



# SERDAR BİLEN

## PROF.

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABD-2455-2021

ScopusID: 12772854000

Yoksis Researcher ID: 41742



## Biography

He was born in 1966 in Bayburt. After completing his primary and secondary education at the Rüştü Paşa Pasha Primary School and completing his high school education at Gazi Ahmet Muhtar Paşa Middle School and Erzurum High School, he completed his higher education at Atatürk University, Faculty of Agriculture, Department of Soil Science between 1985-1989.

After completing his military service as a reserve officer between 1990-1991, he graduated from Department of Soil Fertility in 1991. Dr. Yildirim SEZEN has started his master's degree. He completed his master's degree on Soil Chemistry in May 1994.

In September of the same year, he passed the Ph.D. exam and in October he was awarded the Research Assistant Exam and joined the department he graduated as a Research Assistant.

In 1994, he completed a one year English course given by the Graduate School of Natural and Applied Sciences. In 1995, Prof. Dr. Dr. Dr. Tülay Kızıoğlu started her PhD studies on Soil Microbiology in consultation with ALGAN.

In January 2003, he completed his Ph.D. Assoc. Dr. She's in her squad.

In 2008, with the scholarship of TUBITAK, he participated in the Effects of Soil Treatment and Plant Diversity on Greenhouse Gases I project in Ohio State University for 2.5 years. After returning in 2011, he applied for the Associate Professorship Exam in April. In October 2012, he was appointed as Associate Professor by YÖK.

In 2018 he was promoted to Professor title.

He is still a lecturer at the Department of Soil Science in Atatürk University.

## Learning Knowledge

Doctorate  
1994 - 2003

Ataturk University, Fen Bilimleri Enstitüsü, Toprak, Turkey

Postgraduate  
1991 - 1994

Ataturk University, Fen Bilimleri Enstitüsü, Toprak, Turkey

Undergraduate

1984 - 1989

Ataturk University, Ziraat Fakültesi, Toprak, Turkey

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Education Management and Planning, Erasmus KA205 Eğiticinin Eğitimi- Atatürk Üniversitesi, Atatürk Üniversitesi, Dış İlişkiler Ofisi, 2018

Education Management and Planning, Arazi Kullanımı Çalıştayını, Atatürk Üniversitesi,, 2018

Other, KADIN İSTİHDAMININ ÖNÜNDEKİ ENGELLER VE ÇÖZÜM ÖNERİLERİ ÇALIŞTAYI: ERZURUM ÖRNEĞİ, Atatürk Üniversitesi,, 2017

Other, Graduate Student Networking Session Mentor, SSSA Graduate Student Networking Session Mentor, 2017

Education Management and Planning, Bruker ICP-MS Aurora M-90 Kursu, Eti Maden İşletmeleri Genel Müdürlüğü, 2015

Health&Medicine, Adult Basic and Literacy Education Medical Readiness Course, Wayne County Joint Vocational School District, USA, 2010

Foreign Language, English for Speakers of Other Languages Course at Adult Basic and Literacy Education, ABLE Adult Basic and Literacy Education, Columbus USA, 2008

Health&Medicine, Sağlıklı Gelecek İçin Kadın ve Çocuklarda Hijyen (SA-GE-HİP) Projesi, Atatürk Üniversitesi, Hemşirelik Yüksek Okulu, 2006

Education Management and Planning, Türkiye Sualtı Sporları, Cankurtarma,Sukayağı ve Paletli Yüzme Fed. III. Yıldız, Başbakanlık Gençlik ve Spor Genel Müdürlüğü, 2005

Other, Türkiye Sualtı Sporları, Cankurtarma,Sukayağı ve Paletli Yüzme Fed. II. Yıldız, Başbakanlık Gençlik ve Spor Genel Müdürlüğü, 2004

Education Management and Planning, Natural Resources Management for Sustainable Development, Atatürk Üniversitesi, Ziraat Fakültesi, 2004

Education Management and Planning, Türkiye Sualtı Sporları, Cankurtarma,Sukayağı ve Paletli Yüzme Fed. I. Yıldız, Başbakanlık Gençlik ve Spor Genel Müdürlüğü, 2003

Education Management and Planning, Mycorrhizal Fungi in Plant and Soil, Çukurova Üniversitesi, Ziraat Fakültesi, Toprak Bölümü, 2001

Education Management and Planning, Managing Arbuscular Mycorrhizal Fungi for Improving Soil Quality, Çukurova Üniversitesi, Ziraat Fakültesi, Toprak Bölümü, 2001

Education Management and Planning, Doğal Bir Gübre Olan Mikorrizanın Tarımda Kullanılması, Çukurova Üniversitesi, Ziraat Fakültesi, Toprak Bölümü, 1998

## Dissertations

Doctorate, Farklı Yaşlardaki Rhizobium Kültürleri Aşılamanın Fasulye Bitkisinin Gelişimi, Besin Elementi İçerikleri, Nodülasyon ve N<sub>2</sub> - Fiksasyonuna Etkileri, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Toprak, 2003

Postgraduate, Toprağa Uygulanan Değişik Tuzların Farklı Konsantrasyonlarının Tamamlayıcı İyonlar Üzerine Etkileri , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Toprak, 1994

## Academic Titles / Tasks

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Professor  
2018 - Continues

Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme

Associate Professor  
2012 - 2018

Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme

Assistant Professor  
2008 - 2011

Ohio State University

Research Assistant PhD  
2006 - 2011

Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme

Research Assistant  
1994 - 2006

Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme

## Supported Projects

1. Örs Cırık S., Yıldırım E., Ekinci M., Bilen S., Horizon Europe Project, Doğadan Sofraya Bilim (Sci- NURTURE), 2022 - 2023
2. BEKTAŞ M., YILDIRIM E., ERMAN Ö. K., BİLEN S., TEPE Y., Project Supported by Higher Education Institutions, Ardahan Kars ve Iğdır İllerindeki Sucul Coleoptera ve Sucul Hemiptera faunasının belirlenmesi sucul ekosistemlerde yaşayan Coleoptera Helophoridae Hydrochiidae Hydrophilidae ve Dytiscidae ile bunların yaşam ortamlarındaki su ve toprak ağır metal birikimlerinin saptanması tatlı su balıkları ve kurbağalarının endohelminth parazitlerinin araştırılması, 2019 - 2021
3. BİLEN S., OKYAY KAYA L., BARİK K., CANBOLAT M. Y., Project Supported by Higher Education Institutions, TOPRAKTAN İZOLE EDİLEN BAKTERİ İZOLATLARININ AĞIR METAL ABSORBSİYON KAPASİTELERİNİN BELİRLENMESİ, 2018 - 2020
4. CANBOLAT M. Y., ÖZGÜL M., BİLEN S., BARİK K., AKSAKAL E. L., ÖZTAŞ T., YILDIZ N., AYDIN A., Project Supported by Higher Education Institutions, TOPRAK BİLİMİ VE BİTKİ BESLEME BÖLÜMÜ LABORATUVARLARINDA PAYDAŞLARIMIZA YÖNELİK YÜRÜTÜLEN ANALİZLERİN SÜRDÜRÜLEBİLİRLİĞİ İÇİN MEVCUT MAKİNE VE TEÇHİZATIN BAKIM ONARIMI İLE TÜKETİM MALZEMELERİNİN TEMİNİ VE İYİLEŞTİRİLMESİ, 2017 - 2020
5. CANBOLAT M. Y., ÖZGÜL M., AYDIN A., YILDIZ N., BARİK K., AKSAKAL E. L., HACIMUFTUOĞLU F., YAĞANOĞLU E., BİLEN S., ÖZTAŞ T., Project Supported by Higher Education Institutions, ERZURUM İLİ ARAZİ KULLANIM ÇALIŞTAYI, 2018 - 2019
6. CANBOLAT M. Y., ÖZTAŞ T., YILDIZ N., BİLEN S., ÖZGÜL M., BARİK K., AKSAKAL E. L., AYDIN A., Project Supported by Higher Education Institutions, TOPRAK BİLİMİ VE BİTKİ BESLEME BÖLÜMÜ LABORATUVARLARINDA YÜRÜTÜLEN ÇALIŞMALARIN KALİTELİ OLARAK SONUÇLANABİLİRLİĞİNİ DESTEKLEYEN MAKİNE VE TEÇHİZATIN ÖNEMİ VE SAĞLANABİLİRLİĞİ, 2017 - 2019
7. BİLEN S., CANBOLAT M. Y., BARİK K., Project Supported by Higher Education Institutions, TOZ DETERJAN ATIKLARININ TARIM TOPRAKLARININ BİYOLOJİK ÖZELLİKLERİ ÜZERİNE ETKİLERİ, 2015 - 2017
8. BİLEN S., Project Supported by Higher Education Institutions, ISO 2010 KALİTE STANDARDİZASYON ÇALIŞMALARINI ÇERÇEVESİNDE TOPRAK BİLİMİ VE BİTKİ BESLEME BÖLÜM LABORATUVARLARININ İYİLEŞTİRİLMESİ VE MODERNİZASYONU, 2013 - 2016
9. BİLEN S., Project Supported by Higher Education Institutions, AZOTLU MİNERAL GÜBRE VE AZOTOBACTER SP BAKTERİ UYGULAMASININ FINDIK VERİMİ ÜZERİNE ETKİLERİ, 2013 - 2014
10. BİLEN S., Project Supported by Higher Education Institutions, BİTKİ UÇUCU YAĞLARININ TOPRAK VE BİTKİ ENZİMLERİ ÜZERİNE ETKİLERİ VE MİKROBİYAL GÜBRELEMEDE KULLANILMA OLANAKLARI, 2012 - 2014

11. BİLEN S., Project Supported by Higher Education Institutions, FERTİGASYON YÖNTEMİYLE SULAMANIN, AZOT GÜBRELEMESİNİN VE AZOT BAKTERİSİ İLE AŞILAMANIN MISIRIN VERİM UNSURLARI ÜZERİNE ETKİLERİ, 2012 - 2014
12. BİLEN S., Project Supported by Higher Education Institutions, BİTKİ UÇUCU YAĞLARININ VE EKSTRAKTLARININ BAKTERİ AŞILANMIŞ VE AŞILANMAMIŞ TOPRAKLARIN FİZİKSEL, KİMYASAL VE MİKROBİYAL ÖZELLİKLERİ ÜZERİNE ETKİLERİ, 2011 - 2013
13. BİLEN S., Project Supported by Higher Education Institutions, TÜRKİYE YÜKSEKÖĞRETİM YETERLİLİKLER ÇERÇEVESİNDE, TOPRAK BİLİMİ VE BİTKİ BESLENME LİSANS EĞİTİMİ YETERLİLİKLERİNİN (BİLGİ, BECERİ VE YETKİNLİK) KAZANIMINA FİZİKİ ALTYAPIDAKİ İYİLEŞTİRMELERİN ETKİSİ, 2011 - 2012
14. Bilen S., Dick W. A., Universities of Other Countries Supported Project, Greenhouse gas budget and methane dynamics in a no tillage chronosequence Research Project Indiana University and Ohio State University United States Department Of Agriculture Cooperative State Research Education And Extension Service USA OMB Approved No 0524 0039 Research Assistant 2009 2012 3 years Bu projede görev almak için 6 ay süre ile TÜBİTAK tarafından USA da 6 ay süre ile görevlendirildim, 2008 - 2011

## Scholarships

2219 Yurt Dışı Doktora Sonrası Burs, TÜBİTAK, 2009 - 2010

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Atatürk Üniversitesi, January, 2024

Associate Professor Exam, Associate Professor Exam, Karadeniz Tarımsal Araştırma Enstitüsü, December, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Iğdır Üniversitesi, November, 2023

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, May, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2022

Doctorate, Doctorate, Université Mohammed V - Agdal, September, 2022

Doctorate, Doctorate, Université Mohammed V - Agdal, July, 2022

Competence In Art Monitoring Committee Member, Competence In Art Monitoring Committee Member, Atatürk Üniversitesi, June, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Université Mohammed V - Agdal, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Université Mohammed V - Agdal, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, December, 2021

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2021

Doctorate, Doctorate, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021  
Doctorate, Doctorate, Atatürk Üniversitesi, May, 2021  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Çanakkale Onsekiz Mart Üniversitesi, February, 2021  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bolu Abant İzzet Baysal Üniversitesi, February, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, June, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, April, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, December, 2019  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2019

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

- 1. Plant growth-promoting bacteria isolated from earthworms enhance spinach growth and its phytoremediation potential in metal-contaminated soils**  
Houida S., Yakkou L., Kaya L. O., Bilen S., Raouane M., El Harti A., Amghar S.  
INTERNATIONAL MICROBIOLOGY, vol.27, no.2, pp.545-558, 2024 (SCI-Expanded)
- 2. Unveiling resilience: coelomic fluid bacteria's impact on plant metabolism and abiotic stress tolerance**  
Yakkou L., Houida S., El Baaboua A., BİLEN S., Chelkha M., Okyay Kaya L., Aasfar A., Ameen F., Ahmad Bhat S., Raouane M., et al.  
Plant Signaling and Behavior, vol.19, no.1, 2024 (SCI-Expanded)
- 3. Earthworm Aporetodea mollerii (oligochaeta)'s coelomic fluid-associated bacteria modify soil biochemical properties and improve maize (Zea mays L.) plant growth under abiotic stress conditions**  
Yakkou L., Houida S., Bilen S., Kaya L. O., Raouane M., Amghar S., El Harti A.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, pp.11719-11739, 2023 (SCI-Expanded)
- 4. Carbon Footprint Management by Agricultural Practices**  
Ozlu E., Arriaga F. J., Bilen S., Gozukara G., Babur E.  
BIOLOGY-BASEL, vol.11, no.10, 2022 (SCI-Expanded)
- 5. Field-Scale Evaluation of the Soil Quality Index as Influenced by Dairy Manure and Inorganic Fertilizers**  
Ozlu E., Gözükar G., Acar M., Bilen S., Babur E.  
SUSTAINABILITY, vol.14, no.13, 2022 (SCI-Expanded)
- 6. Biopriming of maize seeds with plant growth-promoting bacteria isolated from the earthworm Aporetodea mollerii: effect on seed germination and seedling growth**  
Houida S., Yakkou L., Kaya L. O., Bilen S., Fadil M., Raouane M., El Harti A., Amghar S.  
LETTERS IN APPLIED MICROBIOLOGY, vol.75, no.1, pp.61-69, 2022 (SCI-Expanded)
- 7. Greenhouse gas fluxes in a no-tillage chronosequence in Central Ohio**  
Bilen S., Jacinthe P., Shrestha R., Jagadamma S., Nakajima T., Kendall J., Doohan T., Lal R., Dick W.  
SOIL & TILLAGE RESEARCH, vol.218, 2022 (SCI-Expanded)

8. **Enzymatic Analyses in Soils**  
Bilen S., Turan V.  
PRACTICAL HANDBOOK ON AGRICULTURAL MICROBIOLOGY, pp.377-385, 2022 (SCI-Expanded)
9. **Taxonomic and functional characteristics of aerobic bacteria isolated from the chloragogenous tissue of the earthworm *Aporrectodea molleri***  
Houida S., Yakkou L., Bilen S., Raouane M., El Harti A., Amghar S.  
ARCHIVES OF MICROBIOLOGY, vol.203, no.8, pp.4805-4812, 2021 (SCI-Expanded)
10. **Impacts of Gumushane cement dust emissions on soil elemental compositions**  
Bilen S., Özgül M., Ozlu E., Bilen M.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.45, no.6, pp.766-774, 2021 (SCI-Expanded)
11. **Co-inoculation effect of *Rhizobium* and *Achillea millefolium* L. oil extracts on growth of common bean (*Phaseolus vulgaris* L.) and soil microbial-chemical properties**  
Turan V., Schroder P., Bilen S., Insam H., Juarez M. F.  
SCIENTIFIC REPORTS, vol.9, 2019 (SCI-Expanded)
12. **Relationships between Cement Dust Emissions and Soil Properties**  
Bilen S., Bilen M., Turan V.  
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.28, no.5, pp.3089-3098, 2019 (SCI-Expanded)
13. **Soil organic carbon pools in ploughed and no-till Alfisols of central Ohio**  
Nakajima T., Shrestha R. K., Jacinthe P. -, Lal R., Bilen S., Dick W.  
SOIL USE AND MANAGEMENT, vol.32, no.4, pp.515-524, 2016 (SCI-Expanded)
14. **The effect of fire on the vegetation and soil properties of ungrazed shortgrass steppe rangeland of the Eastern Anatolia region of Turkey**  
Erkovan S., Koc A., Güllap M. K., Erkovan H. I., Bilen S.  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.40, no.2, pp.290-299, 2016 (SCI-Expanded)
15. **Effects of no-till duration on the methane oxidation capacity of Alfisols**  
Jacinthe P., Dick W. A., Lal R., Shrestha R. K., Bilen S.  
BIOLOGY AND FERTILITY OF SOILS, vol.50, no.3, pp.477-486, 2014 (SCI-Expanded)
16. **Effects of various tillage systems on soil CO<sub>2</sub>-C fluxes and on bacteria and fungi populations in *Zea mays***  
Altıkat S., Çelik A., Bilen S.  
African Journal Of Agricultural Research, vol.7, pp.2926-2934, 2012 (SCI-Expanded)
17. **Isolation and characterization of metal resistant-tolerant rhizosphere bacteria from the serpentine soils in Turkey**  
Turgay O. C., Gormez A., Bilen S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.184, no.1, pp.515-526, 2012 (SCI-Expanded)
18. **Sulfite oxidase enzyme activity in soil**  
Bilen S., Dick W. A.  
BIOLOGY AND FERTILITY OF SOILS, vol.47, no.6, pp.647-654, 2011 (SCI-Expanded)
19. **The effects of boron management on soil microbial population and enzyme activities**  
Bilen S., Bilen M., Bardhan S.  
AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.10, no.27, pp.5311-5319, 2011 (SCI-Expanded)
20. **Sulfur Cycle Enzymes**  
Klose S., Bilen S., Tabatabai M. A., Dick W. A.  
METHODS OF SOIL ENZYMOLOGY, vol.9, pp.125-159, 2011 (SCI-Expanded)
21. **Effect of cement dust pollution on microbial properties and enzyme activities in cultivated and no-till soils**  
Bilen S.  
AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH, vol.4, no.22, pp.2418-2425, 2010 (SCI-Expanded)
22. **Effects of strip and full-width tillage on soil carbon IV oxide-carbon (CO<sub>2</sub>-C) fluxes and on bacterial and fungal populations in sunflower**  
Bilen S., Çelik A., Altıkat S.

AFRICAN JOURNAL OF BIOTECHNOLOGY, vol.9, no.38, pp.6312-6319, 2010 (SCI-Expanded)

23. **Total Phenolics Mineral Contents Antioxidant and Antibacterial Activities of Glycyrrhiza Glabra L Roots Grown Wild in Turkey Italian Journal of Food Science**  
ERCİŞLİ S., ÇORUH İ., GÖRMEZ A., ŞENGÜL M., BİLEN S.  
Italian Journal Of Food Science, vol.1, pp.91-99, 2008 (SCI-Expanded)
24. **Total phenolics, mineral contents, antioxidant and antibacterial activities of Glycyrrhiza glabra L. roots grown wild in Turkey**  
Ercişli S., Çoruh İ., Gormez A., Şengül M., Bilen S.  
ITALIAN JOURNAL OF FOOD SCIENCE, vol.20, no.1, pp.91-99, 2008 (SCI-Expanded)
25. **Total Phenolics Mineral Elements Antioxidant and Antibacterial Activities of Some Edible Wild Plants in Turkey Asian Journal of Chemistry**  
ÇORUH İ., GÖRMEZ A., ERCİŞLİ S., BİLEN S.  
Asian Journal Of Chemistry, vol.19, no.7, pp.5755-5762, 2007 (SCI-Expanded)
26. **Total phenolics, mineral elements, antioxidant and antibacterial activities of some edible wild plants in Turkey**  
Coruh I., Gormez A. A., Ercisli S., Bilen S.  
Asian Journal of Chemistry, vol.19, no.7, pp.5755-5762, 2007 (SCI-Expanded)
27. **Effect of plant growth-promoting bacteria and soil compaction on barley seedling growth, nutrient uptake, soil properties and rhizosphere microflora**  
Canbolat M. Y., Bilen S., Cakmakçı R., Sahin F., Aydın A.  
BIOLOGY AND FERTILITY OF SOILS, vol.42, no.4, pp.350-357, 2006 (SCI-Expanded)

#### Articles Published in Other Journals

1. **Assessment of earthworm (Aporrectodea molleri)'s coelomic fluid-associated bacteria on different plant growth-promoting traits and maize germination and seedling growth**  
Yakkou L., Houida S., Bilen S., Kaya L. O., Raouane M., Amghar S., El Harti A.  
BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY, vol.42, 2022 (ESCI)
2. **2018 - Ulusal Hak - Araş Mak - Deterjan çözeltilerinin tarım topraklarının bazı özellikleri üzerine etkileri**  
Bilen S., Okyay Kaya L.  
TURKISH JOURNAL OF AGRICULTURAL AND NATURAL SCIENCE, vol.19, pp.1-10, 2018 (Peer-Reviewed Journal)
3. **2017 - Ulusal Hak - Derleme - Su Kirliliği ve Topraklar Üzerine Etkileri**  
Bilen S.  
İşte Sağlık, no.23, 2017 (Peer-Reviewed Journal)
4. **2013 - Int Hak - SWJ - Environmental Impacts of No-Till and Cultivation Practices on Greenhouse Gas Fluxes**  
Bilen S., Shrestha R., Jacinthe P. A., Dick W. A., Lal R.  
SOIL-WATER JOURNAL, vol.2, no.2, pp.1863-1870, 2013 (Peer-Reviewed Journal)
5. **Supporting negative impacts of local fat plant Erzurum Turkey on the population and variety of aquatic Coleoptera in Karasu river by physico chemical parameters**  
İncekara Ü., Bilen S., Yıldız Y. Ş., Aşkın H.  
Munis Entomology and Zoology, vol.4, no.2, pp.555, 2009 (Peer-Reviewed Journal)
6. **Supporting Negative Impacts of Local Fat Plant Erzurum Turkey on The Population and Variety of Aquatic Coleoptera in Karasu River by The Physico Chemical Parameters**  
İNCEKARA Ü., BİLEN S., YILDIZ Y. Ş., AŞKIN H.  
Munis Entomology Zoology, vol.4, no.2, pp.555-559, 2009 (Peer-Reviewed Journal)
7. **2005 - Ulusal Hak - Derleme - Toprak Kirlenmesi ve Biyolojik Çevre**  
Kızıloğlu F. T., Bilen S.  
Atatürk Üni. Ziraat Fak. Dergisi, vol.36, no.1, pp.83-88, 2005 (Peer-Reviewed Journal)

8. **2005 - Int Hak - PSP - Effects of Inoculation with Rhizobium phaseoli F7 F83 Isolates and Magnesium Fertilization on Dry Matter and Nitrogen Content of Bean Phaseolus Vulgaris**  
BİLEN S., KIZILOĞLU F. T.  
Parlar Scientific Publications (PSP) Advances Food Sciences, vol.27, no.3, pp.109-115, 2005 (Peer-Reviewed Journal)
9. **Farklı Topraklara Uygulanan Azotlu Gübrelemenin Nitrifikasyon Üzerine Etkisi**  
Kızıloğlu F. T., Bilen S., Ataoğlu N.  
Atatürk Üni. Zir. Fak. Dergisi, vol.32, pp.137-142, 2001 (Peer-Reviewed Journal)
10. **Azotobacter chroococcum İle Aşılamanın ve Çeşitli Düzeylerde Azot Gübrelemesinin Mısırın Zea Mays L Kök Üstü Kök Kuru Madde Miktarı Oranına Karbonhidrat ve Protein İçeriğine Etkisi**  
Kızıloğlu F. T., Bilen S., Ataoğlu N.  
Atatürk Üni. Zir. Fak. Dergisi, vol.32, no.3, pp.215-221, 2001 (Peer-Reviewed Journal)
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## Books & Book Chapters

1. **2024 - Int Book Chapter - The application of organic manure for better soil health and higher crop production**  
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in: Regenerative Agriculture: Translating Science to Action, Rakshit, A., Parihar, M., Singh Meena, V., Abhilash, P., Jha, P.K., Sarkar, D., Editor, CRC Press, Florida, pp.175-190, 2024
2. **2024 - Int Book Chapter - Exposure to emerging contaminants: ecotoxicological effects on earthworms and the potential of gut-associated microorganisms in bioremediation**  
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3. **2024 - Int Book Chapter - How do earthworms affect the microbial community during vermicomposting for organic waste recycling?**  
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4. **2022 - Int Book Chapter - PHAM - Enzymatic Analyses in Soils**  
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### Refereed Congress / Symposium Publications in Proceedings

1. **2022 - Int Cong - TM - Effect of earthworm's associated bacteria on plant metabolism**

Yakkou L., Houida S., Bilen S., Okyay Kaya L., Raouane M., Amghar S., El Harti A.

Second Edition of MAASI Scientific Week From 21 to 31 May 2022, Istanbul, Turkey (Hybrid), İstanbul, Turkey, 21 - 31 May 2022, pp.131-136

2. **2022 - Int Cong - TM - Metal-tolerant bacteria isolated from the earthworm *Apporectodea molleri*: promising coating inoculants for spinach seeds**

Houida S., Yakkou L., Okyay Kaya L., Bilen S., Raouane M., El Harti A., Amghar S.

Second Edition of MAASI Scientific Week From 21 to 31 May 2022, Istanbul, Turkey (Hybrid), İstanbul, Turkey, 21 - 31 May 2022, pp.137-142

3. **2021 - Int Cong - TM - The potential use of bacteria isolated from the earthworms *Apporectodea molleri* to promote spinach (*Spinacia oleracea*) growth under heavy metals**

HOUIDA S., YAKKOU L., OKYAY KAYA L., BİLEN S., RAOUANE M., EL HARTI A., AMGHAR S.

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4. **2021 - Int Cong - TM - In vivo plant promoting effect of bacteria isolated from the coelomic fluid of the earthworm *Apporectodea molleri***

YAKKOU L., HOUIDA S., BİLEN S., OKYAY KAYA L., RAOUANE M., AMGHAR S., EL HARTI A.

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5. **2019 - Int Cong - TM - Relations Between Boron Fertilization and Soil Microbial Properties. (OP)**  
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7. **2019 - Int Cong - TM - Response of different olive pulp biochar doses with sulfur or alone on microbial respiration and total bacteria population of soil.**

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9. **2018 - Int Cong - TM - Agbiol Edirne - Soil Phospatase Ativity in Different Buffer pH**  
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10. **2018 - Int Cong - TM - Agbiol Edirne - Effects of Soil Tillage on Soil Properties**  
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11. **2018 - Int Cong - Poster - Evaluation of mechanical behaviors of soil with different soil texture and aggregate size**  
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15. **2017 - Int Cong - TM - Effects of Achillea plant Essential Oil and some Rhizobium Bacteria Inoculation on Enzyme Activity of Soil planted bean (Phaseolus vulgaris) plant**  
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17. **2017 - Int ong - Poster - Sulardaki Toprak Kirletici Maddelerin Tarım Toprakları Üzerine Etkileri**  
BİLEN S., OKYAY KAYA L.  
ICADET "1st International Organic Agriculture and Biodiversity Symposium Bayburt", 27 - 29 September 2017
18. **2017 - Int Cong - TM - Aşkale Cement Dust Emission Effects on Soil Biological, Chemical and Soil Quality**  
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19. **2017 - Int Cong - TM - Alkaline Phosphatase Activity in Soil Affected by Additions of Zinc**  
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20. **Agriculture Congress**  
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21. **Laundry detergents play a very large role in daily life Commercial laundry detergent however contains many irritating and potentially toxic ingredients**

BİLEN S., BARIK K.

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22. **Effects of Laundry Detergent Residues on Some Biochemical Properties of the Farming Soil and Seeds Germination Rates**  
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24. **2015 - Int Cong - TM - CONCENTRATIONS OF MAJOR AND TRACE ELEMENTS IN SEDIMENT AND WATER OF VAN LAKE TURKEY BY ICP OES AND EDXRF**  
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25. **CONCENTRATIONS OF MAJOR AND TRACE ELEMENTS IN SEDIMENT AND WATER OF VAN LAKE TURKEY BY ICP OES AND EDXRF**  
AKDEMİR F., ASLI A., AKMAN F., BİLEN S., KAÇAL M. R., DURAK R.  
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26. **2014 - Int Cong - Poster - Effects of Plant Essential Oils on Soil Microbial Community and Soil Respiration 2014**  
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ASA, CSSA, SSSA International Annual Meetings, Long Beach, California., 2 - 05 November 2014
27. **2014 - Int Cong - Poster - Influence of Essential Oils on the Productivity of Bean Phaseolus vulgaris and Soil Microbial Community and Effectiveness of Rhizobium leguminosarum Inoculation**  
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28. **2014 - Int Cong - TM Sunu - Influence of plant exudates essential oils and or some different bacteria solution on the productivity of P vulgaris and soil microbial community**  
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9th International Soil Science Congress on “The Soul of Soil and Civilization, Side, Antalya / Turkey., 14 - 16 October 2014
29. **2013 - Int Cong - TM Sunu - Environmental Impacts of No Till and Cultivation Practices on Greenhouse Gas Fluxes**  
BİLEN S., Shrestha R., Jacinthe P. A., Dick W. A., Lal R.  
1st Central Asia Congress on Modern Agricultural Techniques and Plant Nutrition. Kyrgyz-Turkish Manas University (KTMU), Cengiz Aytmatov Campus, Bishkek, Kyrgyzstan., 1 - 03 October 2013, vol.2, pp.1863-1870
30. **2012 - Int Cong - TM Sunu - The Carbon Balance of No till Agroecosystems A Chronosequence Analysis**  
Jacinthe P. A., Dick W. A., BİLEN S., Jagadamma S.  
Vision for a Sustainable Planet. ASA, CSSA, SSSA International Annual Meetings, Cincinnati, Ohio., 21 - 24 October 2012
31. **2012 - Int Cong - TM Sunu - Tillage and Rotation Impacts on Greenhouse Gas Fluxes in Ohio USA**  
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32. **2012 - Int Cong - Poster - Greenhouse Gas Budgets After 46 years of Continuous Application of Various Tillage Practices**

BİLEN S., Shrestha R., Jacinthe P. A., Dick W. A., Lal R.

The 8th International Soil Science Congress on "Land Degredation and Challenges in Sustainable Soil Management" 15-17 May 2012, Cesme-İzmir-Turkey., İzmir, Turkey, 15 - 17 May 2012

33. **2011 - Int Cong - Poster - Greenhouse gases emission and carbon sequestration in agro ecosystems under long term no till implications for global warming mitigation Soil Carbon and Nitrogen Cycles Scaling Processes From Observations to Models II Posters**  
Jacinthe P. A., Dick W. A., Lal R., Shrestha R., BİLEN S.  
International AGU (American Geologist Union) Fall Meeting, December 5-9, Moscone Center, San Francisco, CA., San-Francisco, Costa Rica, 5 - 09 December 2011
34. **2011 - Int Cong - TM - No till Increases Nitrous Oxide Emissions and Global Warming Potential. Raj Shrestha, Pierre Andre Jacinthe, Serdar Bilen, Sindhu Jagadamma, Warren Dick Rattan Lal**  
SHRESTA R., JACHİNTE P. A., BİLEN S., JAGADAMA S., DİCK W. A., LAL R.  
ASA-CSSA-SSSA 2011 International Annual Meetings, "Fundamental for Life: Soil, Crop, Environmental Sciences," San Antonio, TX, 16 - 19 October 2011
35. **2010 - Int Cong - OP - Nitrogen Dynamics and Greenhouse Gas Emissions in a No till Chronosequence**  
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International Annual Meetings. Oct 31- Nov 4, Long Beach, CA., Long Beah, United States Of America, 31 October - 04 November 2010
36. **2010 - Int Cong - Poster - Greenhouse Gas Fluxes in A Tillage Chronosequence ASA CSSA and SSSA**  
BİLEN S., Jagadamma S., Jacinthe P. A., Shrestha R., Dick W. A.  
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37. **2010 - Int Cong - TM - Isolation and Characterization of Metal Tolerant BRB from Serpentine and Mine Soils in Turkey**  
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4th Annual International Scholar Research Exposition. The Ohio State University, Nov 2-Dec 31., 02 November 2010 - 31 December 2009
39. **2007 - Int Cong - Poster - Influence of Different Bioremediation Treatments on Enzyme Activities Biochemical Fertility Index and Hydrocarbon Content in an Experimentally Crude Oil Polluted Soil Proceedings,**  
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The Third International Conference. Enzymes in the Environment, Viterbo-Italy. 15-19 July, Viterbo / ITALY, P 95 No 902, 15 - 19 July 2007, vol.902, pp.95
40. **2007 - Int Cong - Poster - Evaluation of Soil Enzyme Activities and Biochemical Index for Monitoring the Impacts of Humic Substances Induced Biostimulation on Hydrocarbon Degradation in a Crude Oil Contaminated Soil**  
TURGAY O. C., Erdoğan E., BİLEN S., NAMLI A.  
15-19 July, Viterbo / ITALY, Proceedings, 15 - 17 July 2007
41. **2005 - Nat Cong - TM - Farklı Yaşlardaki Değişik Rhizobium Kültürleri İle Aşılamanın Ve Çeşitli Dozlardaki Azotlu Mineral Gübremenin Mercimek Lens Culunaris Bitkisinin Simbiyotik Özellikleri Üzerine Etkileri**  
BİLEN S., KIZILOĞLU F. T.  
GAP IV. Tarım Kongresi, 21-23 Eylül. Ş. Urfa., Turkey, 21 - 23 September 2006
42. **2006 - Int Cong - TM - The Effects of Cement Dust Pollution on The Microbial Prooerties of Agricultural Lands**  
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- 18 th International Soil Meeting (ISM) on "Soil Sustaining Life on Earth, Managing Soil and Technology".  
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43. **2006 - Int Cong - TM - Advanced Techniques in Soil Microbiology Structural and Functional Characterization of Soil Microbial Diversity by CLLP Analysis and PLFA Profiling**  
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KILIÇ E., TURAN M., BİLEN S., ŞAHİN F.  
3. Ulusal Gübre Kongresi, Tarım Sanayi Çevre. 11-13 Ekim, Biyogübreler, s: 953-958., Turkey, 11 - 13 October 2004, pp.953-958
45. **2004 - Nat Cong - TM - Toprakтан ve Yapraktan Uygulanan Azotlu Gübrelemenin ve Azotobacter sp İzolati İle Aşılamanın Buğday Bitkisinin Kuru Madde Miktarı ve Toplam Azot İçeriği Üzerine Etkisi**  
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International Soil Congress (ISC) on "Natural Resource Management for Sustainable Development" June 7-10, H.5, s: 32-38, Erzurum-Turkey, 7 - 10 June 2004, vol.5, pp.32-38
49. **Effects Of Some Plant Growth Regulators on Macro Element Contents Ca Mg And K of Bean Plant Phaseolus Vulgaris L Cv Terzibaba 1998 At Chilling Temperatures**  
DUMLUPINAR R., BİLEN S., ERDAL S.  
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50. **1998 - Int Cong - TM - Effect of microbial inoculation and chemical fertilizer on protein carbohydrate and shoot root dry matter ratio of corn Zea mays L plant**  
KIZILOĞLU F. T., BİLEN S., ATAĞLU N.  
M. Şefik Yeşilsoy International Symposium On Arid Region Soils. Organized by Soil Science Society of Turkey, General Directorate of Rural Services, Çukurova University and held under the aegis of the International Society of Soil Science. 21-24 September, Menemen, İzmir, Turkey, p:236-243., 21 - 24 September 1998, pp.236-243
51. **2002 - Int Cong - TM - Effects of Inoculation with Rhizobium Isolates and Different Doses of Magnesium Fertilizer on Dry Matter NO<sub>3</sub> N and Total Nitrogen Contents of Beans Phaseolus Vulgaris**  
BİLEN S., ATAĞLU N., KIZILOĞLU F. T.  
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52. **1999 - Nat Cong - TM - Değişik Azot Kaynaklarının Farklı Zamanlarda Uygulanmasının Patates Yumrusunun Besin Elementi İçeriğine Etkisi**  
KARADOĞAN T., BİLEN S.  
II. Ulusal Patates Kongresi, 28-30 Haziran. Erzurum, Turkey, 28 - 30 June 1999, pp.390-401

53. **1999 - Nat Cong - TM - Azot ve Fosforun Uygulama Şekli ve Miktarının Patates Yumrusunun Besin Elementi İçeriğine Etkisi Atatürk Üniversitesi Ziraat Fakültesi**  
KARADOĞAN T., BİLEN S.  
II. Ulusal Patates Kongresi, 28-30 Haziran. s: 384-389, Erzurum, Turkey, 28 - 30 June 1999, pp.384-389
54. **1998 - Nat Cong - TM - Azotlu ve mikrobiyal gübrelemenin bazı toprak özellikleri ile inorganik azot miktarına etkisi**  
KIZILOĞLU F. T., ATAĞLU N., BİLEN S.  
5. Ulusal Nükleer Tarım ve Hayvancılık Kongresi 20-22 Ekim Tebliğ Tam Metinleri Kitabı Selçuk Üniv. Konya, s:17-23., Turkey, 20 October - 22 September 1998, pp.17-23
55. **1998 - TM - Çeşitli Mısır bitkilerinin kök gövde ve yaprak kuru madde miktarları ve NO3 azotu içeriği üzerine Azotobacter chroococcum kültürleri ile aşılamanın ve azotlu kimyasal gübrelemenin etkisi**  
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56. **1995 - Nat Cong - TM - Topraklara Uygulanan Farklı Konsantrasyonlardaki Değişik Tuzların Birbirleri Üzerine Tamamlayıcı İyon Etkileri**  
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## Expert Reports

### 1. Asliye hukuk

Bilen S., Canbolat M. Y., Özgül M.

Atatürk Üniversitesi, pp.8, Erzurum, 2021

## Visual Activities

Bilen S., SCI - Nuture - Doğadan Sofraya Bilim - Canlı Yayın, Radio Program, 2022 - 2022

Bilen S., Organik Tarım Yapan Topluluklar, Radio Program, 2022 - 2022

BİLEN S., Radio Program, 2018 - 2018

BİLEN S., Radio Program, 2018 - 2018

## Academic and Administrative Experience

2021 - Continues	<b>Emekli Öğretim Üyesi Atama Komisyonu</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2021 - Continues	<b>Atatürk Üniversitesi Spor Kulübü Yönetim Kurulu Üyesi</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2020 - Continues	<b>Performance Evaluation Commission Member</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2020 - Continues	<b>Deputy Head of Department</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2019 - Continues	<b>Fakülte Spor Koordinatörü</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme

2019 - Continues	<b>Department Academic Incentive Evaluation Commission Member</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2018 - Continues	<b>Member of Department Promotion and Alumni Relations Commission</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2018 - Continues	<b>Member of Unit Promotion and Alumni Relations Commission</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2018 - Continues	<b>Member of Unit Quality Commission</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2018 - Continues	<b>Member of Department Quality Commission</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2018 - Continues	<b>Member of Programme Steering Committee</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2015 - Continues	<b>Adaptation/Exemption Committee Member</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2015 - Continues	<b>Faculty Academic Council Member</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2014 - Continues	<b>Erasmus Program Department Coordinator</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2012 - Continues	<b>Academic Council Member of Department</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2018 - 2021	<b>Head of Department</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2016 - 2021	<b>Tarım Bilgi Sistemi Bölüm Laboratuvar Sorumlusu (ÇKS)</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2014 - 2020	<b>Bologna</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2014 - 2018	<b>Mevlana Exchange Program Institutional Coordinator</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme
2014 - 2018	<b>Farabi Program Institutional Coordinator</b>	Ataturk University, Ziraat Fakültesi, Toprak Bilimi ve Bitki Besleme

## Courses

Toprak Biyolojisi, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Seminer MSc, Postgraduate, 2023 - 2024  
Seminer PhD, Postgraduate, 2023 - 2024

Toprak Mikrobiyolojisi, Postgraduate, 2023 - 2024, 2022 - 2023  
Mezuniyet Çalışması I, Undergraduate, 2022 - 2023  
Mezuniyet Çalışması II, Undergraduate, 2023 - 2024  
Toprak Bilimi ve Bitki Besleme, Undergraduate, 2022 - 2023  
Tarımda Mikrobiyal Gübreleme, Undergraduate, 2022 - 2023  
Danışmanlık MSc, Postgraduate, 2023 - 2024, 2022 - 2023  
Danışmanlık PhD, Doctorate, 2023 - 2024, 2022 - 2023  
UAD, Postgraduate, 2023 - 2024, 2022 - 2023  
Bitki Biyokimyası ve Fizyolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Ekolojik Tarım, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Toprak Ekolojisi, Undergraduate, 2021 - 2022  
Toprak Analizleri, Undergraduate, 2021 - 2022  
Toprak Laboratuvar Teknikleri, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020  
Toprak Biyolojisi, Undergraduate, 2021 - 2022  
Proje Tasarımı ve Veri Analizleri II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Proje Tasarımı Ve Veri Analizleri I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Mikrobiyal Gübreleme, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Toprak Bilgisi, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Toprak Mikroorganizmalarını İnceleme Metodları, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Toprak ve Çevresel Biokimya, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Toprak Biliminin İlkeleri 2, Undergraduate, 2020 - 2021, 2019 - 2020

## Advising Theses

Bilen S., Anız yakmanın tarım topraklarının biyolojik özellikleri üzerine etkileri, Postgraduate, İ.Denizoğlu(Student), Continues  
Bilen S., Farklı bitkilerin yetiştirildiği toprakların mikrobiyal aktivitelerinin karşılaştırılması., Postgraduate, İ.N.(Student), Continues  
Bilen S., Deve Gübresinin Toprakların Biyolojik Özelliklerine Etkileri, Postgraduate, G.Çelebi(Student), Continues  
Bilen S., Toprakta İzole Edilen Azot Fikse Eden Bakteriler ile Aşılamanın Lahana Bitkisinin Azot ve Fosfor İçeriği Üzerine Etkileri, Doctorate, A.YEMİŞÇİ(Student), Continues  
Bilen S., Toprakta İzole Edilen Bakterilerin Mısır Bitkisinin Gelişimi Üzerine Etkileri, Doctorate, L.OKYAY(Student), Continues  
Amghar S., Bilen S., Bacteria isolated from the chloragogenous tissue of the earthworm Aporectodea molleri: molecular identification and characterization of their potential to promote the growth (PGP) and the phytoremediation ability of Spinacia oleracea cultivated under heavy metal stress, Doctorate, S.Houida(Student), 2022  
Bilen S., Amghar S., In vitro demonstration of the role of earthworms on the growth of PGPR and PGPF microorganisms. Phylogenetic determination of bacteria isolated from the coelomic fluid of the earthworm Aporectodea molleri and characterization of their promoter properties on soil fertility and on the growth and the metabolism of maize (Zea mays) under abiotic stress conditions., Doctorate, L.Yakkou(Student), 2022  
Bilen S., Bazı organik (at ve tavuk) gübrelerin toprağın biyolojik özellikleri üzerine etkileri, Postgraduate, Z.KURT(Student), 2019  
Bilen S., Şeker pancarı küspesinin toprakların bazı biyolojik özellikleri üzerine etkisi, Postgraduate, M.YAPICI(Student), 2019  
Bilen S., Ağır metallerin toprakların biyolojik özellikleri üzerine etkileri, Postgraduate, A.YAVUZ(Student), 2019  
Bilen S., Azotlu Mineral Gübre ve Azotobacter sp Bakteri Uygulamasının Fındık Verimi Üzerine Etkileri., Postgraduate, O.Üçüncü(Student), 2018  
Bilen S., Köy ve Çiftlik Ortamında Yetiştirilen Tavuklardan Elde Edilen Gübrelerin Toprakların Bazı Özellikleri Üzerine Etkileri., Postgraduate, V.Aslan(Student), 2018  
Bilen S., Toz deterjan çözeltilerinin tarım topraklarının özellikleri üzerine etkileri, Postgraduate, L.OKYAY(Student), 2018



Bilen S., Azotlu mineral gübre ve Azotobacter sp bakteriy uygulamasının fındık verimi üzerine etkileri, Postgraduate, O.ÜÇÜNCÜ(Student), 2018

Bilen S., Effects of vermicompost fertilization on some soil properties, Postgraduate, A.YEMİŞÇİ(Student), 2018

Bilen S., Doğal koşullarda ve çiftlik ortamında yetiştirilen tavuklardan elde edilen gübrelerin toprakların bazı özellikleri üzerine etkileri, Postgraduate, V.ASLAN(Student), 2018

Bilen S., Toprakların ağır metal içerikleri üzerine çeşitli bakteri izolatlarının etkileri, Postgraduate, E.YILDIRIM(Student), 2017

Bilen S., Achillea bitkisi uçucu yağı ve Rhizobium bakterileri ile aşılamanın fasulye (Phaseolus vulgaris )'de bitki gelişimi, toprağın biyolojik ve biyokimyasal özellikleri üzerine etkileri, Doctorate, V.TURAN(Student), 2016

Bilen S., Fertigasyon metodu ile sulamanın, farklı dozlarda azotlu gübrelemenin ve bakteri (Azotobacter spp.) aşılmasının mısır (Zea mays L.) bitkisinin bazı verim unsurları üzerine etkileri, Postgraduate, N.DEMİRCİ(Student), 2014

Bilen S., Farklı yaşlardaki Rhizobium kültürleri ile aşılamanın mercimek bitkisinin verim unsurları üzerine etkisi, Postgraduate, S.MATUR(Student), 2009

### Activities in Scientific Journals

Frontiers in Soil Science, Assistant Editor/Section Editor, 2022 - Continues

Research in Agricultural Sciences, Assistant Editor/Section Editor, 2020 - Continues

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, Assistant Editor/Section Editor, 2021 - 2021

Turkish Journal Of Agriculture And Forestry, Assistant Editor/Section Editor, 2020 - 2020

### Memberships / Tasks in Scientific Organizations

GLOSOLAN Soil Laboratory Network - GLOSOLAN Soil Partnership, Member, 2023 - Continues, Hungary

EUROSOLAN Soil Laboratory Network - EUROSOLAN Soil Partnership, Member, 2022 - Continues, Hungary

NASOLAN Soil Laboratory Network - ULUSAL Soil Partnership, Member, 2021 - Continues, Turkey

American Geophysical Union, Member, 2013 - Continues

Soil Science Society of America, Member, 2009 - Continues

Çevre Gönüllüleri Derneği, Member, 2005 - Continues

Ziraat Mühendisleri Odası, Member, 1996 - Continues

Toprak İlmi Derneği, Member, 1994 - Continues

### Scientific Refereeing

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Tübitak, Turkey, March 2024

Atatürk Üniversitesi Ziraat Fakültesi Dergisi, Journal Indexed in ESCI, December 2023

SOIL SCIENCE SOCIETY OF AMERICA JOURNAL, SCI Journal, October 2023

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, SCI Journal, October 2023

Kahramanmaraş Sütçü İmam Üniversitesi Tarım Ve Doğa Dergisi, Journal Indexed in ESCI, October 2023

H2020 Project, H2020 Other Career Development Projects, Ataturk University, Turkey, October 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Tübitak, Turkey, October 2023

Kahramanmaraş Sütçü İmam Üniversitesi Tarım Ve Doğa Dergisi, Journal Indexed in ESCI, September 2023

Kahramanmaraş Sütçü İmam Üniversitesi Tarım ve Doğa Dergisi, Journal Indexed in ESCI, September 2023

ATMOSPHERE, SCI Journal, September 2023

SOIL AND TILLAGE RESEARCH AN INTERNATIONAL JOURNAL ON RESEARCH AND DEVELOPMENT CONCERNING SOIL, SCI Journal, August 2023

TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, SCI Journal, August 2023



TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, January 2023

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Tübitak, Turkey, January 2023

Çukurova Tarım ve Gıda bilimleri dergisi (Online), Journal Indexed in ESCI, November 2022

COMPOST SCIENCE & UTILIZATION, SCI Journal, October 2022

SOIL AND TILLAGE RESEARCH AN INTERNATIONAL JOURNAL ON RESEARCH AND DEVELOPMENT CONCERNING SOIL, SCI Journal, September 2022

SUSTAINABILITY, SCI Journal, July 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, July 2022

SUSTAINABILITY, SCI Journal, June 2022

JOURNAL OF AGRICULTURAL SCIENCES, Journal Indexed in ESCI, April 2022

kahramanmaraş sütçü imam üniversitesi Tarım ve Doğa Dergisi, Other Journals, October 2021  
Project Supported by Higher Education Institutions, BAP Research Project, Iğdir University, Turkey, October 2021  
SOIL & TILLAGE RESEARCH, SCI Journal, July 2021  
BIOMEDICAL AND ENVIRONMENTAL SCIENCES, SCI Journal, July 2021  
ARCHIVES OF MICROBIOLOGY, SCI Journal, April 2021  
GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, January 2021  
Selcuk Journal of Agriculture and Food Sci, Journal Indexed in ESCI, November 2020  
Current Journal of Applied Science and Technology, Other Journals, October 2020  
Kahraman Maraş Sütçü İmam Üni Dergisi, Journal Indexed in ESCI, October 2020  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, September 2020  
Journal of Agriulture and Nature, Other Journals, August 2020  
SOIL & TILLAGE RESEARCH, SCI Journal, August 2020  
Alinteri, Journal Indexed in ESCI, August 2020  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ataturk University, Turkey, August 2020  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ataturk University, Turkey, June 2020  
Asian Journal of Advances in Agricultural Research, Journal Indexed in ESCI, May 2020  
GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, May 2020  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, SCI Journal, February 2020  
Turkish Journal of Agriculture, Journal Indexed in ESCI, January 2020  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ataturk University, Turkey, January 2020  
Journal of Agricultural Sciences. JAS-T20. 2019., SCI Journal, November 2019  
Journal of Agricultural Sciences. JAS-T23. 2019, SCI Journal, September 2019  
Journal of Agricultural Sciences. JAS-484805. 2019., SCI Journal, August 2019  
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, SCI Journal, August 2019  
Journal of Agricultural Sciences. JAS-1377226. 2019+., SCI Journal, June 2019  
İğdir Üni. Fen Bil. Dergisi. IUFBD-18. 2019, Other Indexed Journal, June 2019  
Turkish Journal of Agriculture – TURJAF , Other Indexed Journal, April 2019  
Soil Tillage. STILL-18-115. 2018, SCI Journal, March 2018  
Journal of Agricultural Sciences. JAS-5ae370d0bfb74. 2018, SCI Journal, February 2018  
Alinteri Journal of Agriculture Science . AT-2018. 2018, National Scientific Refreed Journal, January 2018  
Atatürk Üni. Ziraat Fak. Derg. AÜZF-58d8d1580fd62. 2017, Other Indexed Journal, May 2017  
Journal of Experimental Agriculture International. JEAI 30553. 2017, SCI Journal, April 2017  
Çukurova Üniversitesi. ÇÜ-BAP-2017. 2017, National Scientific Refreed Journal, April 2017  
Journal of Agriculture and Ecology Research International. 2017/JAERI/36094. 2017., SCI Journal, April 2017  
Journal of Experimental Agriculture International. Ms\_JEAI\_31335. 2017, SCI Journal, March 2017  
International Journal of Plant & Soil Science . 2017/IJPSS/36430. 2017., SCI Journal, March 2017  
International Journal of Plant & Soil Science. 2017/IJPSS/36461. 2017., SCI Journal, March 2017  
Gaziosmanpaşa Üniversitesi Ziraat Fakültesi Dergisi. Makale No : JAFAG-ID1064. 2017, SCI Journal, February 2017  
Türk Tarım ve Ormanlık Dergisi. TTAR-669-4972-2-RV. 2016, SCI Journal, April 2016  
American Journal of Experimental Agriculture. AJEA\_27138 2016, SCI Journal, April 2016  
Mustafa Kemal Üniversitesi. MKÜ-5000159963-5000270146-1-RV. 2016, SCI Journal, March 2016  
NOBEL YAYIN EVİ. B. KACAR. KOLAY UYGULANABİLİR BİTKİ ANALİZLERİ. 2014, Scientific / Professional Book Published by Renowned Publishing Houses, March 2014  
Türk Tarım ve Ormanlık Dergisi. TTAR-1303-82. 2013, SCI Journal, February 2013  
İğdir Üni. Ziraat Fakültesi Dergisi. 323-FBED-124. 2012, SCI Journal, March 2012  
Journal of Soil Science and Environmental Management. JSSEM-12-047. 2012, SCI Journal, March 2012  
İğdir Üni. Ziraat Fakültesi Dergisi. 323-FBED-136. 2012, SCI Journal, March 2012  
Acta Physiologiae Plantarum. ACPP-D-12-00295. 2012, SCI Journal, February 2012

FBED 8FF4C73D. 2011, SCI Journal, September 2011  
RECENT PATENTS ON FOOD, NUTRITION & AGRICULTURE. BSP-FNA -2011-01. 2011., SCI Journal, July 2011  
International Greener Journals. GJEMPS11-006. 2011, SCI Journal, May 2011  
African Journal of Agricultural Research. AJAR-11-722. 2011, SCI Journal, April 2011  
Journals of Agriculture and Biological Sciences. JABS-11-097. 2011, SCI Journal, March 2011  
African Journal of Agricultural Research. AJAR-11-484. 2011, SCI Journal, March 2011  
ULUDAĞ ÜNİVERSİTESİ ZİRAAT FAKÜLTESİ DERGİSİ. UUZFD-M-9. 2011, SCI Journal, February 2011  
International Greener Journals. GJEMPS11-006. 2011, SCI Journal, February 2011  
Geoderma. GEODER6229. 2010, SCI Journal, May 2010  
African Journal of Agricultural Research. AJAR-10-041. 2010, SCI Journal, April 2010

## Tasks In Event Organizations

Bilen S., Wiatrowska K., Reclamation of lignite post-mining areas. Polish achievements. (2024 Nisan), Scientific Congress, Erzurum, Turkey, Nisan 2024  
Bilen S., 3th International Symposium on Biodiversity Research (ISBR-2021), Scientific Congress, Erzurum, Turkey, Ekim 2021

## Scientific Research / Working Group Memberships

Fao Glosolan - Global Soil Laboratory Network - Global Soil Partnership, FAO - Food and Agriculture Organization - , Hungary, <https://www.fao.org/global-soil-partnership/glosolan/en/>, 2023 - Continues  
Fao Eurosolan- Europe Soil Laboratory Network - Europe Soil Partnership, FAO - Food and Agriculture Organization - , Hungary, <https://www.fao.org/europe/en>, 2022 - Continues  
Fao Glosolan - Global Soil Laboratory Network 5Th Meeting, Roma - FAO - Food and Agriculture Organization , Italy, <https://www.fao.org/global-soil-partnership/glosolan/en/>, 2021 - Continues  
Fao Glosolan - Global Soil Laboratory Network 6Th Meeting, Roma - FAO - Food and Agriculture Organization , Italy, <https://www.fao.org/global-soil-partnership/resources/events/detail/en/c/1470321/>, 2021 - Continues  
Nasolan Soil Laboratory Network - Ulusal Soil Partnership, FAO - Food and Agriculture Organization - Land and Water Division, İstanbul, Turkey, <https://www.fao.org/global-soil-partnership/resources/highlights/detail/fr/c/1391119/>, 2021 - Continues

## Metrics

Publication: 106  
Citation (WoS): 699  
Citation (Scopus): 808  
H-Index (WoS): 13  
H-Index (Scopus): 14

## Congress and Symposium Activities

Bölüm Semineri, Audience, Erzurum, Turkey, 2024  
Küresel Toprak Laboratuvarları Ağı (GLOSOLAN) VII. Toplantısı, Audience, İstanbul, Turkey, 2023  
Küresel Toprak Laboratuvarları Ağı (GLOSOLAN) VI. Toplantısı, Attendee, Ankara, Turkey, 2022  
Küresel Toprak Laboratuvarları Ağı (GLOSOLAN) V. Toplantısı , Attendee, Ankara, Turkey, 2021  
BİLEN SERDAR,Özlu Ekrem,Bilen Murat,ÖZGÜL MÜDAHİR,BARİK KENAN., 2019. Impacts of Cement Dust Emissions on Predicting Soil CO2 Fluxes in Gumushane, Turkey.ASA-SSSA Int. Annual Meetings of the ASA., CSSA, and SSSA. San

Antonio, TX, USA. 10-13 November 2019. "Embracing the Digital Environment", Working Group, Texas, United States Of America, 2019

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2018

BİLEN SERDAR, Dick Warren A., 2018. SOIL PHOSPHATASE ACTIVITY IN DIFFERENT BUFFER PH AND STOCK CULTURE. "International Agricultural, Biological and Life Science Conference" Trakya University, Edirne, Turkey. September 2-5, 2018., Attendee, Edirne, Turkey, 2018

BİLEN SERDAR, İslam Refik, Bilen Murat, ÖZGÜL MÜDAHİR., 2018. EFFECTS OF SOIL TILLAGE ON SOIL PROPERTIES. "International Agricultural, Biological and Life Science Conference" Trakya University, Edirne, Turkey. September 2-5, 2018., Attendee, Edirne, Turkey, 2018

Int. Agricultural, Biological and Life Science Conference" Trakya University, Edirne, Turkey. September 2-5, 2018., Session Moderator, Edirne, Turkey, 2018

Trabzon Arazi Kullanım Çalıştayı, Moderator, Trabzon, Turkey, 2018

HACİMÜFTÜOĞLU FAZIL, BİLEN SERDAR, CANBOLAT MUSTAFA YILDIRIM., 2018. Evaluation of mechanical behaviors of soil with different soil texture and aggregate size. IV. International Agriculture Congress, Nevşehir Turkey. 05-08 2018, Attendee, Nevşehir, Turkey, 2018

BİLEN SERDAR, CANBOLAT MUSTAFA YILDIRIM, HACİMÜFTÜOĞLU FAZIL., 2018. Effects of No-till (Conservation) Systems and Conventional Tillage Systems on Some Soil Properties. IV. International Agriculture Congress, Nevşehir Turkey. 05-08 2018, Attendee, Nevşehir, Turkey, 2018

BİLEN SERDAR, HACİMÜFTÜOĞLU FAZIL, CANBOLAT MUSTAFA YILDIRIM., 2018. Effects of organic and chemical fertilizer on some soil properties. IV. International Agriculture Congress, Nevşehir Turkey. 05-08 2018, Attendee, Nevşehir, Turkey, 2018

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2018

Serdar Bilen and Veysel Turan., 2017. Effects of Achillea plant Essential Oil and some Rhizobium Bacteria Inoculation on Enzyme Activity of Soil planted bean (*Phaseolus vulgaris*). Int. Annual Meetings of the ASA, CSSA and SSSA. "Managing Global Resources for a Secure Future," on Oct. 22-25, 2017, Tampa, Florida., Attendee, Florida, United States Of America, 2017

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2017

Mikrobiyal Gübre Çalıştayı, Invited Speaker, Kastamonu, Turkey, 2017

Serdar Bilen, Warren A. Dick., 2017. Alkaline Phosphatase Activity in Soil Affected by Additions of Zinc. "1. International Organic Agriculture and Biodiversity Symposium 27-29 September 2017 Bayburt", Attendee, Bayburt, Turkey, 2017

Serdar Bilen, Refik İslam, Leyla Okyay Kaya., 2017. Aşkale Cement Dust Emission Effects on Soil Biological, Chemical and Soil Quality. "1. International Organic Agriculture and Biodiversity Symposium 27-29 September 2017 Bayburt", Attendee, Bayburt, Turkey, 2017

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2017

Serdar Bilen, Murat Bilen, Kenan Barik, Mustafa Yıldırım Canbolat. 2016. Effects of Laundry Detergent Residues on Some Biochemical Properties of the Farming Soil and Seeds Germination Rates. Resilience Emerging from Scarcity and Abundance. Int. Annual Meetings of the ASA, CSSA and SSSA. 6-9 November 2016. Phoenix Convention Center, Phoenix, AZ, USA., Attendee, Arizona, United States Of America, 2016

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2016

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2016

Can Turgay, O., Bilen, S., Görmez, A., Çelik, G. Y., 2006. Advanced Techniques in Soil Microbiology; Structural and Functional Characterization of Soil Microbial Diversity by "CLLP Analysis " and "PLFA Profiling". 18 th International Soil Meeting (ISM) on "Soil Sustaining Life on Earth, Managing Soil and Technology". Proceedings Volume I. May 22-26, p: 7-14, Sanliurfa, Turkey, Attendee, Turkey, 2016

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2015

Serdar Bilen, Murat Bilen, Orhan Yılmaz. 2015. Effects of dust detergent residues on biological properties of the farming soils. The Proceedings of the International Congress on "Soil Science in International Year of Soils". 19-23 October, 2015. Sochi, RUSSIA., Attendee, Sochi, Russia, 2015

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2015

TOVAG Bilimsel Araştırma Projeleri Panelist, Panelists, Ankara, Turkey, 2014

Serdar Bilen, 2014. Effects of Plant Essential Oils on Soil Microbial Community and Soil Respiration. 2014 ASA, CSSA, &

SSSA Int. Annual Meetings, Nov. 2-5, Long Beach, CA., Attendee, California, United States Of America, 2014

Veysel Turan, Serdar Bilen, 2014. Influence of Essential Oils on the Productivity of Bean (*Phaseolus vulgaris*) and Soil Microbial Community and Effectiveness of *Rhizobium leguminosarum* Inoculation. 2014 ASA, CSSA, & SSSA Int. Annual Meetings, November 2-5, 2014, Long Beach, California., Attendee, California, United States Of America, 2014

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## Research Areas

Agricultural Sciences, Agriculture, Soil and Plant Feed, Soil Biology, Soil Fertility, Acidity, Alkalinity

## Representation and Promotion Activities



## REPRESENTATION AND PROMOTION ACTIVITIES

Institutional Representation, Atatürk Üni. Spor Kültür Daire Başkanlığı, Turkey, Erzurum, 2024 - 2024

Institutional Representation, Tarım Bakanlığı, Turkey, Erzurum, 2014 - 2021

## Non Academic Experience

University, THE OHIO STATE UNI., SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES, SOIL SCIENCE

Ohio State University, USA