
ISSN: 2618 - 6578

Phone: +90 362 408 25 15

Fax: +90 362 408 25 15

Email: bsjagri@blackseapublishers.com

Web site: http://dergipark.gov.tr/bsagriculture

Sort of Publication: Periodically 4 times in a year

Publication Date and Place: January 01, 2019 - Samsun, TURKEY

Publishing Kind: Electronically

BSJ Agri is a double-blind peer-reviewed, open-access international journal, publishing papers from various countries.

OWNER

Prof. Dr. Hasan ÖNDER

DIRECTOR IN CHARGE

Assoc. Prof. Uğur ŞEN
EDITOR BOARDS

EDITOR IN CHIEF

Prof. Dr. Hasan ÖNDER
Ondokuz Mayıs University, TURKEY

Assoc. Prof. Uğur ŞEN
Ondokuz Mayıs University, TURKEY

SECTION EDITORS

Mehmet KURAN
Ondokuz Mayıs University, TURKEY

Mikó JÓZSEFNÉ JÓNÁS
University of Szeged, HUNGARY

Ahmet GÜLER
Ondokuz Mayıs University, TURKEY

Aglaiia (Litsa) LIOPA-TSAKALIDIS
Technological Education Institute of Western Greece, GREECE

Kemal Çağatay SELVİ
Ondokuz Mayıs University, TURKEY

Farhood GOLMOHAMMADI
Islamic Azad University, IRAN

Muhammad KHALID
University of London, UNITED KINGDOM

Güray ERENER
Ondokuz Mayıs University, TURKEY

Alireza TERINEJAD
Azarbajian Shahid Madani University, IRAN

Ali Vaiz GARIPÇĞLU
Ondokuz Mayıs University, TURKEY

Umut Sami YAMAK
Ondokuz Mayıs University, TURKEY

Gheorghe VOICU
Politehnica University of Bucharest, ROMANIA

Mustafa BOŞA
Nigde Ömer Halisdemir University, TURKEY

Valentin VLADUT
National Research and Development Institute, ROMANIA

Mustafa ŞAHİN
Kahramanmaraş Sütçü İmam University, TURKEY

Sorin-Ştefan BIRIŞ
Politehnica University of Bucharest, ROMANIA

Hüseyin ERDEM
Ondokuz Mayıs University, TURKEY

Sherein Saeid ABDELGAYED
Cairo University, EGYPT

Sinan ÖĞÜR
Redrock Agricultural Pastoral, TURKEY

Levent SANGÜN
Çukurova University, TURKEY

Ercan EFE
Kahramanmaraş Sütçü İmam University, TURKEY

Adnan ÚNALAN
Ömer Halisdemir University, TURKEY

Orhan DENGİZ
Ondokuz Mayıs University, TURKEY

Ferat UZUN
Ondokuz Mayıs University, TURKEY

Jiban SHRESTHA
Nepal Agricultural Research Council, NEPAL

Ahmet BALKAYA
Ondokuz Mayıs University, TURKEY

İsmet BOZ
Ondokuz Mayıs University, TURKEY

Muhtarrem ÖZCAN
Ondokuz Mayıs University, TURKEY

Hasan Murat AKSOY
Ondokuz Mayıs University, TURKEY

İknur AYAN
Ondokuz Mayıs University, TURKEY

Kürşat KORKMAZ
Ordu University, TURKEY

Levent MERCAN
Ondokuz Mayıs University, TURKEY

Hakan ARSLAN
Ondokuz Mayıs University, TURKEY

Kadir Ersin TEMİZEL
Ondokuz Mayıs University, TURKEY

Şerife Evrim ARICI
Süleyman Demirel University, TURKEY
Ünal KILIÇ
Aysun PEKŞEN
Yusuf Ziya GÜZEY
Emre ŞİRİN
Savaş ATASEVER
Tugay AYAŞAN
İsmail ERPER

Ondokuz Mayıs University, TURKEY
Ondokuz Mayıs University, TURKEY
Mustafa Kemal University, TURKEY
Ahi Evran University, TURKEY
Ondokuz Mayıs University, TURKEY
East Mediterranean Agricultural Research Institute, TURKEY
Ondokuz Mayıs University, TURKEY
# Table of Contents

## Research Article

1. **DETERMINATION OF ANTI METHANOGENIC CHARACTERISTICS OF SOME TREE LEAVES USING IN VITRO GAS PRODUCTION TECHNIQUE**  
   Nurullah ŞİMŞEK, Adem KAMALAK  
   1-5

2. **COMPARISON OF SOME RANDOM REGRESSION MODELS FOR RACING PERFORMANCES OF BRITISH RACING HORSES IN TURKEY**  
   Samet Hasan ABACI, Ümit COŞKUN, Hasan ÖNDER  
   6-9

3. **ASSESSMENT OF GENETIC VARIABILITY AND HERITABILITY OF AGRONOMIC TRAITS IN ETHIOPIAN CHICKPEA (CICER ARIETINUM L) LANDRACES**  
   Awol MOHAMMED, Bulti TESSO, Chris OJIEWO, Seid AHMED  
   10-15

4. **DEVELOPMENT OF AKKARAMAN LAMBS IN CANKIRI REGION FROM BIRTH TO 120 DAYS**  
   Çağrı Meliksah SAKAR, Abdulkadir ERISEK  
   16-20

5. **PERFORMANCE OF OWNER-MANAGED AND EMPLOYEE-MANAGED SMALL-SCALE POULTRY FARMS IN NIGERIA**  
   Felix Odemero ACHOJA, Okwanuzor Esther ANANENU  
   21-26

6. **ASSESSMENT OF IRRIGATION SCHEMES OF SARAYKÖY, ÇAMGAZI AND BOĞAÇAY WITH STATISTICAL METHODS**  
   Sinan KARTAL, Fırat ARSLAN, Hasan DEĞİRMENCİ  
   27-34

7. **IMPLEMENTATION OF GROWTH CURVES AND INTERPOLATION METHODS FOR FATTENING CONTINUATION DECISION**  
   Ebru ERGÜNĘŞ BERKİN, Hasan ÖNDER, Özgür Hakan AYDOĞMUŞ  
   35-39

8. **INFORMATION LEVELS, ATTITUDES AND CONSUMPTION BEHAVIOR OF STUDENTS ABOUT TO ORGANIC AND GENETICALLY MODIFIED ORGANIZED PRODUCTS: EXAMPLE OF ONDOKUZ MAYIS UNIVERSITY**  
   Engin GÜNGÖR, Kürşat DEMİRYÜREK  
   40-46

9. **THE EFFECT OF MATERNAL AGE ON SOME BODY MEASUREMENTS IN ANATOLIAN BLACK CALVES**  
   İlker UNAL, H. İlknur TUNCER, C. Meliksah SAKAR, Engin UNAY  
   47-50
10. MAPPING OF SOME MAIZE GROWING AREAS OF DISTRICT SWABI ON THE BASIS OF PHOSPHOROUS MINERALIZATION
Aftab JAMAL, Muhammad Ilyas DURRANI, Muhammad Sarirullah SARIR ..................................51-57

Review Article

11. WATER HYACINTH: UTILIZATION AND IMPACT ON BIODIVERSITY
Muhammad FAWAD, Aftab JAMAL..................................................................................................58-62

12. HONEY BEE BREEDING FOR VARROA RESISTANCE
Dilşan BOYLU, Hasan ÖNDER......................................................................................................63-65