

## Asst. Prof. HASAN DURUKAN

### Personal Information

**Email:** hasandurukan@cumhuriyet.edu.tr

**Web:** <https://avesis.cumhuriyet.edu.tr/hasandurukan>

### International Researcher IDs

ORCID: 0000-0002-2255-7016

Yoksis Researcher ID: 27219

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Application of chemometric modeling for ionic liquid-based ultrasonic-assisted dispersive liquid-liquid microextraction: Analysis of fosetyl-aluminum in fruit and vegetable samples**  
Haq H. U., ELİK A., DURUKAN H., SARAÇ H., DEMİRBAŞ A., Boczkaj G., GÜRSOY N., ALTUNAY N.  
Journal of Food Composition and Analysis, vol.124, 2023 (SCI-Expanded)
- II. **Application of levulinic acid-based natural deep eutectic solvents for extraction and determination of deltamethrin in food samples**  
ELİK A., DURUKAN H., SARAÇ H., DEMİRBAŞ A., ALTUNAY N.  
SUSTAINABLE CHEMISTRY AND PHARMACY, vol.30, 2022 (SCI-Expanded)
- III. **Vortex assisted magnetic ionic liquid based dispersive liquid-liquid microextraction approach for determination of metribuzin in some plant samples with UV-Vis spectrophotometer**  
ELİK A., SARAÇ H., DURUKAN H., DEMİRBAŞ A., ALTUNAY N.  
MICROCHEMICAL JOURNAL, vol.181, 2022 (SCI-Expanded)
- IV. **Effects of Biochar Rates on Yield and Nutrient Uptake of Sugar Beet Plants Grown under Drought Stress**  
DURUKAN H., DEMİRBAŞ A., TÜRKEKUL İ.  
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.51, no.21, pp.2735-2745, 2020 (SCI-Expanded)
- V. **THE IMPACTS OF THE BIOCHAR ADDITION IN DIFFERENT DOSES ON YIELD AND NUTRIENT UPTAKE OF THE CHICKPEA PLANT (CICER ARIETINUM L.) UNDER THE CONDITIONS WITH AND WITHOUT INCUBATION**  
DEMİRBAŞ A., KARAKÖY T., DURUKAN H., ERDEM H.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, pp.713-721, 2017 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Determination of The Yield and Yield Parameters of Demre Sivrisi, Dogal Sarı Sivri and Dogal Carliston (Capsicum annumm L.) Pepper Varieties Grown By Fertigation Method in Greenhouse Conditions Ve Verim Parametrelerinin Belirlenmesi**  
Demirbaş A., Durukan H., Öztük M., Saraç H.  
Turkish Journal of Agriculture - Food Science and Technology, vol.10, no.sp1, pp.2876-2881, 2022 (Peer-Reviewed Journal)
- II. **Önemli Tıbbi Bitkilerden Biri Olan Achillea millefolium L. (Civanperçemi) Bitkisinin Besin Elementi Konsantrasyonları ve Antioksidan Aktivitesi**  
SARAÇ H., DURUKAN H., DEMİRBAŞ A.  
Turkish Journal of Agriculture - Food Science and Technology, vol.9, no.3, pp.590-594, 2021 (Peer-Reviewed)

Journal)

- III. **Farklı Dozlarda Vermikompost Uygulamasının Mısır Bitkisinin Verimine ve Besin Elementleri Alımına Etkisi**  
DURUKAN H., SARAÇ H., DEMİRBAŞ A.  
Ziraat Fakültesi Dergisi, pp.45-51, 2020 (Peer-Reviewed Journal)
- IV. **Sivas İli Doğal Florasından Toplanan Sarı Kantaron (*Hypericum scabrum* L.) ve Aslan Pençesi (*Alchemilla mollis* (Buser) Rothm) Bitkilerinin Bazı Kalite Kriterlerinin Belirlenmesi**  
Uçar Sözmen E., Eryugur N., Akpulat H. A., Çetin M. D., Durukan H., Demirbaş A., Karaköy T.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.2, pp.1410-1418, 2020 (Peer-Reviewed Journal)
- V. **Bioactivity and Therapeutic Properties of Evelik (*Rumex crispus*), A Naturally Growing and Edible Plant in Sivas Province**  
DURNA DAŞTAN S., DURUKAN H., DEMİRBAŞ A., DÖNMEZ E.  
turkish journal of agriculture-food science and technology, vol.7, pp.67-71, 2019 (Peer-Reviewed Journal)
- VI. **The Effects of Solid and Liquid Vermicompost Application on Yield and Nutrient Uptake of Tomato Plant**  
Tutar U., Demirbaş A., Durukan H.  
Türk Tarım - Gıda Bilim ve Teknoloji Dergisi, vol.7, no.7, pp.1069-1074, 2019 (Peer-Reviewed Journal)
- VII. **Kırmızı Gelincik (Fam: Papaveraceae, *Glaucium grandiflorum* Boiss.&Huet var. *grandiflorum*) Bitkisinin Farklı Özütlerinin Besin Elementi İçeriğinin ve In Vitro Antiproliferatif Etkilerinin Değerlendirilmesi**  
SARAÇ H., DAŞTAN T., DURUKAN H., DURNA DAŞTAN S., DEMİRBAŞ A., KARAKÖY T.  
Isparta Uygulamalı Bilimler Üniversitesi Ziraat Fakültesi Dergisi, pp.417-428, 2018 (Peer-Reviewed Journal)
- VIII. **Madımak (*Polygonum cognatum* Meissn.) Bitki Özütlerinin Besin Elementleri ve In Vitro Antikanserojen Aktiviteleri Yönünden Değerlendirilmesi**  
SARAÇ H., DAŞTAN T., DEMİRBAŞ A., DURNA DAŞTAN S., KARAKÖY T., DURUKAN H.  
Isparta Uygulamalı Bilimler Üniversitesi Ziraat Fakültesi Dergisi, pp.340-347, 2018 (Peer-Reviewed Journal)
- IX. **THE EFFECTS OF DIFFERENT NITROGEN DOSES ON YIELD AND NUTRIENT UPTAKE OF ROCKET (*ERUCA SATIVA*) PLANT**  
YÖRÜK V., DURUKAN H., SARAÇ H., DEMİRBAŞ A., KARAKÖY T.  
Scientific Papers. Series B, Horticulture, pp.359-365, 2018 (ESCI)
- X. **THE EFFECTS OF DIFFERENT SALT DOSES ON YIELD AND NUTRIENT UPTAKE OF TOMATO PLANT**  
DURUKAN H., DEMİRBAŞ A.  
SCIENTIFIC PAPERS-SERIES A-AGRONOMY, vol.61, no.1, pp.71-76, 2018 (ESCI)
- XI. **THE EFFECTS OF DIFFERENT NITROGEN DOSES ON YIELD AND NUTRIENT UPTAKE OF ROCKET (*ERUCA SATIVA*) PLANT**  
YÖRÜK V., DURUKAN H., SARAÇ H., DEMİRBAŞ A., KARAKÖY T.  
SCIENTIFIC PAPERS-SERIES B-HORTICULTURE, vol.62, pp.359-365, 2018 (ESCI)
- XII. **Effects of dressing fertilizer and different nitrogen doses together with bacteria (*Rhizobium* spp.) inoculation treatments on nodulation and some parameters of chickpea (*cicer arietinum* L.)**  
DEMİRBAŞ A., DURUKAN H., PAMİRALAN H., KARAKÖY T., GÖK M.  
Agriculture Food, vol.5, pp.217-225, 2017 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **DETERMINATION OF THE BIOLOGICAL ACTIVITY OF *Lavandula stoechas* L.**  
Durukan H., Demirbaş A., Eryugur N.  
in: DIFFERENT PERSPECTIVES IN MEDICINAL AND AROMATIC PLANTS, Gülen ÖZYAZICI, Esra UÇAR, Editor, İksad Yayınevi, Ankara, pp.159-172, 2022
- II. **DETERMINATION OF SOME NUTRIENT CONCENTRATIONS AND ANTIOXIDANT ENZYME ACTIVITIES OF NATURALLY GROWN SPINACH (*Spinacia oleracea* L.) PLANT IN FIELD CONDITIONS**

SARAÇ H., DURUKAN H., DEMİRBAŞ A.

in: Mathematics and Natural Sciences Research and Theory, Karapınar Rıdvan, Editor, Livre de Lyon, Lyon, pp.33-42, 2021

III. **THE PROBLEM THAT NEGATIVELY AFFECTS AGRICULTURAL PRODUCTION: SALT STRESS**

DURUKAN H.

in: Research & Reviews in Agriculture, Forestry and Aquaculture Sciences, CENGİZLER İbrahim, DUMAN Selçuk, Editor, Gece Kitaplığı, Ankara, pp.61-73, 2021

IV. **NUTRIENT CONCENTRATIONS OF SOME MEDICINAL AND AROMATIC PLANTS CONSUMED AS FUNCTIONAL FOOD**

SARAÇ H., DURUKAN H., DEMİRBAŞ A.

in: Research & Reviews in Science and Mathematics- II, AKGÜL HASAN, AKSOY AHMET, Editor, Gece Kitaplığı, Ankara, pp.34-46, 2021

V. **KURAKLIK STRESİNİN KARAKAFES OTU (Symphytum officinale L.) BİTKİSİNDE OLUŞTURDUĞU ENZİM, KLOOROFİL VE RENK DEĞİŞİMLERİ**

AKÇAAĞY Ş. F., UÇAR E., DURUKAN H., ÖZYAZICI G.

in: RESEARCH IN MEDICINAL and AROMATIC PLANTS, ÖZYAZICI GÜLEN, Editor, İksad Yayınevi, Ankara, pp.329-346, 2020

### **Refereed Congress / Symposium Publications in Proceedings**

I. **ACTIVITIES OF DANDELION (Taraxacum officinale) EXTRACT AGAINST BREAST CANCER PROTEINS**

DURUKAN H., TÜZÜN B., SARAÇ H., DEMİRBAŞ A.

International Antalya Scientific Research and Innovative Studies Congress, 18 - 21 December 2021

II. **Activities of Laurus nobilis L. extract against Liver cancer proteins**

DURUKAN H., TÜZÜN B.

International Anatolian Congress on Medicinal and Aromatic Plants, 16 - 18 November 2021

III. **Activities of Crocus sativus L. extract against Liver cancer proteins**

DURUKAN H., TÜZÜN B.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021

IV. **Sivas ilinde doğal olarak yetişen ve yenilebilir bir bitki olarak Evelik (Rumex crispus) bitkisinin biyoaktivitesi ve terapotik nitelikleri**

DURNA DAŞTAN S., DEMİRBAŞ A., DURUKAN H., DÖNMEZ E.

tarla bitkileri kongresii, Antalya, Turkey, 28 - 31 October 2019

V. **Nutrient Composition And In Vitro Anti-Carcinogenic Activity Of Knotweed (Polygonum Cognatum Meissn.) Plant Extracts**

SARAÇ H., DAŞTAN T., DURUKAN H., DURNA DAŞTAN S., DEMİRBAŞ A., KARAKÖY T.

The 1st International Congress On Agricultural Structures And Irrigation, 10 - 13 August 2018

VI. **Nutrient Composition and In Vitro Anti-Proliferative Effects of Different Extracts of Red Poppy (Fam: Papaveraceae, Glaucium Grandiflorum Boiss.&Huet Var. Grandiflorum) Plants**

SARAÇ H., DAŞTAN T., DURUKAN H., DURNA DAŞTAN S., DEMİRBAŞ A., KARAKÖY T.

THE 1st INTERNATIONAL CONGRESS ON AGRICULTURAL STRUCTURES AND IRRIGATION, Antalya, Turkey, 26 - 28 September 2018, pp.678

VII. **The Effects Of Different Nitrogen Doses On Yield And Nutrient Uptake Of Rocket (Eruca Sativa) Plant**

YÖRÜK V., DURUKAN H., SARAÇ H., DEMİRBAŞ A., KARAKÖY T.

The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture", Bucharest, Romania, 7 - 09 June 2018, pp.77

VIII. **The Effects Of Different Salt Doses On Yield And Nutrient Uptake Of Tomato Plant**

DURUKAN H., DEMİRBAŞ A.

he International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture", Bucharest, Romania, 7 - 09 June 2018, pp.32

- IX. The Effects of Different Salt Doses on Yield and Nutrient Uptake of Tobacco Plant Under Greenhouse Conditions**  
DURUKAN H., DEMİRBAŞ A., KARAKÖY T.  
International Eurasian Conference on Biological and Chemical Sciences(EurasianBioChem 2018), 26 - 27 April 2018, pp.273
- X. Effects of dressing fertilizer and different nitrogen doses together with bacteria (Rhizobium spp.) treatment on nodulation and some parameters of schickpea (Cicer arietinum L.)**  
DEMİRBAŞ A., DURUKAN H., PAMİRALAN H., KARAKÖY T., GÖK M.  
Agriculture Food 5th International Conference, 20 - 24 June 2017
- XI. Effects of Dressing Fertilizer and Different Nitrogen Doses Together with Bacteria (Rhizobium spp.) Inoculation Treatments on Nodulation and Some Parameters of Chickpea (Cicer arietinum L.)**  
DEMİRBAŞ A., DURUKAN H., PAMİRALAN H., KARAKÖY T., GÖK M.  
5th International Conference, Agriculture Food, 20 - 24 June 2017, pp.12
- XII. Farklı Dozlarda Zn Ve Cd Uygulamalarının Şekerpancarı Etkisinin Spektralİmzasına Etkisinin Belirlenmesi**  
GÜRSOY Ö., DEMİRBAŞ A., ATUN R., DURUKAN H.  
TUFUAB 2017, Afyon, Turkey, 27 - 29 April 2017, pp.144-147
- XIII. FARKLI DOZLARDA ZN VE CD UYGULAMALARININ ŞEKERPANCARININ SPEKTRAL İMZASINA ETKİSİNİN BELİRLENMESİ**  
GÜRSOY Ö., DEMİRBAŞ A., ATUN R., DURUKAN H.  
TUFUAB IX. Teknik Sempozyumu, Afyon, Turkey, 27 - 29 April 2017
- XIV. THE EFFECTS OF APPLICATIONS OF DIFFERENT FERTIGATION TIMES ON YIELD AND NUTRIENT UPTAKE OF MUSKMELON Cucumis Melo L PLANT**  
DEMİRBAŞ A., KARAKÖY T., DURUKAN H., YÖRÜK V., ÖZTÜRK M., ERDEM H.  
International Soil Science Congress on "Soil Science in International Year of Soils 2015", Sochi, Russia, 19 - 23 October 2015
- XV. The Effects of Different Fertigation Frequencies on Yield and Nutrient Uptake of Muskmelons Cucumis Melo L International Soil Science Congress on Soil Science in International Year of Soils 2015**  
DEMİRBAŞ A., KARAKÖY T., DURUKAN H., YÖRÜK V., ÖZTÜRK M., ERDEM H.  
Sochi-Russia, Sochi, Russia, 19 - 23 October 2015
- XVI. The Effects of Different Fertigation Frequencies on Yield and Nutrient Uptake of Muskmelons (Cucumis Melo L.)**  
DEMİRBAŞ A., KARAKÖY T., DURUKAN H., YÖRÜK V., ÖZTÜRK M., ERDEM H.  
International Soil Science Congress on "Soil Science in International Year of Soils 2015", 19 - 23 October 2015, pp.453-457
- XVII. Türkiye Orijinli Bakla (Faba Bean L.) Genotiplerinin Soğuğa Dayanıklılık Yönünden İncelenmesi**  
KARAKÖY T., DEMİRBAŞ A., YÖRÜK V., TOKLU F., BALOCH F. S., DURUKAN H., ÖZTÜRK M., TON A., ANLARSAL A. E., ÖZKAN H.  
11. Tarla bitkileri Kongresi, Turkey, 7 - 10 September 2015, pp.583
- XVIII. Türkiye Orijinli Bezelye Genotiplerinin Sivas Ekolojik Koşullarında Adaptasyon Yeteneklerinin Araştırılması**  
KARAKÖY T., DEMİRBAŞ A., YÖRÜK V., DURUKAN H., ÖZTÜRK M., TOKLU F., ÖZKAN H.  
İç Anadolu Bölgesi 2. Tarım ve Gıda Kongresi., Nevşehir, Turkey, 28 - 30 April 2015