

Prof. İBRAHİM ORTAŞ

Personal Information

Office Phone: [+90 322 338 6643](tel:+903223386643) Extension: 102

Office Phone: [+90 322 338 6310](tel:+903223386310) Extension: 2218

Fax Phone: [+90 322 338 6643](tel:+903223386643)

Email: iortas@cu.edu.tr

Web: <https://avesis.cu.edu.tr//iortas>

Address: Ç.Ü. Ziraat Fakültesi, Toprak bilimi ve Bitki Besleme Bölümü, Adana

Education Information

Doctorate, University of Reading, Department Of Soil Science, United Kingdom 1990 - 1994

Post Graduate, Cukurova University, Fen Bilimleri Enstitüsü, Toprak Bilimi, Turkey 1985 - 1987

Under Graduate, Cukurova University, Ziraat Fakültesi, Turkey 1984 - 1985

Foreign Languages

English, C1 Advanced

French, A1 Beginner

Certificates, Courses and Trainings

Quality Management, ZİDEK Akreditasyon Süreçleri Çalıştayı, ZİDEK-ZAK i, 2019

Dissertations

Doctorate, The Effect of Different Forms and Rates of Nitrogen and Different Rates of Phosphorus Fertilizer on Rhizosphere pH and P Uptake in Mycorrhizal and non-Mycorrhizal Sorghum Plants, University of Reading, Soil Science, Soil Science, 1994

Post Graduate, Jeostatistiksel Modellerin Toprak Hacim Ağırlığı ve Su İçeriği Araştırmasında Kullanım Olanaklarının İrdelenmesi, Cukurova University, Fen Bilimleri Enstitüsü, Toprak , 1987

Research Areas

Agricultural Sciences, Agriculture, Soil and Plant Feed, Soil Biology, Nutritive Principles, Complete Fertilizers, Methods of Application, Grounded Feeding Applications

Academic Titles / Tasks

Professor, Cukurova University, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme, 2002 - Continues

Associate Professor, Cukurova University, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme, 1996 - 2002

Advising Theses

ORTAŞ İ., The Effect of Different Forms and Rates of Nitrogen and Different Rates of Phosphorus Fertilizer on Rhizosphere pH and P Uptake in Mycorrhizal and non-Mycorrhizal Sorghum Plants., Post Graduate, İ.Ortaş(Student), 1994

ORTAŞ İ., Jeoistatistiksel Modellerin Toprak Hacim Ağırlığı ve Su İçeriği Araştırmasında Kullanım Olanaklarının İrdelenmesi, Post Graduate, İ.Ortaş(Student), 1987

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Role of mycorrhizae inoculations on nutrient uptake in rice grown under aerobic and anaerobic water management**
Iqbal M. T. , Ahmed I. A. M. , IŞIK M., Sultana F., ORTAŞ İ.
JOURNAL OF PLANT NUTRITION, 2020 (Journal Indexed in SCI)
- II. **Do mycorrhizae influence cover crop biomass production?**
ORTAŞ İ., Yucel C.
ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE, vol.70, no.8, pp.657-666, 2020 (Journal Indexed in SCI)
- III. **IMPACT OF Zea mays L. WASTE DERIVED BIOCHAR ON CADMIUM IMMOBILIZATION AND WHEAT PLANT GROWTH**
Jan S. U. , Jamal A., Sabar M. A. , ORTAŞ İ., IŞIK M., Aksahin V., Alghamdi H. A. , Gul S., Saqib Z., Ali M. I.
PAKISTAN JOURNAL OF AGRICULTURAL SCIENCES, vol.57, no.5, pp.1201-1210, 2020 (Journal Indexed in SCI)
- IV. **Effects of long-term phosphorus fertilizer applications on soil carbon and CO₂ flux**
ORTAŞ İ., Bykova A.
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.51, no.17, pp.2270-2279, 2020 (Journal Indexed in SCI)
- V. **Residual effects of biochar and phosphorus on growth and nutrient accumulation by maize (Zea mays L.) amended with microbes in texturally different soils**
Rafique M., ORTAŞ İ., Rizwan M., Chaudhary H. J. , Gurmani A. R. , Munis M. F. H.
CHEMOSPHERE, vol.238, 2020 (Journal Indexed in SCI)
- VI. **Potential impact of biochar types and microbial inoculants on growth of onion plant in differently textured and phosphorus limited soils**
Rafique M., ORTAŞ İ., Ahmed I. A. M. , Rizwan M., Afridi M. S. , Sultan T., Chaudhary H. J.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.247, pp.672-680, 2019 (Journal Indexed in SCI)
- VII. **Under field conditions, mycorrhizal inoculum effectiveness depends on plant species and phosphorus nutrition**
ORTAŞ İ.
JOURNAL OF PLANT NUTRITION, vol.42, no.18, pp.2349-2362, 2019 (Journal Indexed in SCI)
- VIII. **Rice straw biochar amended soil improves wheat productivity and accumulated phosphorus in grain**
Iqbal M. T. , ORTAŞ İ., AHMED I. A. M. , IŞIK M., Islam M. S.
JOURNAL OF PLANT NUTRITION, vol.42, no.14, pp.1605-1623, 2019 (Journal Indexed in SCI)
- IX. **Biochar engineered to enhance the potential performance of soil in the Mediterranean region of Turkey**
Rafique M., Chaudhary H. J. , Ahmed I. A. M. , Bykova A., ORTAŞ İ.
ARABIAN JOURNAL OF GEOSCIENCES, vol.12, no.12, 2019 (Journal Indexed in SCI)
- X. **Influence of aridity on fungal arbuscular mycorrhizal variation in five natural Algerian populations of the Atlas Pistachio (Pistacia atlantica Desf.)**
Bouabdelli Z., Belhadj S., Smail-Saadoun N., Mevy J. P. , Notonnier R., Tonetto A., ORTAŞ İ., Gauquelin T.
REVUE D ECOLOGIE-LA TERRE ET LA VIE, vol.73, no.3, pp.330-344, 2018 (Journal Indexed in SCI)
- XI. **The Effect of Mycorrhiza Inoculation and Phosphorus Application on Phosphorus Efficiency of Wheat Plants**

- ORTAŞ İ., Bykova A.
Communications in Soil Science and Plant Analysis, vol.49, no.10, pp.1199-1207, 2018 (Journal Indexed in SCI)
- XII. **Time period and nutrient contents alter the mycorrhizal responsiveness of citrus seedlings**
ORTAŞ İ., DEMİRBAŞ A., Akpınar C.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.83, no.2, pp.72-80, 2018 (Journal Indexed in SCI)
- XIII. **Nutrient uptake-modification of different plant species in Mediterranean climate by arbuscular mycorrhizal fungi**
RAFIQUE M., ORTAŞ İ.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.83, no.2, pp.65-71, 2018 (Journal Indexed in SCI)
- XIV. **Under sterilized and non-sterilized soil conditions, mycorrhizal dependency in citrus plants depends on phosphorus fertilization rather than zinc application**
ORTAŞ İ., DEMİRBAŞ A., Akpınar C.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.83, no.2, pp.81-87, 2018 (Journal Indexed in SCI)
- XV. **Influence of potassium and magnesium fertilizer application on the yield and nutrient accumulation of maize genotypes under field conditions**
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JOURNAL OF PLANT NUTRITION, vol.41, no.3, pp.330-339, 2018 (Journal Indexed in SCI)
- XVI. **Phosphorus Fertilization Impacts on Corn Yield and Soil Fertility**
ORTAŞ İ., Islam K. R.
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.49, no.14, pp.1684-1694, 2018 (Journal Indexed in SCI)
- XVII. **EXOTIC MYCORRHIZAE SPECIES INOCULATED PLANT SPECIES GROUPS HAVE DIFFERS EFFECTS ON ROOT COLONIZATION AND SPORULATION**
Akpınar C., ORTAŞ İ., DEMİRBAŞ A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, pp.3462-3468, 2018 (Journal Indexed in SCI)
- XVIII. **Growth media and mycorrhizal species effect on acclimatization and nutrient uptake of banana plantlets**
ORTAŞ İ., RAFIQUE M., Akpınar C., Kacar Y. A.
SCIENTIA HORTICULTURAE, vol.217, pp.55-60, 2017 (Journal Indexed in SCI)
- XIX. **Degradation: Biological**
ORTAŞ İ.
ENCYCLOPEDIA OF SOIL SCIENCE, VOLS I-III, 3RD EDITION, pp.553-557, 2017 (Journal Indexed in SCI)
- XX. **Enhancement of maize plant growth with inoculation of phosphate-solubilizing bacteria and biochar amendment in soil**
Rafique M., Sultan T., ORTAŞ İ., Chaudhary H. J.
SOIL SCIENCE AND PLANT NUTRITION, vol.63, no.5, pp.460-469, 2017 (Journal Indexed in SCI)
- XXI. **Mycorrhizae: Soil Quality**
ORTAŞ İ.
ENCYCLOPEDIA OF SOIL SCIENCE, VOLS I-III, 3RD EDITION, pp.1505-1510, 2017 (Journal Indexed in SCI)
- XXII. **Carbon Sequestration and Mycorrhizae in Turkish Soils**
ORTAŞ İ., Lal R., Kapur S.
CARBON MANAGEMENT, TECHNOLOGIES, AND TRENDS IN MEDITERRANEAN ECOSYSTEMS, vol.15, pp.139-149, 2017 (Journal Indexed in SCI)
- XXIII. **Precipitation as the most affecting factor on soil-plant environment conditions affects the mycorrhizal spore numbers in three different ecological zones in Turkey**
ORTAŞ İ., Coskan A.
ACTA AGRICULTURAE SCANDINAVICA SECTION B-SOIL AND PLANT SCIENCE, vol.66, no.4, pp.369-378, 2016 (Journal Indexed in SCI)
- XXIV. **Sour Orange (Citrus Aurantium L.) Growth is Strongly Mycorrhizal Dependent in Terms of Phosphorus (P) Nutrition Rather than Zinc (Zn)**
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- XXV. **Arbuscular mycorrhizal fungal community of wheat under long-term mineral and organic amendments in semi-arid Mediterranean Turkey**
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ARID LAND RESEARCH AND MANAGEMENT, vol.30, no.4, pp.479-489, 2016 (Journal Indexed in SCI)
- XXVI. **Comparative analyses of Turkey agricultural soils: Potential communities of indigenous and exotic mycorrhiza species' effect on maize (*Zea mays* L.) growth and nutrient uptakes**
Ortas I.
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- XXVII. **Changes in Soil Ergosterol Content, Glomalin-Related Soil Protein, and Phospholipid Fatty Acid Profile as Affected by Long-Term Organic and Chemical Fertilization Practices in Mediterranean Turkey**
Turgay O. C. , Buchan D., Moeskops B., De Gusseme B., ORTAŞ İ., De Neve S.
ARID LAND RESEARCH AND MANAGEMENT, vol.29, no.2, pp.180-198, 2015 (Journal Indexed in SCI)
- XXVIII. **Effects on growth of persimmon (*Diospyros virginiana*) rootstock of arbuscular mycorrhizal fungi species**
Incesu M., YEŞİLOĞLU T., ÇİMEN B., YILMAZ B., Akpınar C., ORTAŞ İ.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.39, no.1, pp.117-122, 2015 (Journal Indexed in SCI)
- XXIX. **The effects of single species, dual species and indigenous mycorrhiza inoculation on citrus growth and nutrient uptake**
ORTAŞ İ., Ustuner O.
EUROPEAN JOURNAL OF SOIL BIOLOGY, vol.63, pp.64-69, 2014 (Journal Indexed in SCI)
- XXX. **Determination of different growth media and various mycorrhizae species on citrus growth and nutrient uptake**
ORTAŞ İ., Ustuner O.
SCIENTIA HORTICULTURAE, vol.166, pp.84-90, 2014 (Journal Indexed in SCI)
- XXXI. **Irrigation scheduling of grapefruit trees in a Mediterranean environment throughout evaluation of plant water status and evapotranspiration**
Ünlü M., Kanber R., Koc D. L. , Özekici B., Kekeç U., Yeşiloğlu T., Ortaş İ., Unlu F., Kapur B., Tekin S., et al.
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- XXXII. **EFFECT OF PYRITE APPLICATION ON WHEAT-MAIZE GROWTH AND NUTRIENT UPTAKE UNDER DIVERSE SOIL CONDITIONS**
ORTAŞ İ., Kaya Z., Ercan S.
JOURNAL OF PLANT NUTRITION, vol.38, no.2, pp.295-309, 2014 (Journal Indexed in SCI)
- XXXIII. **Selection of Arbuscular Mycorrhizal Fungi Species for Tomato Seedling Growth, Mycorrhizal Dependency and Nutrient Uptake**
ORTAŞ İ., SARI N., Akpınar C., YETİŞİR H.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.78, no.5, pp.209-218, 2013 (Journal Indexed in SCI)
- XXXIV. **Changes in mycorrhizal spore and root colonization of coastal dune vegetation of the Seyhan Delta in the postcultivation phase**
Aytok O., YILMAZ K. T. , ORTAŞ İ., Cakan H.
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- XXXV. **Long-Term Impacts of Organic and Inorganic Fertilizers on Carbon Sequestration in Aggregates of an Entisol in Mediterranean Turkey**
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- XXXVI. **The effects of mycorrhizal species and different doses of phosphorus on pepper (*Capsicum annum* L.) yield and development under field conditions**
Almaca A., ALMACA N. D. , SÖYLEMEZ S., ORTAŞ İ.
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- XXXVII. **Long-Term Phosphorus Application Impacts on Aggregate-Associated Carbon and Nitrogen Sequestration in a Vertisol in the Mediterranean Turkey**
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- XXXVIII. **The effect of mycorrhizal fungal inoculation on plant yield, nutrient uptake and inoculation effectiveness under long-term field conditions**
Ortas I.
FIELD CROPS RESEARCH, vol.125, pp.35-48, 2012 (Journal Indexed in SCI)
- XXXIX. **DO MAIZE AND PEPPER PLANTS DEPEND ON MYCORRHIZAE IN TERMS OF PHOSPHORUS AND ZINC UPTAKE?**
Ortas I.
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- XL. **Effects of arbuscular mycorrhizal inoculation on biochemical parameters in Capsicum annum grown under long term salt stress**
Cekic F. O. , Unyayar S., ORTAŞ İ.
TURKISH JOURNAL OF BOTANY, vol.36, no.1, pp.63-72, 2012 (Journal Indexed in SCI)
- XLII. **Screening Mycorrhizae Species for Increased Growth and P and Zn Uptake in Eggplant (Solanum melongena L.) Grown under Greenhouse Conditions**
ORTAŞ İ., SARI N., Akpınar C., YETİŞİR H.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.76, no.3, pp.116-123, 2011 (Journal Indexed in SCI)
- XLII. **Screening mycorrhiza species for plant growth, P and Zn uptake in pepper seedling grown under greenhouse conditions**
ORTAŞ İ., Sari N., Akpınar C., Yetisir H.
SCIENTIA HORTICULTURAE, vol.128, no.2, pp.92-98, 2011 (Journal Indexed in SCI)
- XLIII. **RESPONSE OF MAIZE GENOTYPES TO SEVERAL MYCORRHIZAL INOCULUMS IN TERMS OF PLANT GROWTH, NUTRIENT UPTAKE AND SPORE PRODUCTION**
ORTAŞ İ., Akpınar C.
JOURNAL OF PLANT NUTRITION, vol.34, no.7, pp.970-987, 2011 (Journal Indexed in SCI)
- XLIV. **Reconstructing the Past by Regenerating Biodiversity: A Treatise on Weed Contribution to Soil Quality at a Post-cultivation Succession**
Celik I., Yilmaz K. T. , Eswaran H., Mermut A., Dingil M., Kaya Z., Demirbas A., Aksit I., Ortas I., Gok M., et al.
SUSTAINABLE LAND MANAGEMENT: LEARNING FROM THE PAST FOR THE FUTURE, pp.363-378, 2011 (Journal Indexed in SCI)
- XLV. **Effect of Inoculation with Mycorrhizal Fungi on Growth and Nutrient Uptake of Grapevine Genotypes (Vitis spp.)**
Ozdemir G., AKPINAR C., Sabir A., BILIR H., TANGOLAR S., ORTAŞ İ.
EUROPEAN JOURNAL OF HORTICULTURAL SCIENCE, vol.75, no.3, pp.103-110, 2010 (Journal Indexed in SCI)
- XLVI. **The effect of mycorrhiza in nutrient uptake and biomass of cherry rootstocks during acclimatization**
Aka-Kacar Y., Akpınar C., Agar A., Yalcin-Mendi Y., Serce S., ORTAŞ İ.
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.15, no.3, pp.5246-5252, 2010 (Journal Indexed in SCI)
- XLVII. **Growth response of maize plants (Zea mays L.) to wheat and lentil pre-cropping and to indigenous mycorrhizae in field soil**
Almaca A., ORTAŞ İ.
SPANISH JOURNAL OF AGRICULTURAL RESEARCH, vol.8, 2010 (Journal Indexed in SCI)
- XLVIII. **Effect of mycorrhiza application on plant growth and nutrient uptake in cucumber production under field conditions**
Ortas I.
SPANISH JOURNAL OF AGRICULTURAL RESEARCH, vol.8, 2010 (Journal Indexed in SCI)
- XLIX. **The effect of mycorrhiza in nutrient uptake and biomass of cherry rootstocks during acclimatisation**
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- L. **Various Mycorrhizal Fungi Enhance Dry Weights, P and Zn Uptake of Four Pistacia Species**
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- LI. **Screening of wild emmer wheat accessions (*Triticum turgidum* subsp *dicoccoides*) for mycorrhizal dependency**
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- LII. **Responses of soilless grown tomato plants to arbuscular mycorrhizal fungal (*Glomus fasciculatum*) colonization in re-cycling and open systems**
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- LIII. **Response of kidney bean to arbuscular mycorrhizal inoculation and mycorrhizal dependency in P and Zn deficient soils**
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- LIV. **Effect of ammonium and nitrate on indigenous mycorrhizal infection, rhizosphere pH change, and phosphorus uptake by sorghum**
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- LV. **Effects of compost, mycorrhiza, manure and fertilizer on some physical properties of a Chromoxerert soil**
Çelik İ., Ortas I., Kilic S.
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- LVI. **Effect of mycorrhizae and pH change at the root-soil interface on phosphorus uptake by Sorghum using a rhizocylinder technique**
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- LVII. **Effect of selected mycorrhizal inoculation on phosphorus sustainability in sterile and non-sterile soils in the Harran Plain in South Anatolia**
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- LVIII. **Effect of mycorrhizae inoculation on plant growth, yield, and phosphorus uptake in garlic under field conditions**
Sari N., Ortas I., Yetisir H.
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- LIX. **Various mycorrhizal fungi propagated on different hosts have different effect on citrus growth and nutrient uptake**
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- LX. **Mycorrhizal dependency of sour orange in relation to phosphorus and zinc nutrition**
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- LXI. **Effect of pH on amount of phosphorus extracted by 10 mM calcium chloride from three rothamsted soils**
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- LXII. **Determination of potassium and magnesium status of soils using different soil extraction procedures in the upper part of Mesopotamia (in the Harran Plain)**
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- LXIII. **Reactions of some maize hybrids to different nitrogen rates Bazi melez misir çeşitlerinin artan azot dozlarına tepkilerinin saptanması**
Çullu M. A. , ÜLGER A. C. , Güzel N., ORTAŞ İ.
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- LXIV. **Investigation on the possibilities of utilization of geostatistical technique in soil moisture content and bulk density determinations Bir Jeostatistiksel Tekniğin Toprak Hacim Ağırlığı ve Nem içeriği Araştırmalarında Kullanım Olanaklarının irdelenmesi**
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- LXV. **Determination of the extent of rhizosphere soil**
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- LXVI. **The influence of use of different rates of mycorrhizal inoculum on root infection, plant growth, and phosphorus uptake**
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- LXVII. **Enhanced uptake of phosphorus by mycorrhizal sorghum plants as influenced by forms of nitrogen**
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- LXVIII. **DETERMINATION OF NUMBER OF SUBSAMPLES FROM A SAMPLING UNIT FOR NO₃-N MEASUREMENTS IN PROFILES OF VARIOUS SOIL SERIES IN SOUTHERN TURKEY**
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- I. **Farklı Mikoriza Türleri, Kompost ve Fosfat Kayacı Uygulamalarının Sorgum Bitkisinin Gelişimine Etkileri**
AKPINAR Ç., DEMİRBAŞ A., ORTAŞ İ.
Türk Tarım - Gıda Bilim ve Teknoloji Dergisi, vol.8, no.12, pp.2583-2589, 2020 (Other Refereed National Journals)
- II. **Effect of Organic and Inorganic Fertilizer Applications on Buckwheat Yield and Micro Element Nutrition**
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- III. **Uzun Süreli Farklı Dozlarda Fosfor Uygulamalarının Mısır Bitkisinin Fosfor Kullanım Etkinliğinin Belirlenmesi**
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- IV. **ORGANİK VE İNORGANİK GÜBRE UYGULAMALARININ ATMOSFEREKARBON SALINIMI VE TOPRAKTA TUTULAN ORGANİK KARBONFRAKSİYONLARI ÜZERİNE ETKİLERİ**
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Ç.Ü Fen ve Mühendislik Bilimleri Dergisi, vol.39, no.3, pp.98-108, 2020 (Other Refereed National Journals)
- V. **Chemical fertilization and organic amendments impact on soil biological, chemical properties and carbon, nitrogen lability**
YÜCEL D., YÜCEL C., ORTAŞ İ.
Fresenius Environmental Bulletin, vol.29, no.9, pp.7488-7501, 2020 (Refereed Journals of Other Institutions)
- VI. **Mikoriza Aşılmasının Doku Kültürü Ortamında Yetiştirilen Muz Bitkisinin Büyümesi ve Besin Elementi Alımına Olan Etkisi**
AKPINAR Ç., ORTAŞ İ.

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- VII. **THE EFFECTS OF THE MYCORRHIZA ON PLANT GROWTH DURING ACCLIMATIZATION OF SOME IN VITRO GROWN SWEET CHERRY ROOTSTOCKS**
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- VIII. **Root traits and carbon input by sweet sorghum genotypes differs in two climatic conditions.**
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Activities in Scientific Journals

- Journal of Agricultural Sciences, Publication Committee Member, 2016 - Continues
- Tarım dünyası, Committee Member, 2015 - Continues
- Acta Agriculturae Scandinavica, Section B - Plant Soil Science, Committee Member, 2008 - Continues

Memberships / Tasks in Scientific Organizations

- International Mycorrhizae Association, Member, 2008 - Continues
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Scientific Refereeing

Annals of Applied Biology , SCI Journal, November 2015
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Edit Congress and Symposium Activities

Climate Friendly Agriculture and Innovative Methodologies, Attendee, İzmir, Turkey, 2017
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Awards

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