

## Assoc. Prof. SERVET ARAS



### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ELU-7321-2022

ScopusID: 57193652420

Yoksis Researcher ID: 20244



### Education Information

Doctorate, Selcuk University, Institute Of Science, Bahçe Bitkileri (Dr), Turkey 2013 - 2018

Postgraduate, Selcuk University, Institute Of Science, Bahçe Bitkileri (YI) (Tezli), Turkey 2011 - 2013

Undergraduate, Ege University, Faculty Of Agriculture, Ziraat Mühendisliği Bölümü, Turkey 2004 - 2010

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Farklı kiraz anaçlarının ve bu anaçlara aşılı 0900 ziraat çeşidinin tuz stresine verdiği fizyolojik ve moleküler tepkilerin belirlenmesi, Selcuk University, Fen Bilimleri Enstitüsü, Bahçe Bitkileri (Dr), 2018

Postgraduate, Antifriz proteinler ve glisin betainin çilek bitkisinde soğuğa dayanıklılık üzerine etkileri, Selcuk University, Fen Bilimleri Enstitüsü, Bahçe Bitkileri (YI) (Tezli), 2013

### Research Areas

Temperate Climate Berries, Pomaceous Fruits (apples, pears, quinces, etc.), Drupaceous Fruits (apricots, plums, cherries, peaches, etc.)

### Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Faculty of Agriculture, Bahçe Bitkileri, 2020 - Continues

Research Assistant, Yozgat Bozok University, Faculty of Agriculture, Bahçe Bitkileri, 2016 - 2020

Research Assistant, Selcuk University, Faculty Of Agriculture, Department Of Horticulture, 2011 - 2016

## Courses

Bahçe Bitkileri, Undergraduate, 2018 - 2019

## Supervised Theses

Aras S., Sodyum Nitroprussidin Çilek Bitkisinde Sel Baskını Stresine Karşı Etkilerinin Belirlenmesi, Postgraduate, E.KAYA(Student), 2023

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

- I. **Effects of Ascorbic and Oxalic Acids on Cucumber Seedling Growth and Quality Under Mildly Limey Soil Conditions**  
Çoban G., ARAS S.  
Gesunde Pflanzen, vol.75, no.5, pp.1925-1932, 2023 (SCI-Expanded)
- II. **Comparison of Different Cover Materials and External Brassinosteroid Application in Strawberry Growing in Temperate Climate Conditions**  
Balcı G., Keles H., Aras S.  
Erwerbs-Obstbau, vol.65, no.4, pp.1027-1033, 2023 (SCI-Expanded)
- III. **The Comprehensive Responses of Young Sweet Cherry Trees Under Moderate Saline Conditions Depending on the Different Rootstocks**  
ARAS S., Eşitken A., Karakurt Y.  
Erwerbs-Obstbau, vol.65, no.3, pp.443-451, 2023 (SCI-Expanded)
- IV. **Silicon Increased Sodium Transporter Gene Expressions in Apple Under Short- and Long-Term Salt Stress**  
Kılıç M., Arslan E., ARAS S., Eşitken A.  
Erwerbs-Obstbau, vol.65, no.3, pp.419-422, 2023 (SCI-Expanded)
- V. **Effect of Fusarium oxysporum infection on strawberry under calcium, iron, and zinc deficiency conditions**  
Aras S., Endes A.  
Zemdirbyste, vol.110, no.1, pp.71-78, 2023 (SCI-Expanded)
- VI. **Iron deficiency impacts chlorophyll biosynthesis, leaf cell expansion, xylem development and physiology of Prunus persica grafted onto rootstocks Garnem and GF 677**  
ARAS S., KELES H., BOZKURT E.  
ZEMDIRBYSTE-AGRICULTURE, vol.109, no.1, pp.55-62, 2022 (SCI-Expanded)
- VII. **Exogenous EBL (24-Epibrassinolide) Alleviate Cold Damage in Strawberry**  
BALCI G., ARAS S., KELES H.  
ERWERBS-OBSTBAU, vol.63, no.3, pp.273-278, 2021 (SCI-Expanded)
- VIII. **SNP Mitigates Malignant Salt Effects on Apple Plants**  
ARAS S., KELES H., EŞİTKEN A.  
ERWERBS-OBSTBAU, vol.62, no.1, pp.107-115, 2020 (SCI-Expanded)
- IX. **Silicon nutrition counteracts salt-induced damage associated with changes in biochemical responses in apple**  
ARAS S., KELES H., Esitken A.  
BRAGANTIA, vol.79, no.1, pp.1-7, 2020 (SCI-Expanded)
- X. **SILICON NUTRITION IN ALLEVIATING SALT STRESS IN APPLE PLANT**

- ARAS S.  
ACTA SCIENTIARUM POLONORUM-HORTORUM CULTUS, vol.19, no.1, pp.3-10, 2020 (SCI-Expanded)
- XI. **Characterization of quince (*Cydonia oblonga* Mill.) accessions by simple sequence repeat markers**  
Güney M., Kafkas S., Koç A., Aras S., Keles H., Karci H.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.43, no.1, pp.69-79, 2019 (SCI-Expanded)
- XII. **Morphological and physiological responses and some WRKY genes expression in cherry rootstocks under salt stress**  
ARAS S., EŞİTKEN A., Karakurt Y.  
SPANISH JOURNAL OF AGRICULTURAL RESEARCH, vol.17, no.4, 2019 (SCI-Expanded)
- XIII. **Polypeptide Alteration During The Cold Stratification In Mazzard Seed**  
ARAS S., ARSLAN E., EŞİTKEN A., Kilic M.  
ERWERBS-OBSTBAU, vol.60, no.3, pp.183-186, 2018 (SCI-Expanded)
- XIV. **Plant growth promoting rhizobacteria enhanced leaf organic acids, FC-R activity and Fe nutrition of apple under lime soil conditions**  
ARAS S., ARIKAN Ş., İPEK M., EŞİTKEN A., PIRLAK L., DÖNMEZ M. F., TURAN M.  
ACTA PHYSIOLOGIAE PLANTARUM, vol.40, no.6, 2018 (SCI-Expanded)
- XV. **Physiological Responses of Cherry Rootstocks to Short Term Salinity**  
ARAS S., EŞİTKEN A.  
ERWERBS-OBSTBAU, vol.60, no.2, pp.161-164, 2018 (SCI-Expanded)
- XVI. **Effect of Plant Growth Promoting Rhizobacteria on Fe Acquisition in Peach (*Prunus Persica* L) Under Calcareous Soil Conditions**  
ARIKAN Ş., EŞİTKEN A., İPEK M., ARAS S., ŞAHİN M., PIRLAK L., DÖNMEZ M. F., TURAN M.  
JOURNAL OF PLANT NUTRITION, vol.41, no.17, pp.2141-2150, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Synergist effects of some PGPR bacteria and sodium nitroprusside in pepper plant**  
KAYAASLAN Z., ARAS S., AYDÖNER ÇOBAN G.  
International Journal of Agriculture, Environment and Food Sciences, vol.8, no.4, pp.894-903, 2024 (Peer-Reviewed Journal)
- II. **Stomatal Behaviors and Physiological Responses Affected by Iron Deficiency in Peach Plants Grafted onto Garnem and GF 677**  
ARAS S., KELES H., BOZKURT E.  
JOURNAL OF TEKIRDAG AGRICULTURE FACULTY-TEKIRDAG ZIRAAT FAKULTESI DERGISI, vol.18, no.2, pp.303-311, 2021 (ESCI)
- III. **Determination of xylem water flow velocity of some *Prunus* shoots by dye infusion technique**  
ARAS S.  
Harran Tarım ve Gıda Bilimleri Dergisi, vol.25, pp.287-292, 2021 (Peer-Reviewed Journal)
- IV. **Shading Treatments Improved Plant Growth and Physiological Responses of Sweet Cherry Plants Subjected to Salt Stress**  
ARAS S., KELES H., BOZKURT E.  
ALINTERI JOURNAL OF AGRICULTURE SCIENCES, vol.36, no.1, pp.66-70, 2021 (ESCI)
- V. **Estimation of Canopy Area of Fruit Trees Using Light Unmanned Aerial Vehicle (UAV) and Image Processing Methods**  
Yıldız A. K., Keles H., Aras S.  
TURKISH JOURNAL OF AGRICULTURE: FOOD SCIENCE AND TECHNOLOGY, vol.8, no.5, pp.1039-1042, 2020 (Peer-Reviewed Journal)
- VI. **Responses of Cherry Plant Grafted onto CAB-6P, MaxMa 14 and Mazzard Rootstocks to Short Term Salinity**  
ARAS S., EŞİTKEN A.

- Journal of Agricultural Studies, vol.7, no.3, pp.29-37, 2019 (Peer-Reviewed Journal)
- VII. **Evaluation of Leaf Properties of Eight Cherry Cultivars Grafted onto Maxma 14 Rootstock**  
ARAS S., KELES H.  
Journal of Agricultural Studies, vol.7, no.3, pp.145-153, 2019 (Peer-Reviewed Journal)
- VIII. **Responses of Apple Plants to Drought Stress**  
ARAS S., KELES H.  
Journal of Agricultural Studies, vol.7, no.3, pp.154-160, 2019 (Peer-Reviewed Journal)
- IX. **Responses of Apple Plants to Salinity Stress**  
ARAS S., EŐİTKEN A.  
Yüzüncü Yıl Üniversitesi Tarım Bilimleri Dergisi, vol.29, no.2, pp.253-257, 2019 (Scopus)
- X. **Physiological Effects of Photoselective Nets in Strawberry Plant**  
ARAS S., EŐİTKEN A.  
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.22, pp.342-346, 2019 (ESCI)
- XI. **Dry Matter Partitioning and Salt Tolerance via Salicylic Acid Treatment in Strawberry Plant Under Salt Stress**  
ARAS S., EŐİTKEN A.  
KSU TARIM VE DOGA DERGISI-KSU JOURNAL OF AGRICULTURE AND NATURE, vol.22, pp.337-341, 2019 (ESCI)
- XII. **Effects of silicon to salt stress on strawberry plant**  
ARAS S., EŐİTKEN A.  
Harran Tarım ve Gıda Bilimleri Dergisi, vol.22, no.4, pp.478-483, 2018 (Peer-Reviewed Journal)
- XIII. **ARMUTTA ARA ANAÇLI FİDAN ÜRETİMİNDE AYNI ANDA YAPILAN ÇİFT AŐILAMANIN VE BAZI UYGULAMALARIN AŐI BAŐARISI VE FİDAN GELİŐİMİNE ETKİSİ**  
İPEK M., ARIKAN Ő., EŐİTKEN A., PIRLAK L., ARAS S., ERSİN A.  
Journal of Agricultural Faculty of Gaziosmanpaşa University, vol.35, pp.57-62, 2018 (Peer-Reviewed Journal)

## **Books**

- I. **Erik YetiŐtiriciliğinde Abiyotik Stresler**  
ARAS S., ÖZYALIN S.  
in: Erik YetiŐtiriciliĐi, GÜNEY MÜJGAN, ARAS SERVET, Editor, iksad publishing house, Ankara, pp.91-99, 2024
- II. **Kirazda Abiyotik Stresler**  
ARAS S., ÖZYALIN S.  
in: Kiraz, Keles, Hakan; Güney, Murat, Editor, iksad publishing house, Ankara, pp.139-146, 2023

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

- I. **ANATOMICAL ALTERATIONS AFFECT BIODIVERSITY OF FRUIT SPECIES**  
ARAS S., GÜNEY M., KELES H.  
BALKAN 12TH INTERNATIONAL CONFERENCE ON APPLIED, ÜSKÜP, Macedonia, 1 - 03 November 2024
- II. **USE OF NANOPARTICLES IN AGRICULTURE**  
KELES H., ARAS S., GÜNEY M.  
Balkan 12th International Conference on Applied Sciences, Üsküp, Macedonia, 1 - 03 November 2024, pp.154-164
- III. **SOME AMINO ACIDS USED TO ENHANCE STRESS TOLERANCE IN VEGETABLES AND THEIR EFFECTS**  
AYDÖNER ÇOBAN G., ERGÜN Z., ARAS S.  
BALKAN 12th INTERNATIONAL CONFERENCE ON APPLIED SCIENCES NOVEMBER 1 - 3, 2024 – SKOPJE, Üsküp, Macedonia, 1 - 03 November 2024, pp.210-223
- IV. **EFFECTS OF ABIOTIC STRESS FACTORS ON FRUIT SPECIES BIODIVERSITY**  
ARAS S., GÜNEY M., AYDÖNER ÇOBAN G.  
Balkan 12th International Conference on Applied Sciences., Skopje, Macedonia, 1 - 03 November 2024, pp.172-176

- V. **The Role of Secondary Metabolites in Plant Stress Responses: Biotechnological Approaches for Crop Improvement**  
GÜNEY M., KELES H., ARAS S.  
Balkan 12th International Conference on Applied Sciences, Üsküp, Macedonia, 1 - 03 November 2024
- VI. **SSR AND TRANSCRIPTOME ANALYSIS IN HORTICULTURAL FRUITS**  
GÜNEY M., KELES H., ARAS S.  
Balkan 12th International Conference on Applied Sciences, Üsküp, Macedonia, 1 - 03 November 2024, pp.182-191
- VII. **Effects of Flood Stress on Fruit Species**  
ARAS S., GÜNEY M., KELES H.  
13. International Conference On Agriculture, Animal Science And Rural Development, Turkey, 28 - 29 November 2023
- VIII. **DEVELOPMENT OF JUJUBE (Zizyphus jujuba Mill.) PRODUCTION IN TURKEY IN RECENT YEARS**  
KELES H., ARAS S.  
International Modern Scientific Research Congress -II, Turkey, 23 December 2021
- IX. **ECO-FRIENDLY SOLUTIONS TO BE USED AGAINST DROUGHT STRESS**  
KELES H., ARAS S.  
International Modern Scientific Research Congress -II, Turkey, 23 - 25 December 2021
- X. **DISADVANTAGES OF FRUIT GROWING IN CALCAREOUS SOIL**  
ARAS S., KELES H.  
3. INTERNATIONAL BAKU SCIENTIFIC RESEARCH CONGRESS, Baku, Azerbaijan, 15 October 2021
- XI. **EVALUATION OF HAZELNUT HUSK AS ORGANIC MATERIALS**  
BOZKURT E., KELES H., ARAS S.  
MIDDLE EAST INTERNATIONAL CONFERENCE ON CONTEMPORARY SCIENTIFIC STUDIES-VI, Lebanon, 20 September 2021
- XII. **OVERVIEW OF STUDIES ON VARIETY DEVELOPMENT IN APPLE**  
BOZKURT E., KELES H., ARAS S.  
MIDDLE EAST INTERNATIONAL CONFERENCE ON CONTEMPORARY SCIENTIFIC STUDIES-VI, Beirut, Lebanon, 20 - 22 September 2021
- XIII. **ECO-FRIENDLY SOLUTIONS AND USAGE OPPORTUNITIES IN AGRICULTURAL PRODUCTION**  
KELES H., ARAS S.  
MIDDLE EAST INTERNATIONAL CONFERENCE ON CONTEMPORARY SCIENTIFIC STUDIES-VI, Beirut, Lebanon, 20 September 2021
- XIV. **EFFECT OF CALCIUM, IRON, PHOSPHORUS AND BORON DEFICIENCIES ON SOME LEAF PROPERTIES AND LEAF VENATION IN STRAWBERRY**  
ARAS S., KELES H.  
III. INTERNATIONAL NEW YORK CULTURAL INTERACTION AND ACADEMIC STUDIES CONGRESS, 29 - 30 May 2021
- XV. **COMPARISON OF RELATIVE GROWTH RATES OF PEACH PLANTS GRAFTED ONTO GARNEM AND GF677**  
ARAS S., KELES H.  
III. INTERNATIONAL NEW YORK CULTURAL INTERACTION AND ACADEMIC STUDIES CONGRESS, 29 May 2021
- XVI. **The Effects of Natural Water-Retaining Materials on Pear Plants in Drought Conditions**  
KELES H., ARAS S., BOZKURT E.  
International Khazar Conference on Scientific Research, 18 September - 20 August 2020
- XVII. **EFFECTS OF SALT STRESS IN PLANTS**  
ARAS S., KELES H.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.346-349
- XVIII. **KURAKLIK STRESİNE KARŞI SU TUTMA KAPASİTESİNİ ARTIRICILARIN KULLANIM OLANAKLARI**  
KELES H., ARAS S.  
Uluslararası Bilim, Teknoloji ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.353-357

- XIX. **ALIÇ (Crataegus spp.) ' in ANAÇ OLARAK DEĞERLENDİRİLMEPOTANSİYELİ**  
KELES H., ARAS S.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.364-367
- XX. **MİKROORGANİZMA İÇERİKLİ GÜBRELER, AVANTAJLARI VEKULLANIM OLANAKLARI**  
KELES H., ARAS S.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.358-363
- XXI. **LIMITING FACTORS FOR CHERRY PRODUCTION**  
ARAS S., KELES H.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.343-345
- XXII. **EFFECT OF DROUGHT STRESS ON PEACH CULTIVAR“CRESTHAVEN” GRAFTED ONTO GARNEM AND GF677ROOTSTOCKS**  
ARAS S., KELES H.  
ULUSLARARASI BİLİM, TEKNOLOJİ VE SOSYAL BİLİMLERDE GÜNCEL GELİŞMELER SEMPOZYUMU, Ankara, Turkey, 21 - 22 December 2019, vol.2, pp.350-352
- XXIII. **Determination of Canopy Area of Fruit Trees Using Light Unmanned Aerial Vehicle(UAV) and Image Processing Methods**  
YILDIZ A. K., KELES H., ARAS S.  
1st International Congress of the Turkish Journal of Agriculture - Food Science and Technology, 8 - 10 November 2019
- XXIV. **Kirazda Meyve Çatlaması**  
ARAS S., KELES H.  
ÇUKUROVA I. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 13 - 16 December 2018, vol.1, pp.225-227
- XXV. **İLİMAN İKLİM MEYVE TÜRLERİNDE TOHUM DORMANSİSİ**  
ARAS S., KELES H.  
ÇUKUROVA I. ULUSLARARASI MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, 13 - 16 December 2018, vol.1, pp.228-231
- XXVI. **Brassinosteroid Uygulamalarının Tuz Stresi Koşullarında Çilek Fidelerinin Bazı Vejetatif Büyüme Üzerine Etkileri**  
BALCI G., KELES H., ARAS S.  
UGAP2018 - 1. ULUSLARARASI GAP TARIM VE HAYVANCILIK KONGRESİ, Şanlıurfa, Turkey, 25 - 27 April 2018, vol.1, pp.321-324
- XXVII. **Yozgat Fruit Growing: Problems and Suggestions**  
KELES H., ARAS S.  
2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018, pp.1380-1310
- XXVIII. **Yozgatta Selekte edilen Kuşburnu Genotiplerinin Bazı Fiziksel Özellikleri**  
KOÇ A., BALCI G., KELES H., ARAS S.  
3. Bozok Sempozyumu, Yozgat, Turkey, 3 - 05 May 2018, vol.1, pp.164-173
- XXIX. **Yozgat Ceviz Yetiştiriciliği, Geleceği ve Ekonomik Önemi**  
KELES H., ARAS S., KOÇ A., BALCI G., GÜNEY M.  
3. Uluslararası Bozok Sempozyumu, Yozgat, Turkey, 3 - 05 May 2018, pp.677-681

## Supported Projects

BALCI G., ARAS S., KELES H., Project Supported by Higher Education Institutions, YOZGAT KOŞULLARINDA ÖRTÜ ALTI SİSTEMLERİNİN ÇİLEK YETİŞTİRİCİLİĞİNDE VERİM VE KALİTEYE ETKİSİ, 2016 - Continues

ARAS S., Project Supported by Higher Education Institutions, Oksalik Asidin Çilek Bitkisinde Tuz Stresine Karşı Etkilerinin Belirlenmesi, 2023 - 2024

ARAS S., Project Supported by Higher Education Institutions, Kalsiyum ve Demir Eksikliğinin İki Farklı Anaca Aşılı Şeftali Bitkisine Etkileri, 2020 - 2021

Keles H., Güney M., Aras S., Project Supported by Higher Education Institutions, Hünnap (Ziziphus jujuba Mill.) Bitkisinin Yozgat Ekolojik Şartlarına Adaptasyonunun Belirlenmesi, 2019 - 2021

ARAS S., KELES H., Project Supported by Higher Education Institutions, Farklı ışık seviyelerinin kiraz bitkisinde tuz stresine karşı etkileri, 2019 - 2021

Güney M., Yaşa Kafkas N. E., Aras S., Çömlekçioğlu S., Zarıfikhosroshahı M., Project Supported by Higher Education Institutions, Bazı Alıç Genotiplerinin In vitro koşullarda Kitlesele Üretim Olanaklarının Araştırılması, 2017 - 2020

Güney M., Yaşa Kafkas N. E., Aras S., Güney M., Çömlekçioğlu S., Project Supported by Higher Education Institutions, Bazı Alıç Genotiplerinin In Vitro Koşullarda Kitlesele Üretim Olanaklarının Araştırılması, 2017 - 2019

Güney M., Kafkas S., Aras S., Keles H., Project Supported by Higher Education Institutions, Yozgat ili ve ilçelerinden Selekte edilen Ümitvar Alıç Genotiplerinin SSR Moleküler Markör Tekniğı İle Karakterizasyonu, 2017 - 2018

ARAS S., Project Supported by Higher Education Institutions, Kayısıda İn Vitro Şartlarda Bitki Rejenerasyon Protokülünün Belirlenmesi, 2013 - 2017

ARAS S., Project Supported by Higher Education Institutions, Ara Anaç Kullanımının ve Bazı Uygulamaların Quince A Anacı Üzerine Aşılı Williams Armut Çeşidi Fidanlarında Dallahna Üzerine Etkileri, 2013 - 2015

## Metrics

Publication: 60

Citation (WoS): 62

Citation (Scopus): 124

H-Index (WoS): 8

H-Index (Scopus): 6