara Üniv. Ziraat Fak. Ankara
Prof. Dr. Ömer ANAPALI	Atatürk Üniv., Ziraat Fak. Erzurum
Prof. Dr. Christos BABAJIMOPOULOS	Aristotle Univ. Greece
Dr. Arie NADLER	Ministry Agr. ARO, Israel
Prof. Dr. Sezen ARAT	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Doç. Dr. Fulya ÖZDİL	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Yrd. Doç. Dr. B.Banu BİLGİN	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ

Gıda Mühendisliği / Food Engineering

Prof. Dr. Evgenia BEZIRTZOGLOU	Democritus University of Thrace/Greece
Assoc. Prof. Dr. Nermina SPAHO	University of Sarajevo/Bosnia and Herzegovina
Prof. Dr. Kadir HALKMAN	Ankara Üniv., Mühendislik Fak., Ankara
Prof. Dr. Atilla YETİŞEMİYEN	Ankara Üniv., Ziraat Fak., Ankara
Prof. Dr. Arıta YETİŞEMİYEN	Agricultural Biotechnology
Prof. Dr. İskender TİRYAKI	Çanakkale Üniv., Ziraat Fak., Çanakkale
Prof. Dr. Khalid Mahmood KHAWAR	Ankara Üniv., Ziraat Fak., Ankara
Prof. Dr. Mehmet KURAN	Ondokuz Mayıs Üniv., Ziraat Fak., Samsun
Doç. Dr. Tuğrul GİRAY	University of Puerto Rico, USA
Doç. Dr. Kemal KARABAĞ	Akdeniz Üniv., Ziraat Fak., Antalya
Doç. Dr. İsmail AKYOL	Kahramanmaraş Sütçü İmam Üniv., Ziraat Fak., Kahramanmaraş

Tarla Bitkileri / Field Crops

Prof. Dr. Esvet AÇIKGÖZ	Uludağ Üniv., Ziraat Fak., Bursa
Prof. Dr. Özer KOLSARICI	Ankara Üniv., Ziraat Fak., Adana
Dr. Nurettin TAHSİN	Agriculture University, Plovdiv-Bulgaria
Prof. Dr. Murat ÖZGEN	Ankara Üniv., Ziraat Fak., Ankara
Doç. Dr. Christina YANCHEVA	Agriculture University, Plovdiv-Bulgaria
Doç. Dr. İlker NİZAM	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Yrd. Doç. Dr. Seviye YAVER	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ

Tarım Ekonomisi / Agricultural Economics

Prof. Dr. Faruk EMEKSİZ	Cukurova Üniv., Ziraat Fak., Adana
Prof. Dr. Hasan VURAL	Uludağ Üniv., Ziraat Fak., Bursa
Prof. Dr. Gamze SANER	Ege Üniv., Ziraat Fak., İzmir
Prof. Dr. Alberto POMPO	El Colegio de la Frontera Norte, Meksika
Prof. Dr. Şule İŞİN	Ege Üniv., Ziraat Fak., İzmir

Toprak Bilimi ve Bitki Besleme Bölümü / Soil Sciences And Plant Nutrition

Prof. Dr. M. Rüştü KARAMAN	Yüksek İhtisas Üniv., Ankara
Prof. Dr. Metin TURAN	Yeditepe Üniv., Müh. ve Mimarlık Fak. İstanbul
Prof. Dr. Aydin GÜNEŞ	Ankara Üniv., Ziraat Fak., Ankara
Prof. Dr. Hayriye İBRİKÇİ	Cukurova Üniv., Ziraat Fak., Adana
Doç. Dr. Josef GORRES	The University of Vermont, USA
Doç. Dr. Pasquale STEDUTO	FAO Water Division Italy
Yrd. Doç. Dr. Orhan YÜKSEL	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Yrd. Doç. Dr. Hüseyin SARI	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ

Zootekni / Animal Science

Prof. Dr. Andreas GEORGIDUS	Aristotle Univ., Greece
Prof. Dr. Ignacy MISZTAL	Breeding and Genetics Universit of Georgia, USA
Prof. Dr. Kristaq KUME	Center for Agricultural Technology Transfer, Albania
Dr. Brian KINGHORN	The Ins. of Genetics and Bioinf. Univ. of New England, Australia
Prof. Dr. Ivan STANKOV	Trakia University, Depart. of Animal Science, Bulgaria
Prof. Dr. Muhibis KOCA	Atatürk Üniv., Ziraat Fak., Erzurum
Prof. Dr. Gürsel DELLAL	Ankara Üniv., Ziraat Fak., Ankara
Prof. Dr. Naci TÜZEMEN	Kastamonu Üniv., Mühendislik Mimarlık Fak., Kastamonu
Prof. Dr. Zlatko JANJEĆIĆ	University of Zagreb, Agriculture Faculty, Hrvatistan
Prof. Dr. Horia GROSU	Univ. of Agricultural Sciences and Vet. Medicine Bucharest, Romania
Prof. Dr. Muhittin ÖZDER	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ
Yrd. Doç. Dr. Levent COŞUNTUNA	Namık Kemal Üniv. Ziraat Fakültesi, Tekirdağ

Bu sayıda yayınlanan makaleler, aşağıda verilen Organizasyon Komitesi tarafından düzenlenmiş olan "2. Uluslararası Balkan Kongresi (16-18 Mayıs 2017-Tekirdağ-Türkiye)"nde sunulmuş olup, içeriğinden yazarları sorumludur.

(The papers in this issue were presented at the "2nd International Balkan Agriculture Congress (May 16-18, 2017, Tekirdag-Turkey)" organized by the following committee and the authors are solely responsible for content.)

Kongre Başkanları (Congress Chairmans)

NAME	FACULTY	UNIVERSITY	COUNTRY
Prof. Dr. Ahmet İSTANBULLUOĞLU	Dean of Faculty of Agriculture	Namık Kemal University	Turkey
Prof. Dr. Fadul ÖNEMLİ	Faculty of Agriculture	Namık Kemal University	Turkey

Kongre Sekreteri (Congress Secretary)

NAME	FACULTY	UNIVERSITY	COUNTRY
Yrd.Doç.dr. Seviye YAVER	Faculty of Agriculture	Namık Kemal University	Turkey

Organizasyon Komitesi (Organizing Committee)

NAME	FACULTY	UNIVERSITY -MINISTRY	COUNTRY
Prof. Dr. Alper DARDENİZ	Dean of Faculty of Agriculture	Çanakkale Onsekiz Mart University	Turkey
Prof.Dr. Bülent ŞENGÖRÜR	Dean of Faculty of Engineering	Kırklareli University	Turkey
Prof. Dr. Spyridon D. Koutroubas	Dean of School of Agricultural & Forestry Sciences	Democritus University of Thrace	Greece
Prof. Dr. İsmet BAŞER	Vice Dean of Faculty of Agriculture	Namık Kemal University	Turkey
Prof.Dr. Murat TAŞAN	Vice Dean of Faculty of Agriculture	Namık Kemal University	Turkey
Dr. Adnan TÜLEK	Director of Trakya Agricultural Research Institute	Ministry of Food, Agriculture and Live Stock	Turkey
Dr. Fatih BAKANOĞULLARI	Director of Atatürk Soil and Water Agricultural Meteorology Research Institute	Ministry of Food, Agriculture and Live Stock	Turkey
Dr. Cengiz ÖZER	Director of Tekirdağ Viticulture Research Institute	Ministry of Food, Agriculture and Live Stock	Turkey
Prof. Dr. Sezen ARAT	Faculty of Agriculture	Namık Kemal University	Turkey
Prof. Dr. Metin TUNA	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Yılmaz BAYHAN	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Fulya TAN	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Mustafa MİRİK	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Elman BAHAR	Faculty of Agriculture	Namık Kemal University	Turkey

Assoc. Prof. Dr. Murat DEVEÇİ	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. İlker NİZAM	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Mehmet ŞENER	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Süreyya ALTINTAŞ	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Fulya ÖZDİL	Faculty of Agriculture	Namık Kemal University	Turkey
Assoc. Prof. Dr. Nurettin TAHSİN	Faculty Of Agriculture	Agricultural University, Plovdiv	Bulgaria
Assist. Prof. Dr. Seviye YAVER	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof. Dr. Orhan YÜKSEL	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof. Dr. Levent COŞKUNTUNA	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof.Dr. Christos A. Damalas	Faculty of Agriculture	Democritus University of Thrace	Greece
Assist. Prof. Dr. Harun HURMA	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof. Dr. İbrahim PALABIYIK	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof. Dr. Erdinç BAL	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof. Dr. Özgür SAĞLAM	Faculty of Agriculture	Namık Kemal University	Turkey
Assist. Prof. Dr. Behiye BANU BİLGİN	Faculty of Agriculture	Namık Kemal University	Turkey
Dr. Sideris Fotiadis	Faculty of Agriculture	Democritus University of Thrace	Greece
Dr. Igor Iljovski	Faculty of Agriculture	Ss.Cyril and Methodius University in Skopje	Republic of Macedonia
Academician Fuat YILMAZ	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Elif CEREN PEHLİVAN	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Ersen OKUR	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Yasemin ERDOĞDU	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Hazım Serkan TENİKECİER	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Cansu ÖKSEL	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Yusuf SOLMAZ	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Demet APAYDIN	Faculty of Agriculture	Namık Kemal University	Turkey
Res. Assist. Firdevs KORKMAZ	Faculty of Agriculture	Namık Kemal University	Turkey

Assist.Prof.Dr. Hüseyin SARI	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Dr. Raziye IŞIK	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Dr. Derya İlkay ÇAKAL	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. Nihan ŞAHİN	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. Esra TAYAT	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. İrem ALTIN	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. Deniz Çağla TURAN	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. Ayşe ŞEN	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. Göksel TIRPANCI	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res.Assist. Çayan ALKAN	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey
Res. Assist. Emrullah ÇULPAN	Faculty of Agriculture	Namık Kemal University,Tekirdağ	Turkey

The Special Issue of 2nd International Balkan Agriculture Congress May 16-18, 2017

2. Uluslararası Balkan Tarım Kongresi Özel Sayısı, 16-18 Mayıs, 2017

İÇİNDEKİLER / CONTENTS

Lilyana KOLEVA, Milena YORDANOVA, Georgi DIMITROV	
Collembola Communities in Different Compost Types as Bioindicator of Substrate Quality.....	1
Vesna KRSTESKA, Stanislava LAZAREVSKA, Mile POSTOLOVSKI	
The Species of Superfamily <i>Chalcidoidea</i> – Parasites of Aphidophagous Hoverflies	7
Özgür SAĞLAM, Ali Arda IŞIKBER, Hasan TUNAZ, M. Kubilay ER, Fatih BAHADIR, Recep ŞEN	
Preliminary Check Some Turkish Diatomaceous Earth Similarities with Commercial Diatomaceous Earths under Scanning Electron Microscope (SEM).....	13
Grozi DELCHEV	
Impact of Some Mixtures between Foliar Fertilizers and Combined Herbicides on the Sowing Properties of the Durum Wheat Sowing-Seeds	20
Hamza NEĞİŞ, İlknur GÜMÜŞ, Cevdet ŞEKER	
Effects of Four Different Crops Harvest Processes on Soils Compaction	25
Elif Ceren PEHLİVAN, Birhan KUNTER, Shedia DANESHVAR ROYANDAZAGH	
Choise of Explant Material and Media for <i>in vitro</i> Callus Regeneration in Sultana Grape Cultivar (<i>Vitis vinifera</i> L.) ...	30
Raziye IŞIK, Güldehen BİLGİN, Nedim KOŞUM, Çağrı KANDEMİR, Turgay TAŞKIN	
Polymorphism in Exon 7 of β -Lactoglobulin (β -LG) Gene and Its Association with Milk Yield in Saanen Goats.....	35
Golgen Bahar OZTEKİN, Yuksel TUZEL	
Effects of Grafting on Organic Seedling Quality and Tomato Production in Greenhouse.....	41
Murat DEVECİ, Evren CABİ, Levent ARİN, Ozcan YAVAS	
The Effect of Water Deficit on some Physiological Properties of <i>Abelmoschus esculentus</i> (L.) Moench cv. "Sultani".	48
Sureyya ALTINTAŞ, Servet VARIS, Ömer KESKİN, İbrahim KURU	
Effects of Seedling Age, and Different Levels of N, K and K/N on Quality and Yield of Tomato Grown in Perlite Bag Culture	55
Elman BAHAR, Alain CARBONNEAU, İlknur KORKUTAL	
Vine and Berry Responses to Severe Water Stress in Different Stages in cv. Syrah (<i>Vitis vinifera</i> L.)	62
Onur HOCAOĞLU, Mevlüt AKÇURA	
Evaluating Mineral Contents of Selected Bread Wheat Landrace Pure Lines Derived from West Anatolia and Marmara Regions and Cultivars by GGE Biplot	71
İrfan ÖZTÜRK, Kayihan Z. KORKUT	
Stability Parameters for Yield and Yield Component of the Bread Wheat Genotypes under Various Drought Stress Condition.....	77
Hristo STOYANOV, Valentin BAYCHEV, Gallina MIHOVA	
Analysis and Assessment of Yield Ranking Models in Triticale (<i>xTriticosecale</i> Wittm.) in Contrasting Environmental Conditions	83
Ahmet GÖKKUŞ, Fırat ALATÜRK, Baboo ALI, Volkan ÇOBAN	
Seasonal Variation of the Nutrient Contents of <i>Sarcopoterium spinosum</i> (L.) Spach	91
Emrah GÜNGÖR, Aydin ALTOP, Ergin ÖZTÜRK, Güray ERENER	
Nutritional Changes of Sour Cherry (<i>Prunus cerasus</i>) Kernel Subjected to <i>Aspergillus niger</i> Solid-state Fermentation	99
Nadezhda PALOVA, Dimitrinka KRUSHEVA, Radka NEDEVA, Yordan MARCHEV	
Influence of Pasture Composition and Weather Conditionson The Productivity and Behavioral Reactions of Pigs of East Balkan Breed.....	104

