

# Uluslararası Tarım Arařtırmalarında Yenilikçi Yaklařımlar Dergisi

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

e-ISSN: 2602 - 4772

**Volume 3 Issue 2, June 2019**

DOI: <https://doi.org/10.29329/ijjaar.2019.194>

# IJIAAR

## Uluslararası Tarım Arařtırmalarında Yenilikçi Yaklařımlar Dergisi

### International Journal of Innovative Approaches in Agricultural Research

e-ISSN: 2602-4772

#### **Dergi Hakkında;**

Uluslararası Tarım Arařtırmalarında Yenilikçi Yaklařımlar Dergisi (IJIAAR) ziraat bilimleri alanında bilimsel kurallara uygun arařtırmaları yayınlayan aık eriřimli ve uluslararası hakemli bir dergidir. IJIAAR gncel tarım arařtırmaları zerine yeniliki bakıř aısı getiren alıřmalara ncelik vermeyi amalamaktadır. Bilimsel bir dille yazılmıř ampirik, teorik ve kavramsal makaleleri dikkate almaktadır. Dergi İngilizce makaleleri kabul etmektedir. Mart, Haziran, Eyll ve Aralık aylarında olmak zere yılda 4 sayı olarak yayınlanmaktadır.

Uluslararası Tarım Arařtırmalarında Yeniliki Yaklařımlar Dergisi'nde yayınlanan tm makalelerin bilimsel etik ve hukuki sorumluluęu yazarlara, yayın hakları ise Uluslararası Tarım Arařtırmalarında Yeniliki Yaklařımlar Dergisi'ne aittir. Yayıncının izni olmadan hi bir alıřmanın bir kısmı veya tamamı bařka 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 Without permission from the publisher, some or all of any work can not be published in other journals.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 Arařtırmalarında Yenilikçi Yaklařımlar Dergisi**  
International Journal of Innovative Approaches in Agricultural Research

Volume 3 Issue 2, June 2019

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

<https://doi.org/10.29329/ijjaar.2019.194>

**Owner & Publisher**

Pen Academic Publishing™

THDSOft Tayfun Tařbilek

Çanakkale Teknopark Yerleřkesi 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,<br/>India</i> | Prof. Dr. Saeed RAUF<br><i>Muhammad Nawaz Sharief Agriculture<br/>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 <b>162</b>	Original article <b>Hybridization Between Cultivated Sunflower and Wild Species <i>Helianthus bolanderi</i> A. Gray</b> Daniela Valkova, Nina Nenova, Emil Penchev & Valentina Encheva
Page <b>169</b>	Original article <b>Investigation on the Adaptability of A Group of Topical Common Winter Wheat Cultivars</b> Emil Penchev, Sonya Doneva & Rumiana Alexandrova
Page <b>177</b>	Original article <b>Antimicrobial Effects of TiO<sub>2</sub> Nanoparticles against Drug-Resistant Bacteria and <i>Candida Albicans</i></b> Houneida Benbouzid, Zahra Obeizi & Abd El Ghani Djahoudi
Page <b>183</b>	Original article <b>Evaluation of New Cotton Lines in View of Selection</b> Valentina Dimitrova, Minka Koleva & Ana Stoilova
Page <b>193</b>	Original article <b>Qualitative Assessment of Reaction Norm of New Cotton Lines (<i>G. hirsutum</i> L.)</b> Minka Koleva, Valentina Dimitrova & Ana Stoilova
Page <b>202</b>	Original article <b>Promising Use of Alpha-Spinr Nano Particles Bombardment for Selection of Useful Variations in <i>Moringa Oleifera</i> Seedlings in Nigeria</b> Emmanuel Kwon-Ndung, Cynthia Joseph, Enock Goler, Hauwa Kana & Paul Terna
Page <b>210</b>	Original article <b>Managing the Menace of Late Blight Disease of Potato Using Field Resistance in Jos Plateau, Nigeria</b> Wazih Chingle & Emmanuel Kwon-Ndung
Page <b>217</b>	Original article <b>Optimization of Low-fat Butter Using Response Surface Methodology: Effect on Physicochemical Properties and Consumers' Acceptance</b> Dorra Salhi, Sarra Jribi, Sonia Boudiche, Souraya Kaabia & Hajer Debbabi

---

---

Page  
**229**

Original article  
**Occurrence and Biological Control of Cucumber Damping Off Disease under Protected Cultivation in Sulaimani , Iraq**  
Emad M. Al-Maarooof & Nermin M. Saber

Page  
**247**

Original article  
**Effect of Water Harvesting Techniques on Soil Properties in the South Omdurman Area - Sudan**  
Shaker Babeker Ahmed, Amir Bakheit Saeed & Mohamed Abd Alla Mohamed Ali

Page  
**257**

Original article  
**Anatomical Study of Garden Nasturtium (Tropaeolum Majus L.) Growing under the Climatic Conditions of Annaba (Eastern Algeria)**  
Leila Ailane, Salima Bennadja, Karima Ounaissia, Samira Ati & Ghozlène Aouadi

Page  
**267**

Original article  
**Effect of the Essential Oil of Mentha Piperita and Thymus Numidicus on the Growth of Fusarium Sp**  
Behidj-Benyounes Nassima, Dahmene Thoraya, Behidj Khedidja Kenza, Daoudi Rosa, Rahmoune Esma & A. Koulache

Page  
**277**

Original article  
**Effects of Starter Culture Combination on the Characteristic of White Cheese**  
Ufuk Eren Vapur, , Lütfiye Yılmaz Ersan & Tülay Özcan

Page  
**287**

Original article  
**Host Specificity of Sudan Witchweed (Striga Hermonthica [Del.] Benth.) Seed Germination and Haustorium Initiation in Response to Sorghum Root Exudates and Extracts**  
Awadallah B. Dafaallah, Abd Elgabar T. Babiker & Abbasher Awad Abbasher

Page  
**299**

Original article  
**Salt Effect on Biochemical Behavior Fodder Halophytes**  
Mahi Zineb, Maurousset Laurence, Belkhodja Moulay & Lemoine Rémi

Page  
**315**

Original article  
**New “Acidic Acetatic Index” (AAI) Based on the Interrelationship “Volatile acids – Ethyl Acetate” for Determination of the Level of Wine Acidification**  
Dimitar Robertov Dimitrov

Page  
**321**

Original article  
**Allelopathic Effects of Jimsonweed (*Datura Stramonium* L.) Seed on Seed Germination and Seedling Growth of Some Leguminous Crops**  
Awadallah B. Dafaallah, Waleed N. Mustafa & Yasir H. Hussein

Page  
**332**

Original article  
**Study of Some Biocontrol Bacterial Isolates and Evaluation of Their Antifungal and Insecticidal Effects**  
Hakima Oulebsir-Mohandkaci, Farida Tihar-Benzina & Arezki Mohammedi

Page  
**343**

Review article  
**Direct Marketing of Fresh Mangoes: A Case Study of Mango Smallholders in Pakistan**  
Sohail Ayyaz & Nazim Hussain

---