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Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Toprak Bilimi Ve Bitki Besleme (Dr), Turkey 2019 - 2020

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Toprak Bilimi Ve Bitki Besleme (YI) (Tezli), Turkey 2016 - 2019

Undergraduate, Ondokuz Mayıs University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme Bölümü, Turkey 2011 - 2016

Dissertations

Postgraduate, Ordu ve giresun yöresindeki fındık bahçesi topraklarının biyolojik özellikleri ve bunların diğer toprak özellikleriyle ilişkileri, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Toprak Bilimi Ve Bitki Besleme (YI) (Tezli), 2019

Research Areas

Soil Biology, Nutritive Principles, Complete Fertilizers, Methods of Application, Soil Fertility, Acidity, Alkanility

Academic Titles / Tasks

Research Assistant, Ondokuz Mayıs University, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme Bölümü, 2019 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Role of Hazelnut Husk Compost and Phosphate Solubilizing Bacteria in Improving Productivity and Quality Parameters of Wheat (*Triticum aestivum* L.) and Their Effects on Some Soil Biological Properties**
Rahman M. M., Maqbool N., Ay A., Guelser C., Kızılkaya R.
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, 2024 (SCI-Expanded)
- II. **Vermicompost Rate Effects on Soil Fertility and Morpho-Physio-Biochemical Traits of Lettuce**
Toor M. D., Ay A., Ullah I., Demirkaya S., Kızılkaya R., Mihoub A., Zia A., Jamal A., Ghfar A. A., Di Serio A., et al.
HORTICULTURAE, vol.10, no.4, 2024 (SCI-Expanded)
- III. **Soil quality assessment based on hybrid computational approach with spatial multi-criteria analysis and geographical information system for sustainable tea cultivation**
Saygin F., Savsatli Y., Dengiz O., Yazici K., Namli A., Karatas A., Senol N. D., AKÇA M. O., Pacci S., Karapicak B., et al.

JOURNAL OF AGRICULTURAL SCIENCE, vol.161, no.2, pp.187-204, 2023 (SCI-Expanded)

- IV. **An assessment of pasture soils quality based on multi-indicator weighting approaches in semi-arid ecosystem**
Karaca S., Dengiz O., Turan I. D., ÖZKAN B., DEDEOĞLU M., Gülser F., Sargın B., Demirkaya S., Ay A.
ECOLOGICAL INDICATORS, 2021 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluation of the Possibilities of Using Green Manure as Based Fertilizer**
ISMAYILZADA B., Çilingir Tütüncü A., Ay A., ÖZER H.
Anadolu Tarım Bilimleri Dergisi, vol.39, no.1, pp.45-54, 2024 (Peer-Reviewed Journal)
- II. **Soil fertility status, productivity challenges, and solutions in rice farming landscapes of Azerbaijan**
İslamzade T., Baxishov D., Guliyev A., Kızılkaya R., İslamzade R., Ay A., Huseynova S., Mammadova M.
Eurasian Journal of Soil Science, vol.13, no.1, pp.70-78, 2024 (Scopus)
- III. **The Effects of Organic Fertilization on The Quality of Eggplant Seedlings**
METE K., ÇİLİNGİR TÜTÜNCÜ A., AY A., ÖZER H.
Black Sea Journal of Agriculture, vol.6, no.6, pp.706-709, 2023 (Peer-Reviewed Journal)
- IV. **Farklı Anaçlar Üzerine Aşıl原因an Depar F1 Domates Çeşidinin Sera ve Açıkta Performanslarının Değerlendirilmesi**
ÇİLİNGİR TÜTÜNCÜ A., SAKA A. K., AY A., ÖZBAKIR ÖZER M., ÖZER H.
Anadolu Tarım Bilimleri Dergisi, vol.38, no.1, pp.209-220, 2023 (Peer-Reviewed Journal)
- V. **Ordu ve Giresun illerindeki bazı fındık bahçesi topraklarının bitki besin elementi kapsamı**
Ay A., Kızılkaya R.
Toprak Bilimi ve Bitki Besleme Dergisi, vol.10, no.2, pp.186-192, 2022 (Peer-Reviewed Journal)
- VI. **The effects of two Fe-EDDHA chelated fertilizers on dry matter production and Fe uptake of tomato seedlings and Fe forms of a calcareous soil**
Ay A., Demirkaya S., Kızılkaya R., Gülser C.
Eurasian Journal of Soil Science, vol.11, no.3, pp.259-265, 2022 (Scopus)
- VII. **Aşılı Domates Fidesi Üretiminin Domates Bitkilerinin Kalitesine Etkileri**
Tezcan O. S. A., ÇİLİNGİR TÜTÜNCÜ A., AY A., ÖZER H.
Uluslararası Tarım ve Yaban Hayatı Bilimleri Dergisi, vol.8, no.3, pp.423-429, 2022 (Peer-Reviewed Journal)
- VIII. **Relationships Between Soil Properties and Biological Properties of Hazelnut Orchards in Ordu and Giresun Provinces**
AY A., KIZILKAYA R.
Toprak Bilimi ve Bitki Besleme Dergisi, vol.9, no.1, pp.71-78, 2021 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **DETERMINATION OF THE PHYTOTOXIC EFFECT OF FISH PROTEIN HYDROLYZATE ON CUT ROSE GROWING**
TÜTÜNCÜ M., Andıç M., AY A., DEMİRKAYA S., KORKMAZ K., KIZILKAYA R.
12th International Molecular Biology and Biotechnology Congress, Kayseri, Turkey, 13 - 15 December 2023, pp.18
- II. **USE OF ANCHOVY WASTE PROTEIN HYDROLYSATES AS PLANT BIOSIMULANTS IN CUT FLOWER GROWING**
Andıç M., TÜTÜNCÜ M., AY A., DEMİRKAYA S., KORKMAZ K., KIZILKAYA R.
XIV International Scientific Agriculture Symposium "AGROSYM 2023", Jahorina, Bosnia And Herzegovina, 5 - 08 October 2023, pp.519
- III. **Effects of pyrolysis temperature and time on biochar production produces**
DEMİRKAYA S., AY A.

International Soil Science Symposium on "SOIL SCIENCE & PLANT NUTRITION" 2 – 3 December 2022 / Samsun, Türkiye, Samsun, Turkey, 2 - 03 December 2022, pp.249-253

- IV. **Effect of different salt contents in irrigation water on some growth parameters of sorghum plant**
ÖZTÜRK E., DEMİRKAYA S., AY A., GÜLSER C.
International Soil Science Symposium on "SOIL SCIENCE & PLANT NUTRITION" 2 – 3 December 2022 / Samsun, Türkiye, Samsun, Turkey, 2 - 03 December 2022
- V. **Importance of silicon in agriculture**
Aydın H., KIZILKAYA R., AY A.
International Soil Science Symposium on Soil Science & Plant Nutrition (7th International Scientific Meeting), Samsun, Turkey, 2 - 03 December 2022, pp.254-258
- VI. **Composting process of organic materials**
AY A., DEMİRKAYA S.
International Soil Science Symposium on "SOIL SCIENCE & PLANT NUTRITION" 2 – 3 December 2022 / Samsun, Türkiye, Samsun, Turkey, 2 - 03 December 2022
- VII. **The effect of two iron fertilizers on DTPA extractable micronutrient contents of a calcareous soil**
AY A., KIZILKAYA R., DEMİRKAYA S., GÜLSER C.
International Soil Science Symposium on "SOIL SCIENCE & PLANT NUTRITION", Samsun, Turkey, 18 - 19 December 2021, vol.1, pp.239-246
- VIII. **The effect of two iron fertilizers on DTPA extractable micronutrient contents of a calcareous soil**
AY A., KIZILKAYA R., DEMİRKAYA S., GÜLSER C.
International Soil Science Symposium on Soil Science and Plant Nutrition, Samsun, Turkey, 18 - 19 December 2021
- IX. **The effect of iron enriched acidified and non-acidified biochars on DTPA extractable iron content of a calcareous soil**
DEMİRKAYA S., GÜLSER C., AY A.
International Soil Science Symposium on Soil Science and Plant Nutrition, Samsun, Turkey, 18 - 19 December 2021
- X. **Total zinc contents of composted and vermicomposted olive pomace waste with manure**
KARAPIÇAK B., KIZILKAYA R., GÜLSER C., AY A.
INTERNATIONAL SOIL SCIENCE SYMPOSIUM on SOIL SCIENCE & PLANT NUTRITION (6th International Scientific Meeting), Samsun, Turkey, 18 December 2021, pp.57-61
- XI. **CHANGES IN SOME SOIL PROPERTIES OF HAZELNUT ORCHARD SOILS WITH FERTILIZATION**
KIZILKAYA R., GÜLSER C., GÖKÇE C., AY A.
10th International Soil Congress 2019 "Successful Transformation toward Land Degradation Neutrality: Future Perspective", 17 - 19 June 2019
- XII. **KARADENİZ BÖLGESİNDE FINDIK YETİŞTİRİLEN TOPRAKLARIN BAZI FİZİKOKİMYASAL ÖZELLİKLERİ**
GÜLSER C., KIZILKAYA R., AY A., GÖKÇE C.
The 2nd International UNIDOKAP Black Sea Symposium on BIODIVERSITY, Samsun, Turkey, 28 - 30 November 2018

Supported Projects

Gülser C., Ay A., Yıldırım E., Tunalı B., Kızılkaya R., Kutluk Yılmaz N. D., Demirkaya S., Project Supported by Higher Education Institutions, Vermikompost ve biyoçar uygulamalarının asit reaksiyonlu toprakta abiyotik ve biyotik stres faktörleri altındaki biber bitkisinin gelişimine etkisi, 2024 - Continues

Tütüncü M., Kızılkaya R., Korkmaz K., TUBITAK Project, Use of Anchovy Waste Hydrolysates as Bioactivators in Cut Ornamental Plants Cultivation, 2022 - 2025