

# Uluslararası Tarım Araştırmalarında Yenilikçi Yaklaşımlar Dergisi

**International Journal of Innovative  
Approaches in Agricultural Research**

e-ISSN: 2602 - 4772

**Volume 3 Issue 3, September 2019**

DOL: <https://doi.org/10.29329/ijjaar.2019.206>

# IJIAAR

## Uluslararası Tarım Araştırmalarında Yenilikçi Yaklaşımlar Dergisi

## International Journal of Innovative Approaches in Agricultural Research

e-ISSN: 2602-4772

### Dergi Hakkında;

Uluslararası Tarım Araştırmalarında Yenilikçi Yaklaşımlar Dergisi (IJIAAR) ziraat bilimleri alanında bilimsel kurallara uygun araştırmaları yayınlayan açık erişimli ve uluslararası hakemli bir dergidir. IJIAAR güncel tarım araştırmaları üzerine yenilikçi bakış açısı getiren çalışmalara öncelik vermeyi amaçlamaktadır. Bilimsel bir dille yazılmış empirik, teorik ve kavramsal makaleleri dikkate almaktadır. Dergi İngilizce makaleleri kabul etmektedir. Mart, Haziran, Eylül ve Aralık aylarında olmak üzere yılda 4 sayı olarak yayınlanmaktadır.

Uluslararası Tarım Araştırmalarında Yenilikçi Yaklaşımlar Dergisi'nde yayınlanan tüm makalelerin bilimsel etik ve hukuki sorumluluğu yazarlara, yayın hakları ise Uluslararası Tarım Araştırmalarında Yenilikçi Yaklaşımlar Dergisi'ne aittir. Yayıncının izni olmadan hiç bir çalışmanın bir kısmı veya tamamı başka mecralarda yayınlanamaz.

### About Journal;

The International Journal of Innovative Approaches in Agricultural Research (IJIAAR) is a peer reviewed journal that publishes research on scientific principles in the field of agricultural research. IJIAAR aims to give priority to studies that bring an innovative perspective on current agricultural problems. Empirical, theoretical and conceptual articles of significant originality will be considered. The journal is publishes articles in English. IJIAAR is published as four times a year in March, June, September and December.

Scientific ethical and legal responsibility of all the manuscript published in the journal belongs to the authors and publishing rights belong to the journal. Without permission from the publisher, some or all of any work can not be published in other journals.



# IJIAAR

**Uluslararası Tarım Araştırmalarında Yenilikçi Yaklaşımlar Dergisi**

**International Journal of Innovative Approaches in Agricultural Research**

Volume 3 Issue 3, September 2019

[ijiaar.penpublishing.net](http://ijiaar.penpublishing.net)

<https://doi.org/10.29329/ijiaar.2019.206>

#### **Owner & Publisher**

Pen Academic Publishing™

THDSoft Tayfun Taşbilek

Çanakkale Teknopark Yerleşkesi No:276/J2, Sarıcaeli / Çanakkale / Turkey

[www.penpublishing.net](http://www.penpublishing.net) | [info@penpublishing.net](mailto:info@penpublishing.net)

## **Editor**

Prof. Dr. Yalçın KAYA  
*Trakya University, Turkey*

## **Associate Editor**

Prof. Dr. Teodora POPOVA  
*Institute of Animal Science- Kostinbrod, Bulgaria*

## **Editorial Review Board**

|  |   |
|--|---|
| Prof. Dr. Ioannis TOKATLIDIS<br><i>Trakia Democritus University, Greece</i>              | Prof. Dr. Rishi K BEHL<br><i>CCS Haryana Agricultural University, India</i>             |
| Prof. Dr. Mulpuri SUJATHA<br><i>ICAR-Indian Institute of Oilseeds Research, India</i>    | Prof. Dr. Saeed RAUF<br><i>Muhammad Nawaz Sharif Agriculture University, Pakistan</i>   |
| Prof. Dr. Nurhan TURGUT DUNFORD<br><i>Oklahoma State University, United States</i>       | Prof. Dr. Irina MITROFANOVA<br><i>Nikita Botanical Gardens, Russia</i>                  |
| Prof. Dr. Dejana PANKOVIC<br><i>Educon University, Serbia</i>                            | Prof. Dr. Hulya ILBI<br><i>Ege University, Turkey</i>                                   |
| Prof. Dr. Bulent UZUN<br><i>Akdeniz University, Turkey</i>                               | Prof. Dr. Nedim MUTLU<br><i>Akdeniz University, Turkey</i>                              |
| Prof. Dr. Ahmet ULUDAG<br><i>Çanakkale Onsekiz Mart University, Turkey</i>               | Prof. Dr. Kamil HALILOGLU<br><i>Erzurum University, Turkey</i>                          |
| Prof. Dr. Ahu ALTINKUT UNCUOGLU<br><i>Marmara University, Turkey</i>                     | Prof. Dr. Metin TUNA<br><i>Namık Kemal University, Turkey</i>                           |
| Prof. Dr. Sezen ARAT<br><i>Namık Kemal University, Turkey</i>                            | Prof. Dr. Mehmet Emin CALISKAN<br><i>Omer Halisdemir University, Turkey</i>             |
| Assoc. Prof. Dr. Nooduan MUANGSAN<br><i>Suranaree University of Technology, Thailand</i> | Assoc. Prof. Dr. Ina ZIVATKAUSKIENE<br><i>University of Applied Sciences, Lithuania</i> |
| Assoc. Prof. Dr. Semra HASANCEBI<br><i>Trakya University, Turkey</i>                     | Assit. Prof. Dr. Necmi BESER<br><i>Trakya University, Turkey</i>                        |

## **Assistant Editor**

Ulaş Yabanova  
*Kütahya Dumlupınar University, Turkey*



## **Indexing/Abstracting**

1. Bielefeld Academic Search Engine BASE - <https://www.base-search.net>
2. Index Copernicus World List - <https://journals.indexcopernicus.com>
3. Scilit - <https://www.scilit.net>
4. Google Scholar - <https://scholar.google.com.tr>
5. ROAD Directory of Open Access Scholarly Resources - <https://portal.issn.org>
6. Crossref - <https://search.crossref.org>
7. Directory of Research Journals Indexing - <http://olddrji.lbp.world>
8. Cite Factor - <http://www.citefactor.org>
9. Scientific Indexing Services (SIS) - <http://www.sindexs.org>
10. Journal Factor - <http://www.journalfactor.org>
11. Eurasian Scientific Journal Index - <http://esjindex.org>

## Table of Contents

---

|                    |   |
|--------------------|---|
| Page<br><b>353</b> | Original article<br><b>Evaluation of the Detoxification Potential of Micrococcus Strains and Plants for Bioremediate Organochlorine Herbicides</b><br>Gökhan Önder Ergüven & Göksel Demir   |
| Page<br><b>365</b> | Original article<br><b>Biochemical Composition of Root Mass of Healthy and Damaged by the Larva of Plagionotus floralis Pall. (Coleoptera: Cerambycidae) Alfalfa (<i>Medicago sativa L.</i>) Plants</b><br>Evgeniya Zhekova   |
| Page<br><b>376</b> | Original article<br><b>Production of <i>Trichoderma harzianum</i> (127a and 127b) spores by Fermentation (LF and SSF)</b><br>Almi Hiba, Dehimat Laid, Zaki Omrane, Sabri Ahmed & Thonart Philippe   |
| Page<br><b>385</b> | Original article<br><b>Paddy Rice Yield, Milling Fractions and white Rice Yield of Efe, Hamzadere, Çakmak and Tunca Rice Varieties in the Rice producing Conditions of North Macedonia</b><br>Dobre Andov, Danica Andreevska, Trajche Dimitrovski, Emilija Simeonovska, Halil Sürek, Necmi Beşer & Jashka Ibraimi |
| Page<br><b>392</b> | Original article<br><b>Morphological and productive Properties of Efe, Hamzadere, Çakmak and Tunca Rice Varieties in the Rice producing Conditions of North Macedonia</b><br>Danica Andreevska, Dobre Andov, Trajche Dimitrovski, Emilija Simeonovska, Halil Sürek, Necmi Beşer & Jashka Ibraimi                  |
| Page<br><b>402</b> | Original article<br><b>Genetic Distance of New Bulgarian Durum Wheat Varieties and Breeding Lines of FCI-Chirpan, Bulgaria</b><br>Rangel Dragov, Dechko Dechev & Krasimira Taneva   |
| Page<br><b>411</b> | Original article<br><b>Soil Microorganisms Quantitative Dynamic Characterizing the Overall Biological State in Rhizosphere of Tobacco and Tomato Plants Infected by Broomrape</b><br>Tsveta Hristeva, Iliya Denev & Radka Bojinova  |

|                    |  |
|--------------------|--|
| Page<br><b>420</b> | Original article<br><b>New Common Winter Wheat Lines with Resistance to Leaf Rust (P. <i>triticina</i>)</b><br>Vanya Ivanova, Galina Mihova & Bilyana Ivanona  |
| Page<br><b>429</b> | Original article<br><b>Incorporation of Sprouted Wheat Seeds as Functional Ingredient in a Mediterranean Breakfast Cereal Based Product, Bsissa: A Mixture Design Approach</b><br>Sarra Jribi, Khaled Sassi & Hajar Debbabi                          |
| Page<br><b>442</b> | Original article<br><b>Occurrence and Relative Prevalence of Fungal Pathogens on Durum Wheat</b><br>Spasimira Nedyalkova, Zornitsa Stoyanova, Veska Georgieva & Rossitza Rodeva  |
| Page<br><b>455</b> | Original article<br><b>Application of the Herbicides Wing P and Stratos Ultra for Weed Control in Newly-Planted Vineyard</b><br>Neli Prodanova-Marinova  |
| Page<br><b>466</b> | Original article<br><b>Study on the Effect of Presowing Electromagnetic Treatment on the Number and Lengths of Roots and Lengths of Sprouts of Triticale Seeds the Cultivar Colorit</b><br>Kiril Sirakov, Ana Stoilova, Ivan Palov & Angelina Muhova |
| Page<br><b>480</b> | Original article<br><b>Assessment of Diversity and Association between Agronomic and Quality Traits in an Assortiment of Durum Wheat Genotypes</b><br>Krasimira Taneva, Violeta Bozhanova & Rangel Dragov  |
| Page<br><b>491</b> | Original article<br><b>Forage Yield and Quality Attributes of Berseem Clover Genotypes under Mediterranean Climate</b><br>Celal Yücel  |
| Page<br><b>504</b> | Original article<br><b>Analaysis of Impotent Indices in New Bulgarien Hybrids Linzi and Deveda</b><br>Nina Nenova, Daniela Valkova & Emil Penchev  |

|                    |  |
|--------------------|--|
| Page<br><b>510</b> | Review article<br><b>Biochemical, Molecular and Morpho-Physiological Attributes of Wheat to Upgrade Grain Production and Compete with Water Stress</b><br>Saira Sattar, Rabail Afzal, Ikram Bashir, Bilal Nawaz & Aiman Shahid |
| Page<br><b>529</b> | Review article<br><b>Possibilities for the Use of Black Soldier Fly (<i>Hermetia illucens</i>) in Poultry Breeding as a Feed and Waste Utilization</b><br>Evgeni Petkov  |
| Page<br><b>543</b> | Review article<br><b>Hypothetical Radiological Findings in Dogs and Cats Suffering from Insomnia</b><br>Emilian Shabani & Avni Robaj   |