

Res. Asst. PhD HANDE OTU

Personal Information

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International Researcher IDs

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Education Information

Undergraduate, Cukurova University, Ziraat Fakültesi, Bitki Koruma, Turkey 2018 - 2023

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, Turkey 2014 - 2022

Associate Degree, Anadolu University, Open Education Faculty, Tarım, Turkey 2016 - 2018

Postgraduate, Cukurova University, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü, Biyoloji Bölümü-Botanik, Turkey 2012 - 2014

Undergraduate, Hacettepe University, Fen Fakültesi, Biyoloji Bölümü, Turkey 2006 - 2011

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, Fen ve Mühendislik Alanlarına Yönelik TÜBİTAK-2218 Yurt İçi Doktora Sonrası Araştırma Projesi Yazma Eğitimi, Tarsus Üniversitesi, 2024

Education Management and Planning, Pedagojik Formasyon Eğitimi, Çukurova Üniversitesi Eğitim Fakültesi, 2019

Other, Biyoloji ve Ekoloji Alanlarında Proje Hazırlama ve Uyg.Eğitimi, Afyon Kocatepe Üniversitesi, 2016

Other, Bitkilerde Uyg. Moleküler Markır, Gen Ekspresyonu ve Yeni Nesil Dizileme Tekn. Eğt., Çukurova Üniversitesi Biyoteknoloji Araştırma ve Uygulama Merkezi, 2016

Other, IASTE PRACTICAL PROGRAM, INSTITUTE OF MOLECULAR PLANT NUTRITION/UNIVERSITY OF HOHENHEIM, 2015

Dissertations

Doctorate, Farklı makarnalık buğday genotiplerinde (*Triticum turgidum* ssp durum cvs.) tuz uygulamalarının fizyolojik parametrelerle araştırılması, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji, 2022

Postgraduate, EKMEKLİK (*Triticum aestivum* cv. Özkan) VE MAKARNALIK (*Triticum durum* cv. Diyarbakır 81) BUĞDAY ÇEŞİTLERİNDE KADMIYUM STRESİNİN VE PACLOBUTRAZOL İLE İLİŞKİSİNİN ARAŞTIRILMASI, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji Bölümü, 2014

Research Areas

Academic Titles / Tasks

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, Biyoloji Bölümü, 2012 - Continues

Courses

Undergraduate

Medicinal and Aromatic Plants, Undergraduate, 2023 - 2024

Plant Physiology 2, Undergraduate, 2023 - 2024

Botany, Undergraduate, 2023 - 2024

Plant Physiology 1, Undergraduate, 2023 - 2024

Botany, Undergraduate, 2023 - 2024

Botany, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **EFFECTS OF WEED CONTROL ON SEED YIELD AND FATTY OIL RATIO OF BLACK CUMIN (*Nigella sativa* L.)**
KIRICI S., ÇALIŞKAN T., Hatipoglu R., Celiktas V., Otu Borlu H.
TURKISH JOURNAL OF FIELD CROPS, vol.26, no.2, pp.226-234, 2021 (SCI-Expanded)
- II. **Traffic-Induced Air Pollution Effects on Physio-Biochemical Activities of the Plant *Eucalyptus camuldensis***
Çeliktaş V., OTU H., DÜZENLİ S., Alharby H., Bamagoos A., Islam M. S., Hossain A., El sabagh A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, pp.9373-9378, 2019 (SCI-Expanded)
- III. **GROWTH, PHYSIOLOGY, AND BIOCHEMICAL ACTIVITIES OF WHEAT (*TRITICUM AESTIVUM* L.) SEEDLINGS IS AFFECTED BY LEAD STRESS**
Borlu H., ÇELİKTAŞ V., DÜZENLİ S., Avci M., Hussain A., El Sabagh A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.7, pp.5122-5130, 2019 (SCI-Expanded)
- IV. **GERMINATION AND EARLY SEEDLING GROWTH OF FIVE DURUM WHEAT CULTIVARS (*TRITICUM DURUM* DESF.) IS AFFECTED BY DIFFERENT LEVELS OF SALINITY**
Borlu H., ÇELİKTAŞ V., DÜZENLİ S., Hossain A., El Sabagh A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.11, pp.7746-7757, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **Germination Potential of Safflower (*Carthamus tinctorius* L.) Against Nickel Heavy Metal.**
ÇELİKTAŞ V., OTU BORLU H.
ISPEC Journal of Agricultural Sciences, 2023 (Peer-Reviewed Journal)
- II. **RESPONSE OF TOMATO (*Lycopersicon esculentum* Mill.) SEEDLINGS TO CADMIUM STRESS WITH PHYSIOLOGICAL AND OXIDATIVE PARAMETERS**
HAKLI HEYBET E., OTU H., DÜZENLİ S.
JOURNAL OF APPLIED BIOLOGICAL SCIENCES, pp.1-14, 2020 (Peer-Reviewed Journal)
- III. **Ekmeklik (*Triticum Aestivum* Cv. Özkan) Ve Makarnalık (*Triticum Durum* Cv. Diyarbakır 81) Buğday Çeşitlerinde Kadmiyum Stresinin Ve Paclobutrazol İle İlişkisinin Büyüme, Pigment İçeriği Ve Kadmiyum Birikimi Üzerine Etkileri**
OTU H., DÜZENLİ S.

Books

I. ARE MEDICINAL AND AROMATIC PLANTS USEFUL FOR PLANT PROTECTION?

Otu H., Çelikleş V.

in: AGRICULTURAL SCIENCES AND MANAGEMENT, Assist. Prof. Dr. Zeynep DUMANOĞLU, Editor, Iksad Publications, Ankara, pp.121-140, 2023

Papers Published in Refereed Scientific Meetings

I. The Response Of Garden Cress (*Lepidium sativum* L.) Plants To Cadmium On Germination And Vegetative Stages

Otu H., Çelikleş V., Aslan A., Bahçivan Ö.

ISPEC 16th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Girne, Cyprus (Kktc), 1 - 02 June 2024, pp.8

II. THE EFFECTS OF THE CEMENT FACTORY DUSTS ON OLIVE TREES' SOME PHYSIOLOGICAL PARAMETERS

ÇAKAN H., OTU BORLU H., KEÇELİ MUTLU T.

SIVAS II. INTERNATIONAL CONFERENCE ON SCIENTIFIC AND INNOVATION RESEARCH, Sivas, Turkey, 15 - 17 September 2023

III. Farklı Nikel Tuz ve Konsantrasyonlarının Ayçiçeği (*Helianthus Annuus* cv. cv. Eklor) Fidelerinin Çimlenme Aşamasındaki Etkileri

OTU BORLU H., ÇELİKTAŞ V., ÇAKAN H.

The 15th International Scientific Research Congress - Science and Engineering -, 18 December 2022, pp.196-200

IV. The Effect of Indole Acetic Acid on Some Growth Parameters of Bread Wheat (*Triticum aestivum* L. cv. Sagittario) Under Salinity Stress

KILIÇ A., OTU BORLU H., ÇAKAN H.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), 24 - 26 October 2018

V. The Effects of Irrigation-related Drought Stress on Some Eggplant Cultivars

OTU BORLU H., ÇELİKTAŞ V., DÜZENLİ S.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.1311

VI. Allelopathic Effects of Two Weed Species on Soybean Seedlings

ÇELİKTAŞ V., HAKLI HEYBET E., OTU BORLU H., KILIÇ A., BAKAL H.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.1332

VII. Bread Wheat Seedlings? Response to Allelopathic Effect of Cocklebur (*Xanthium strumarium* L.) With Some Physiological Parameters

ÇELİKTAŞ V., OTU BORLU H.

3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), Adana, Turkey, 24 - 26 October 2018, pp.1322-1324

VIII. DOES SALT PRE-TREATMENT PROVIDE AMELIORATION EFFECT ON TOXIC BORON LEVELS IN TWO SUNFLOWER CULTIVARS?

ÇULHA Ş., OTU H., BALKAN A. S., EKMEKÇİ Y.

International Agricultural, Biological & Life Science Conference, Edirne, Turkey, 2 - 05 September 2018, pp.444

IX. Effects of Salinity on Some Physiological Traits In Seven Different Durum Wheat Cultivars (*Triticum turgidum* subsp. durum)

OTU BORLU H., ÇAKAN H., DÜZENLİ S.

1. International Congress on Plant Biology, 10 - 12 May 2018

- X. **The Effects of Lead and Cadmium on the Some Growth Parameters of Bread Wheat (*Triticum aestivum* cv. *Sagittario*)**
KILIÇ A., ÖNGÜN S., OTU BORLU H., ÇAKAN H.
1. International Congress on Plant Biology, 10 - 12 May 2018
- XI. **Response of Two Durum Wheat Genotypes (Claudio and Gökgöl 79) to Salinity**
OTU BORLU H., ÇAKAN H., Düzenli S., ÖZKAN H.
SCIENCE AND ENGINEERING CONGRESS, Adana, Turkey, 25 - 27 October 2017, pp.808
- XII. **The Effects of Different Salt Concentrations on Sunflower and Cotton Seedlings' Germination and Growth**
KILIÇ A., OTU BORLU H.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017
- XIII. **The Effects of Different Salt Concentrations on Sunflower and Cotton Seedlings? Germination and Growth**
Kılıç A., OTU H.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.1757
- XIV. **INVESTIGATION OF ANTIMICROBIAL ACTIVITIES OF LAURUS NOBILIS ESSENTIAL OILS**
ÇELİKTAŞ V., OTU H., UÇAR Y., DÜZENLİ S.
First International Congress on Medical and Aromatic Plants, Konya, Turkey, 9 - 12 May 2017, pp.739
- XV. **The Investigation of Different Lead Concentrations on Sunflower's (*Helianthus annuus* L. cv Eklor) Some Physiological Parameters**
OTU H., AVCI M., ÇELİKTAŞ V., DÜZENLİ S.
International Conference on Civil and Environmental Engineering (ICOCEE - Cappadocia), Nevşehir, Turkey, 8 - 10 May 2017, pp.3270
- XVI. **The effects of different lead concentrations on sunflower (*helianthus annuus* l. Cv eklor) growth and lead accumulation**
OTU H., ÇELİKTAŞ V., DÜZENLİ S., AVCI M.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October - 28 December 2016, pp.4112
- XVII. **Some toxic effects of lead on *urtica dioica* l. Seedlings**
AVCI M., OTU H., DÜZENLİ S.
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 - 28 October 2016, pp.3972
- XVIII. **Some Physiological Effects of Copper on Wheat Cultivars**
OTU BORLU H., ÇELİKTAŞ V., DÜZENLİ S., İLBUĞA G., AVCI M.
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES, 31 August 2015 - 03 September 2016
- XIX. **SOME PHYSIOLOGICAL EFFECTS OF COPPER ON WHEAT CULTIVARS**
OTU H., ÇELİKTAŞ V., DÜZENLİ S., İLBUĞA G., AVCI M.
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (IBCESS), Giresun, Turkey, 31 August - 03 September 2016, pp.77
- XX. **Physiological Effects of Five Herbicides on Wheat Cultivars**
ÇELİKTAŞ V., DÜZENLİ S., OTU H.
World Congress on Civil, Structural, and Environmental Engineering ;International Conference on Air, Water, and Soil Pollution and Treatment, Prag, Czech Republic, 30 - 31 March 2016
- XXI. **Makarnalık ve Ekmeklik Buğdayda Kadmiyum ve Paclobutrazol Uygulamalarının Etkisinin Araştırılması**
OTU H., ÇELİKTAŞ V., DÜZENLİ S.
Bitki Ekolojisi Sempozyumu, Sinop, Turkey, 6 - 09 May 2015, pp.356
- XXII. **Kadmiyum Toksikitesi Altındaki Biber (*Capsicum annum*L.) Çeşitlerine Salisilik Asidin Etkisi**

OTU H., SEZGİN S., İLBUĞA G., DÜZENLİ S.

22. ULUSAL BİYOLOJİ KONGRESİ, Eskişehir, Turkey, 23 - 27 June 2014, pp.119

XXIII. **Aspir (*Carthamus tinctorius*, Asteraceae) Çeşitlerinde Tuz Ön Uygulamasının Bor Toksisitesindeki Rolü**

TURAN Ö., ÇULHA Ş., OTU H., BALKAN A. S., EYİDOĞAN F., EKMEKÇİ Y.

21. ULUSAL BİYOLOJİ KONGRESİ, İzmir, Turkey, 3 - 07 September 2012, pp.518-519

Supported Projects

ÇAKAN H., OTU H., DÜZENLİ S., Project Supported by Higher Education Institutions, Farklı Makarnalık Buğday Genotiplerinde *Triticum turgidum* ssp durum cvs Tuz Uygulamalarının Fizyolojik Parametrelerle Araştırılması, 2016 - 2023

DÜZENLİ S., ÇALIŞKAN A. F., ÇELİKTAŞ V., OTU H., Project Supported by Higher Education Institutions, *Laurus nobilis* Bitkisinin Meyve ve Yapraklarından elde Edilen Yağların *Aphis fabae* nin Mücadelesinde Kullanılabilirliğinin Araştırılması, 2016 - 2017

DÜZENLİ S., ÇELİKTAŞ V., OTU H., Project Supported by Higher Education Institutions, Physiological Effects of Five Herbicides on Wheat Cultivars, 2016 - 2016

DÜZENLİ S., OTU H., Project Supported by Higher Education Institutions, Paclobutrazolün Kadmiyum Stresindeki Buğday Bitkilerine Fizyolojik ve Biyokimyasal Etkileri, 2013 - 2015

Metrics

Publication: 33

Citation (WoS): 19

H-Index (WoS): 2

Congress and Symposium Activities

12. 3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Attendee, Ankara, Turkey, 2020

1. International Congress on Plant Biology, Attendee, Konya, Turkey, 2018

International Conference on Civil and Environmental Engineering (ICOCEE - Cappadocia), Attendee, Nevşehir, Turkey, 2017

V. Çukurova Biyoteknoloji Günleri, Attendee, Adana, Turkey, 2017

1st International Mediterranean Science and Engineering Congress, Attendee, Adana, Turkey, 2016

1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (1st IBCESS), Attendee, Giresun, Turkey, 2016

International Conference on Air, Water, and Soil Pollution and Treatment, Attendee, Praha, Czech Republic, 2016

EKOLOJİ SEMPOZYUMU, Attendee, Sinop, Turkey, 2015

3. ÇUKUROVA BİYOTEKNOLOJİ GÜNLERİ, Attendee, Adana, Turkey, 2015

22. ULUSAL BİYOLOJİ KONGRESİ, Attendee, Eskişehir, Turkey, 2014

21. ULUSAL BİYOLOJİ KONGRESİ, Attendee, Eskişehir, Turkey, 2012