

Prof. HAKAN ENGİN

Personal Information

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Education

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Bahçe Bitkileri, Turkey 1997 - 2004

Postgraduate, Trakya University, Fen Bilimleri Enstitüsü, Bahçe Bitkileri, Turkey 1993 - 1995

Undergraduate, Trakya University, Ziraat Fakültesi, Bahçe Bitkileri, Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Çiçek Tomurcuğu Farklılaşması Dönemindeki Sulama ve Diğer Bazı Uygulamaların Kiraz ve Şeftali Ağaçlarında Görülen Çift Meyve Oluşumuna Etkileri Üzerine Araştırmalar, Ege University, Fen Bilimleri Enstitüsü, Bahçe Bitkileri, 2004

Postgraduate, Mevsimlik Çiçeklerden Tagetes sp.'nin Büyümeyi Engelleyici Kimyasal Alar Uygulaması İle Bodur Saksılı Bitki Olarak Yetiştirme Olanaklarının Belirlenmesi., Trakya University, Fen Bilimleri Enstitüsü, Bahçe Bitkileri, 1995

Research Areas

Agricultural Sciences, Agriculture, Garden Plants, Fruit Breeding and Breeding, Temperate Climate Berries

Academic Positions

Professor, Canakkale Onsekiz Mart University, Ziraat Fakültesi, Bahçe Bitkileri, 2017 - Continues

Associate Professor, Canakkale Onsekiz Mart University, Ziraat Fakültesi, Bahçe Bitkileri, 2011 - 2017

Assistant Professor, Canakkale Onsekiz Mart University, Ziraat Fakültesi, Bahçe Bitkileri Bölümü, 2007 - 2011

Research Assistant PhD, Canakkale Onsekiz Mart University, Ziraat Fakültesi, Bahçe Bitkileri Bölümü, 2004 - 2007

Research Assistant, Ege University, Faculty Of Agriculture, Bahçe Bitkileri Bölümü, 1997 - 2004

Research Assistant, Canakkale Onsekiz Mart University, Ziraat Fakültesi, Bahçe Bitkileri Bölümü, 1995 - 1997

Journal articles indexed in SCI, SSCI, and AHCI

- I. IMPROVED METHODS OF CANE SAMPLES STAINING DESTINED FOR MICROSCOPIC EXAMINATION

AND IMAGING

KUZUCU F. C., GÖKBAYRAK Z., ENGİN H.

Applied Ecology and Environmental Research, vol.22, no.6, pp.5467-5481, 2024 (SCI-Expanded)

- II. **ANALYSES OF CANE TISSUE PROFILES IN VITIS SPP.**
GÖKBAYRAK Z., KUZUCU F. C., ENGİN H.
Applied Ecology and Environmental Research, vol.22, no.2, pp.1447-1453, 2024 (SCI-Expanded)
- III. **Cytological and Palynobiometric Investigation in Vitis vinifera L.: Case Study of Cultivar 'Cardinal'**
GÖKBAYRAK Z., ENGİN H.
ERWERBS-OBSTBAU, vol.64, pp.47-53, 2022 (SCI-Expanded)
- IV. **Pollen of Arbutus unedo: Effects of plant growth regulators**
GÖKBAYRAK Z., ENGİN H., AKÇAL A., Kiraz H.
BOTANICA SERBICA, vol.44, no.1, pp.55-59, 2020 (SCI-Expanded)
- V. **Effects of Plant Growth Regulators on Sex Expression and Flower Development in Pomegranates**
ENGİN H., GÖKBAYRAK Z.
ERWERBS-OBSTBAU, vol.61, no.1, pp.23-27, 2019 (SCI-Expanded)
- VI. **Determination of the effects of growth regulators on pollen viability and germination level of tulip**
Akçal A., Gökbayrak Z., Engin H.
Acta Horticulturae, vol.1242, pp.549-552, 2019 (SCI-Expanded)
- VII. **Effects of Foliar-Applied Brassinosteroid on Viability and In Vitro Germination of Pollen Collected from Bisexual and Functional Male Flowers of Pomegranate**
GÖKBAYRAK Z., ENGİN H.
International Journal of Fruit Science, vol.18, no.2, pp.226-230, 2018 (SCI-Expanded)
- VIII. **Influence of plant growth regulators on sex differentiation and floral characteristics of pomegranate flowers: a case of brassinosteroids**
GÖKBAYRAK Z., ENGİN H.
ACTA SOCIETATIS BOTANICORUM POLONIAE, vol.87, no.3, 2018 (SCI-Expanded)
- IX. **Brassinosteroids and gibberellic acid: Effects on in vitro pollen germination in grapevine**
GÖKBAYRAK Z., ENGİN H.
Journal International des Sciences de la Vigne et du Vin, vol.51, no.3, pp.303-307, 2017 (SCI-Expanded)
- X. **Effects of 22S, 23S-Homobrassinolide and Gibberellic Acid on Occurrence of Physiological Disorders and Fruit Quality of 'Summit' and 'Regina' Sweet Cherries**
ENGİN H., GÖKBAYRAK Z., SAKALDAŞ M.
ERWERBS-OBSTBAU, vol.58, no.3, pp.203-210, 2016 (SCI-Expanded)
- XI. **ROLE OF 22S, 23S-HOMOBRASSINOLIDE AND GA(3) ON FRUIT QUALITY OF '0900 ZIRAAT' SWEET CHERRY AND PHYSIOLOGICAL DISORDERS**
ENGİN H., GÖKBAYRAK Z., SAKALDAŞ M., DURAN F. U.
ACTA SCIENTIARUM POLONORUM-HORTORUM CULTUS, vol.14, no.5, pp.99-108, 2015 (SCI-Expanded)
- XII. **Gibberellic Acid Inhibits Floral Formation and Delays Flower Differentiation in '0900 Ziraat' Sweet Cherry Cultivar**
ENGİN H., GÖKBAYRAK Z., AKÇAL A., GÜR E.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.79, no.5, pp.260-266, 2014 (SCI-Expanded)
- XIII. **Flower Aberrations in Kiwifruit (Actinidia deliciosa)**
ENGİN H., GÖKBAYRAK Z., DARDENİZ A.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.76, no.3, pp.91-94, 2011 (SCI-Expanded)
- XIV. **EFFECTS OF HYDROGEN CYANAMIDE ON THE FLORAL MORPHOGENESIS OF KIWIFRUIT BUDS**
ENGİN H., GÖKBAYRAK Z., DARDENİZ A.
CHILEAN JOURNAL OF AGRICULTURAL RESEARCH, vol.70, no.3, pp.503-509, 2010 (SCI-Expanded)
- XV. **Research on the physiological disorders and fruit quality of Cardinal peach**
ENGİN H., ŞEN F., Pamuk G., GÖKBAYRAK Z.
NEW ZEALAND JOURNAL OF CROP AND HORTICULTURAL SCIENCE, vol.38, no.1, pp.39-46, 2010 (SCI-Expanded)
- XVI. **Scanning electron microscopy of floral initiation and developmental stages in sweet cherry (Prunus**

avium) under water deficits

Engin H.

BANGLADESH JOURNAL OF BOTANY, vol.37, no.1, pp.15-19, 2008 (SCI-Expanded)

- XVII. **Examination of flower bud initiation and differentiation in sweet cherry and peach by scanning electron microscope**

ENGİN H., Uenal A.

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.31, no.6, pp.373-379, 2007 (SCI-Expanded)

- XVIII. **Scanning electron microscopy of floral initiation and developmental stages in 'Glohaven' peach (*Prunus persica* L.) under water deficit**

Engin H.

BANGLADESH JOURNAL OF BOTANY, vol.35, no.2, pp.163-168, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Anatomical observations on formation and development of adventitious root primordium in canes of *Vitis* sp.**
GOKBAYRAK Z., Engin H.
International Journal of Agriculture, Environment and Food Sciences, vol.7, no.3, pp.573-780, 2023 (Peer-Reviewed Journal)
- II. ***Arbutus andrachne*' nin Çiçek Tomurcuklarının Farklılaşması ve Çiçek Organ Taslaklarının Oluşumu**
ENGİN H., GÖKBAYRAK Z.
ÇOMÜ ziraat fakültesi dergisi, vol.10, no.2, pp.469-477, 2022 (Peer-Reviewed Journal)
- III. **Effect of Brassinosteroid Applications on Flower Sex Distribution of 'Chandler' Walnut Cultivar
Brassinosteroid Uygulamalarının 'Chandler' Ceviz Çeşidinin Çiçek Cinsiyet Dağılımına Etkisi**
ENGİN H., GÖKBAYRAK Z.
Yuzuncu Yıl University Journal of Agricultural Sciences, vol.32, no.3, pp.548-554, 2022 (Scopus)
- IV. **Fruit quality of seven nectarine cultivars produced in Turkey**
Harman Y., Akın M., Türk B., ENGİN H., Şen F.
Acta Horticulturae, vol.1275, pp.261-267, 2020 (Scopus)
- V. **Effects of Melatonin and IAA on Adventitious Root Formation in Rootstock 5BB and cv. Cabernet Sauvignon (*Vitis vinifera* L.)**
GÖKBAYRAK Z., ENGİN H., Kiraz H.
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.23, no.4, pp.835-841, 2020 (ESCI)
- VI. **Merlot ve Cabernet Sauvignon Üzüm Çeşitlerinde (*Vitis vinifera* L.) ÇiçekSalkımı Çiçek Organ Taslaklarının Morfolojik Gelişim SafhalarınınBelirlenmesi**
GÖKBAYRAK Z., ENGİN H.
ÇOMÜ Ziraat Fakültesi Dergisi, vol.7, no.1, pp.2017-2013, 2019 (Peer-Reviewed Journal)
- VII. **Bazı Nar Çeşitlerinde Farklı Çiçek Tiplerinin Çiçek Tozu Çimlenme Gücünün Belirlenmesi**
Aytan M. G., ENGİN H.
Çanakkale Onsekiz Mart University, Journal of Graduate School of Natural and AppliedSciences,, vol.5, no.1, pp.80-86, 2019 (Peer-Reviewed Journal)
- VIII. **The Biology of Pomegranate Pollen: All about Formation, Morphology, Viability, Germination and Events relating to Sperm Nuclei**
ENGİN H., GÖKBAYRAK Z.
ALINTERI JOURNAL OF AGRICULTURE SCIENCES, vol.34, no.2, pp.188-193, 2019 (ESCI)
- IX. **Floral Development Stages in *Vitis vinifera* L. and Association With Phenological Stages**
GÖKBAYRAK Z., ENGİN H.
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.22, no.3, pp.407-413, 2019 (ESCI)

- X. **Rootpac 40 Anacının Bazı Şeftali ve Badem Çeşitlerine Anaçlık Performansı**
ENGİN H.
ÇOMÜ Zir. Fak. Derg. (COMU J. Agric. Fac.), 2018 (Peer-Reviewed Journal)
- XI. **Rootpac 20 Anacının Bazı Şeftali ve Badem Çeşitlerine Anaçlık Performansı**
ENGİN H.
ÇOMÜ Zir. Fak. Derg. (COMU J. Agric. Fac.), 2018 (Peer-Reviewed Journal)
- XII. **Determination of physicochemical properties of different nectarine varieties**
ali m., yunus h., ENGİN H., sen f.
PROCEEDINGS OF THE IIIRD INTERNATIONAL SYMPOSIUM ON CUCURBITS, 2018 (Scopus)
- XIII. **Effects of Brassinosteroid, Naphthalene Acetic Acid and Gibberellic Acid on In vitro Pollen Germination of Bisexual and Functional Male Flowers of Pomegranate Cultivars**
ENGİN H., GÖKBAYRAK Z.
ÇOMÜ Ziraat Fakültesi Dergisi, 2017 (Peer-Reviewed Journal)
- XIV. **Micromorphology of pollen grains from bisexual and functional male flowers of pomegranate**
ENGİN H., GÖKBAYRAK Z.
Agrofor International Journal, vol.2, no.2, pp.40-46, 2017 (Peer-Reviewed Journal)
- XV. **N VITRO POLLEN VIABILITY AND GERMINATION OF BISEXUALAND FUNCTIONAL MALE FLOWERS OF SOME TURKISHPOMEGRANATE CULTIVARS**
ENGİN H., GÖKBAYRAK Z.
Agriculture Forestry, vol.62, no.4, pp.91-94, 2016 (Scopus)
- XVI. **Kiraz Ağaçlarında Gibberellik Asit (GA3) Uygulamaları Üzerine Araştırmalar**
ENGİN H.
Bahçe, 2016 (Peer-Reviewed Journal)
- XVII. **IN VITRO POLLEN VIABILITY AND GERMINATION OF HERMAPHRODİTİC AND FUNCTIONAL MALE FLOWERS OF SOME TURKISH POMEGRANATE CULTIVARS**
ENGİN H., GÖKBAYRAK Z.
Agriculture and Foretry, 2016 (Peer-Reviewed Journal)
- XVIII. **ÇANAKKALE'DE MEYVECİLİK**
ENGİN H.
comü ziraat fakültesi dergisi, 2013 (Peer-Reviewed Journal)
- XIX. **Kivi çiçeklerinde yassı ve yelpaze dişi organ oluşumu**
GÖKBAYRAK Z., ENGİN H., DARDENİZ A.
Süleyman Demirel Üniversitesi Ziraat Fakültesi Dergisi, vol.3, no.2, pp.11-16, 2008 (Peer-Reviewed Journal)
- XX. **ŞEFTALİ AĞAÇLARINDA (CV. 'SPRINGTIME', CV. 'EARLY RED')GÖRÜLEN BAZI FİZYOLOJİK BOZUKLUKLARA VE MEYVE KALİTESİNESULAMA, GİBBERELLİN VE AZOT UYGULAMALARININ ETKİLERİ**
ENGİN H., ŞEN F., PAMUK MENGÜ G.
Anadolu Tarım Bilimleri Dergisi, 2007 (Peer-Reviewed Journal)
- XXI. **Determination of pollen germination of some cultivars**
ENGİN H.
Ege Journal of Agricultural Research, 2003 (Peer-Reviewed Journal)

Books

- I. **Kiraz Yetiştiriciliği**
ENGİN H., AKÇAL A.
Favori, 2013

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Bazı Trabzon Hurması Çeşitlerinde Çiçek ve Meyve Dökümleri Üzerine Araştırmalar**
Kaya Y., ENGİN H.
II. HASAT INTERNATIONAL AGRICULTURE AND FOREST CONGRESS, 8 - 09 November 2019, (Full Text)
- II. **Bitki büyüme düzenleyicilerinin 5BB anacı ile Cabernet Sauvignon çeşidinin köklenmesi ve gelişmesi üzerine etkisi.**
Kiraz H., GÖKBAYRAK Z., ENGİN H.
1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), 22 - 23 November 2018, (Summary Text)
- III. **Determination of physicochemical properties of different nectarine varieties**
yunus h., ali m., ENGİN H., sen f.
International Symposium on Strategies and Technologies to Maintain Quality and Reduce Postharvest Losses, 22 - 25 August 2018, (Full Text)
- IV. **Kivi yetiştiriciliğinde karşılaşılan sorunlar ve çözüm önerileri (Problems in Kiwifruit Production and Possible Solutions)**
ENGİN H., GÖKBAYRAK Z.
Lapseki sempozyumu, Turkey, 20 - 24 June 2007, (Full Text)
- V. **Micromorphology of pollen grains of some grape cultivars VII International Scientific Agriculture Symposium**
GÖKBAYRAK Z., ENGİN H.
VII International Scientific Agriculture Symposium, 6 - 09 October 2016, (Full Text)
- VI. **Determination The Effects of Growth Regulators on Pollen Viability and Germination Level of Some Tulip Cultivars**
AKÇAL A., GÖKBAYRAK Z., ENGİN H.
III International Symposium on Horticulture in Europe (SHE2016), 17 - 21 October 2016, (Summary Text)
- VII. **Determination the effects of growth regulators on pollen viability and germination level of some tulip cultivars**
AKÇAL A., GÖKBAYRAK Z., ENGİN H.
III International Symposium on Horticulture in Europe, 17 - 21 October 2016, (Summary Text)
- VIII. **Determination the effects of growth regulators on pollen viability and germination level of some tulip cultivars**
AKÇAL A., GÖKBAYRAK Z., ENGİN H.
III International symposium on horticulture in europe, 17 - 21 October 2016, (Summary Text)
- IX. **micromorphology of pollen grains from bisexual and functional male flowers of pomegranate**
ENGİN H., GÖKBAYRAK Z.
7th International Scientific Agriculture Symposium, 6 - 09 October 2016, (Summary Text)
- X. **in vitro pollen viability and germination of bisexual and functional male flowers of some turkish pomegranate cultivars**
ENGİN H., GÖKBAYRAK Z.
7th International Scientific Agriculture Symposium, 6 - 09 October 2016, (Summary Text)
- XI. **Influence of brassinosteroids and gibberellic acid on in vitro pollen germination of table grape Vitis vinifera L cultivars Italia adn Cardinal**
GÖKBAYRAK Z., ENGİN H.
15th Serbian Congress of Fruit and Grapevine Producers with international participation, 21 - 24 September 2016
- XII. **Effects of field applied 22S 23S Homobrassinolide on in vitro viability and germination of pollens collected from bisexual and functional male flowers of pomegranate**
ENGİN H., GÖKBAYRAK Z.
15th Serbian Congress of Fruit and Grapevine Producers with international participation, 21 - 24 September 2016, (Summary Text)
- XIII. **Flower Biology of Some Turkish Pomegranates**

ENGİN H., GÖKBAYRAK Z.

15th Serbian Congress of Fruit and Grapevine Producers with international participation, 21 - 24 September 2016, (Summary Text)

XIV. Effect of plant growth regulators on in vitro pollen germination of grapevine cultivars

GÖKBAYRAK Z., ENGİN H.

3rd Balkan Symposium on Fruit Growing, Belgrade, Serbia And Montenegro, 16 - 18 September 2015, vol.1139, pp.405-408, (Full Text)

XV. Effects of 225, 23S-homobrassinolide and gibberellic acid on formation of double fruits in 'Bing' sweet cherry

ENGİN H., GÖKBAYRAK Z.

3rd Balkan Symposium on Fruit Growing, Belgrade, Serbia And Montenegro, 16 - 18 September 2015, vol.1139, pp.299-302, (Full Text)

XVI. Effect of Plant Growth Regulators on enhancing in vitro Pollen Germination in Grapevine Cultivars

GÖKBAYRAK Z., ENGİN H.

3rd Balkan Symposium on Fruit Growing, Belgrade, Serbia, 16 - 18 September 2015, (Full Text)

XVII. Leaf Water Potential of Pomegranate (*Punica granatum* L.) under Different Irrigation Levels

ENGİN H., HEPAKSOY S., KUKUL KURTTAŞ Y. S.

1st International Symposium on Pomegranate and Minor Mediterranean Fruits, 22 March - 25 January 2009, (Full Text)

XVIII. The Effect of Irrigation, Gibberellic Acid and Nitrogen on the Occurrence of Double Fruit in 'Van' Sweet Cherry

ENGİN H., Uenal A.

5th International Cherry Symposium, Bursa, Turkey, 6 - 10 June 2005, pp.645-647, (Full Text)

XIX. Double Fruit Formation and the Occurrence of Two Pistils: Examination by Scanning Electron Microscopy in Sweet Cherry

ENGİN H., Uenal A.

5th International Cherry Symposium, Bursa, Turkey, 6 - 10 June 2005, pp.651-653, (Full Text)

XX. Hayward Kivi (*Actinidia deliciosa*) Çeşidinde Gözlenen Farklı Meyve Tiplerine Ait Çekirdeklerin Çimlenme Güçlerinin Belirlenmesi (İng. özet)

GÖKBAYRAK Z., DARDENİZ A., ENGİN H.

V. Ulusal Bahçe Bitkileri Kongresi, Turkey, 4 - 07 September 2007, vol.1, pp.603-606, (Full Text)

XXI. Determination of germination rate of seed derived from variously shaped kiwifruits

GÖKBAYRAK Z., DARDENİZ A., ENGİN H., Aygün h.

V. National Horticultural Congress, Turkey, 4 - 07 October 2007

XXII. Çanakkale Bölgesi Kiwi Bağlarındaki Meyve Şekil Bozuklukları

GÖKBAYRAK Z., ENGİN H.

Lapseki Sempozyumu, Turkey, 20 - 24 June 2007, (Full Text)

XXIII. ÇANAKKALE BÖLGESİNDE YETİŞTİRİLEN SERT ÇEKİRDEKLİ MEYVE AĞAÇLARINDA GÖRÜLEN FİZYOLOJİK BOZUKLUKLAR VE YETİŞTİRME AŞAMASINDA ALINMASI GEREKEN ÖNLEMLER

ENGİN H.

Lapseki Sempozyumu, Turkey, 20 - 24 June 2007, (Full Text)

XXIV. Salihli kiraz çeşidinin dölleme problemlerinin giderilmesi üzerine araştırmalar

GÜR E., ÜNAL A., ENGİN H.

Türkiye IV Ulusal Bahçe Bitkileri Kongresi, Antalya, Turkey, 8 - 12 September 2003, (Full Text)

Funded Projects

Çiftci H. N., Aktürk D., Başer C., Engin H., Akçal A., Öztokat Kuzucu C., Kaya S., Kuzucu F. C., Deniz A., Project Supported by Other Official Institutions, Çanakkale İli İçin Yeni Bir Değer; Aronya (*Aronia melanocarpa* (Michx.) Elliott)., 2024 - 2025
GÖKBAYRAK Z., ENGİN H., GÜNDOĞDU M. A., Project Supported by Higher Education Institutions, Homobrassinolid ve

Epibrassinolid Uygulamalarının Cevizde Dişi Çiçek Oluşumuna Etkisi, 2018 - 2019

GÖKBAYRAK Z., Kiraz H., ENGİN H., Project Supported by Higher Education Institutions, Asma (Vitis sp) türünün köklenmesi üzerine indol türevi bileşiklerin etkisinin belirlenmesi, 2018 - 2019

GÖKBAYRAK Z., ENGİN H., Project Supported by Higher Education Institutions, Bazı üzüm çeşitlerine ve in vitro şartlarda uygulanan brassinosteroidlerin ve giberellik asitin polen canlılığı, çimlenmesi ve polen tüpü uzaması üzerine etkileri, 2014 - 2016

ENGİN H., Other International Funding Programs, Armut Yetiştiriciliği, 2014 - 2014

AKÇAL A., ENGİN H., Project Supported by Other Private Institutions, Lapseki Kirazının Coğrafi İşaret Tescili ve Marka Degeri, 2013 - 2013

ENGİN H., Other International Funding Programs, Bayramiç Elmasının Coğrafi İşaret Tescili ve Pazarlaması, 2012 - 2013

GÖKBAYRAK Z., DARDENİZ A., ŞEKER M., ENGİN H., Project Supported by Higher Education Institutions, Hayward Kivi Çeşitinde Farklı Budama Şiddeti Uygulamalarının Tip Dışı Meyve Oluşumu Üzerine Etkisi, 2007 - 2010

ENGİN H., Project Supported by Other Official Institutions, Sulamanın Bazı Nar Çeşitlerinin Vegetatif Gelişme ve Meyve Kalitesi Üzerine Etkileri, 2003 - 2005

ENGİN H., TUBITAK Project, Çiçek Tomurcuğu Farklılaşması Dönemindeki Sulama ve Diğer Bazı Uygulamaların Kiraz ve Şeftali Ağaçlarında Görülen Çift Meyve Oluşumuna Etkileri Üzerine Araştırmalar, 2001 - 2004

Metrics

Publication: 155

Citation (WoS): 93

Citation (Scopus): 104

H-Index (WoS): 5

H-Index (Scopus): 5

Non Academic Experience

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, DOÇENT

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, YARDIMCI DOÇENT

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, ARAŞTIRMA GÖREVLİSİ

EGE ÜNİVERSİTESİ, ARAŞTIRMA GÖREVLİSİ

ÇANAKKALE ONSEKİZ MART ÜNİVERSİTESİ, ARAŞTIRMA GÖREVLİSİ