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Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Tarımsal Yapılar Ve Sulama (Dr), Turkey 2014 - 2020

Postgraduate, Selcuk University, Institute Of Science, Tarımsal Yapılar Ve Sulama (YI) (Tezli), Turkey 2011 - 2014

Undergraduate, Selcuk University, Faculty Of Agriculture, Department Of Agricultural Engineering, Turkey 2007 - 2011

Dissertations

Doctorate, FARKLI SULAMA SUYU KALİTESİ VE TABANSUYU DERİNLİKLERİNİN FASÜLYENİN (*Phaseolus vulgaris* L.) VERİMİNE ETKİSİ, Ankara University, Fen Bilimleri Enstitüsü, Tarımsal Yapılar Ve Sulama (Dr), 2020

Postgraduate, Laboratuvar koşullarında farklı toprak tekstürlerinde, değişik tuzluluklarda oluşturulan taban suyundan kapillar tuz taşınımı, Selcuk University, Fen Bilimleri Enstitüsü, Tarımsal Yapılar Ve Sulama (YI) (Tezli), 2014

Academic Titles / Tasks

Research Assistant PhD, Ankara University, Ziraat Fakültesi, Tarımsal Yapılar Ve Sulama Bölümü, 2013 - Continues

Research Assistant, Ankara University, Ziraat Fakültesi, Tarımsal Yapılar ve Sulama Bölümü, 2013 - Continues

Research Assistant, Selcuk University, Institute Of Science, Tarımsal Yapılar Ve Sulama (YI) (Tezli), 2014 - 2014

Courses

ÖLÇME BİLGİSİ 3, Associate Degree, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Quantitative and Qualitative Assessment of Turkey's Water Resources Potential**
ÖZTÜRK A., ÇOLAK M. S.
Tarım Bilimleri Dergisi, vol.30, no.1, pp.1-34, 2024 (SCI-Expanded)
- II. **Artificial neural network modeling for deciphering the in vitro induced salt stress tolerance in chickpea (*Cicer arietinum* L)**

Aasim M., Akin F., Ali S. A., TAŞKIN M. B., ÇOLAK M. S., Khawar K. M.

Physiology and Molecular Biology of Plants, vol.29, no.2, pp.289-304, 2023 (SCI-Expanded)

III. **Improving reservoir inflow prediction via rolling window and deep learning-based multi-model approach: case study from Ermenek Dam, Turkey**

Feizi H., Apaydın H., Sattari M. T., Colak M. S., Sibtain M.

STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, vol.36, no.10, pp.3149-3169, 2022 (SCI-Expanded)

IV. **Surface water quality classification using data mining approaches: Irrigation along the Aladag River**

Sattari M. T., Feizi H., ÇOLAK M. S., ÖZTÜRK A., Ozturk F., APAYDIN H.

IRRIGATION AND DRAINAGE, vol.70, pp.1227-1246, 2021 (SCI-Expanded)

V. **Estimation of sodium adsorption ratio in a river with kernel-based and decision-tree models**

Sattari M. T., Feizi H., ÇOLAK M. S., ÖZTÜRK A., APAYDIN H., Ozturk F.

ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.9, 2020 (SCI-Expanded)

VI. **Comparative Analysis of Recurrent Neural Network Architectures for Reservoir Inflow Forecasting**

APAYDIN H., Feizi H., Sattari M. T., ÇOLAK M. S., Shamshirband S., Chau K.

WATER, vol.12, no.5, 2020 (SCI-Expanded)

VII. **Drainage Water Salt Load Variations Related to the Salinity and Leaching Ratios of Irrigation Water**

YURTSEVEN E., ÇOLAK M. S., ÖZTÜRK A., ÖZTÜRK H. S.

JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, vol.24, no.3, pp.394-402, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **DSİ 15. Bölge Sulama Şebekelerinde Tarımda Su Kullanımının Değerlendirilmesi**

ÇOLAK M. S., ÇAKMAK B.

Süleyman Demirel Üniversitesi Ziraat fakültesi Dergisi, pp.26-30, 2018 (Peer-Reviewed Journal)

II. **Su Kirliliğinin Tarıma Etkileri**

ÇOLAK M. S., AVCI S.

TARIM TÜRK, no.67, pp.9-12, 2017 (Non Peer-Reviewed Journal)

III. **Ülkemizin Su Varlığı**

ÇOLAK M. S.

TARIM TÜRK-GÜBRE ve SULAMA, no.63, pp.32-34, 2017 (Non Peer-Reviewed Journal)

IV. **Sulama Zamanı Planlanmasında Kullanılan Yeni Teknolojiler**

ÖZTÜRK A., ÇOLAK M. S.

Tarım Türk Gübre Ve Sulama Dergisi, no.57, pp.16-21, 2016 (Non Peer-Reviewed Journal)

Books & Book Chapters

I. **BAZI TARLA BİTKİLERİ İÇİN, SU KALİTESİ-VERİM İLİŞKİLERİ**

ÇOLAK M. S., ÖZTÜRK A.

in: Ziraat, Orman ve Su Ürünleri Alanlarına Güncel Bakış, Prof. Dr. Hatice ÖĞÜTCÜ, Öğr. Gör. Muhammed Yunus Emre KARAMAN, Editor, Platanus Publishing, Ankara, pp.8-30, 2023

II. **SULAMA SUYU ÜCRETLERİNDE SULAMA SUYU KALİTESİ FAYDALANMA ORANLARI.**

ÖZTÜRK A., ÇOLAK M. S.

in: KÜÇÜK EKOLOJİK DEĞİŞİMLERİN BÜYÜK TARIMSAL SORUNLARA ETKİSİ, NİZAMETTİN TURAN, Editor, İksad Yayınevi, pp.195-213, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **DETERMINATION OF SOIL SALT LOAD FOR SOME HORTICULTURAL PLANTS GROWN UNDER DIFFERENT WATER QUALITY AND DIFFERENT IRRIGATION METHODS CONDITIONS IN ANKARA**
ÇOLAK M. S., ÖZTÜRK A.
ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-IX, Ankara, Turkey, 26 December 2023
- II. **SALT ACCUMULATION IN THE SOIL IN TERMS OF IRRIGATION METHODS**
Öztürk A., Çolak M. S.
8TH INTERNATIONAL BILTEK CONGRESS ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES October 24-26, 2023 Paris, Paris, France, 24 - 26 October 2023, pp.11-25
- III. **METHODS USED IN DETERMINING AND MONITORING SALINIZED AGRICULTURAL AREAS**
Öztürk A., Çolak M. S.
8TH INTERNATIONAL BILTEK CONGRESS ON CURRENT DEVELOPMENTS IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES October 24-26, 2023 Paris, Paris, France, 24 - 26 October 2023, pp.1-10
- IV. **THE EFFECT OF IRRIGATION WATER QUALITY ON THE DEVELOPMENT OF ORNAMENTAL PLANTS**
Çolak M. S., Öztürk A.
6. INTERNATIONAL PALANDOKEN SCIENTIFIC STUDIES CONGRESS 24-25 JUNE 2023 ERZURUM / TURKIYE, Erzurum, Turkey, 24 - 25 June 2023, pp.881-888
- V. **NEW APPROACHES IN AGRICULTURAL WATER MANAGEMENT: WATER FOOTPRINT.**
AVCI S., TORUN E., ÇOLAK M. S., YILDIRIM A. C.
ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VII, Ankara, Turkey, 2 - 04 December 2022
- VI. **CURRENT DEVELOPMENTS AND USE OF TECHNOLOGY IN DAIRY CATTLE BREEDING.**
YILDIRIM A. C., ÇOLAK M. S., AVCI S.
ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VII, Ankara, Turkey, 2 - 04 December 2022
- VII. **DETERMINING THE WATER FOOTPRINT OF PLANT PRODUCTION IN KIRSEHIR.**
POLAT H. E., AVCI S., ÇOLAK M. S., YILDIRIM A. C.
AHI EVRAN 2ND INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCH, Kırşehir, Turkey, 21 - 23 October 2022, vol.1, pp.151-159
- VIII. **THE EFFECTS OF AGRICULTURAL ACTIVITIES ON ENVIRONMENTAL POLLUTION.**
Polat H. E., Avcı S., Çolak M. S., Yıldırım A. C.
AHI EVRAN 2ND INTERNATIONAL CONFERENCE ON SCIENTIFIC RESEARCH, Kırşehir, Turkey, 21 - 23 October 2022, vol.2
- IX. **Using Drainage Water In Agriculture**
ÖZTÜRK A., ÇOLAK M. S.
14th International Conference On Mathematics, Engineering, Natural And Medical Sciences., Paris, France, 6 - 07 July 2022, vol.1, pp.247-253
- X. **SALINITY MANAGEMENT AND LEACHING PRACTICES.**
POLAT H. E., AVCI S., ÇOLAK M. S., ÖZTÜRK A.
Hodja Akhmet Yassawı 6 Th International Conference On Scientific Research, Lankaran, Azerbaijan, 13 - 15 May 2022, vol.1, pp.659-664
- XI. **CARBON FOOTPRINT IN AGRICULTURE**
POLAT H. E., ÇOLAK M. S., AVCI S., ÖZTÜRK A.
Hodja Akhmet Yassawı 6 Th International Conference On Scientific Research, Lankaran, Azerbaijan, 13 - 15 May 2022, vol.1, pp.665-670
- XII. **Unmanned Aerial Vehicles And Their Place In Agriculture.**
ÇOLAK M. S., ÖZTÜRK A.
International Scientific Research Congress Dedicated To The 30th Anniversary Of Baku Eurasia University., Azerbaijan, 27 - 28 April 2022, vol.1, pp.1251-1258
- XIII. **Determination Of Proportional Yield And Soil Salt Loads For Some Field Crops Grown In Different Salty Conditions In The Mediterranean Region**
ÇOLAK M. S., ÖZTÜRK A.
International Scientific Research Congress Dedicated To The 30th Anniversary Of Baku Eurasia University, Azerbaijan, 27 - 28 April 2022, vol.1, pp.1241-1250

- XIV. **Yields Evaluation of some field crops grown in central Anatolian in salty conditions.**
 ÇOLAK M. S., ÖZTÜRK A.
 Latin American International Conference on Natural and Applied Sciences, November 5-6, 2021, Villahermosa, Mexico, Villahermosa, Mexico, 5 - 06 November 2021, pp.340-349
- XV. **ARTIFICIAL RAIN ON THE VERGE OF DROUGHT.**
 ÖZTÜRK A., ÇOLAK M. S.
 Latin American International Conference on Natural and Applied Sciences, November 5-6, 2021, Villahermosa, Mexico, Villahermosa, Mexico, 5 - 06 November 2021, pp.331-339
- XVI. **The Effect Of Limited Irrigation On The Yields Of Some Field Crops Grown In Central Anatolian Conditions**
 ÇOLAK M. S., ÖZTÜRK A.
 3. International Baku Scientific Research Congress. October 15-16, 2021/ Baku, Azerbaijan Baku Eurasia University, Baku, Azerbaijan, 15 - 16 October 2021, pp.742-749
- XVII. **The Effects Of Different Irrigation Water Quality And Irrigation Methods On Salt Accumulation In The Soil**
 ÖZTÜRK A., ÇOLAK M. S.
 Middle East International Conference On Contemporary Scientific Studies – Vi. Saint Joseph University Of Beirut, Faculty Of Educational Sciences, On September 20-22, 2021., Beyrut, Lebanon, 20 - 22 September 2021, pp.1-10
- XVIII. **Drought Monitoring–Evaluation and Forecast**
 Akçakoca F., Apaydın H., Öztürk A., Çolak M. S.
 EJONS 12th INTERNATIONAL CONGRESS ON MATHEMATIC, ENGINEERING AND NATURAL SCIENCES July 9-11, 2021. Paris, FRANCE., Paris, France, 9 - 11 July 2021, pp.1-18
- XIX. **Drought Monitoring–Evaulation and Forecast**
 APAYDIN H., ÖZTÜRK A., ÇOLAK M. S., Fatma A.
 EJONS- 12th International Conference On Mathematics, Engineering, Natural & Medical Sciences, France, 09 July 2021
- XX. **Machines Used In Installation Of Agricultural Drainage Systems**
 ÖZTÜRK A., ÇOLAK M. S., APAYDIN H., AKÇAKOCA F.
 Mas 14th International European Conference On Mathematics, Engineering, Natural & Medical Sciences March 26-28, 2021 / Széchenyi István University, Hungary., Hungary, 26 - 28 March 2021, pp.50-59
- XXI. **Model Used In Determining The Evapotranspiration: Cropwat Example**
 ÖZTÜRK A., ÇOLAK M. S.
 Mas 14th International European Conference On Mathematics, Engineering, Natural & Medical Sciences March 26-28, 2021 / Széchenyi István University, Hungary, Hungary, 26 - 28 March 2021, pp.60-67
- XXII. **The Effect Of Irrigation Water Quality On Plant Development**
 ÇOLAK M. S., AVCI S., YILDIRIM A. C.
 Hodja Akhmet Yassawı 4th International Conference On Scientific Research February 12-13, 2021 / ANKARA – TURKEY., Ankara, Turkey, 12 - 13 February 2021, pp.443-453
- XXIII. **Possibilities Of Use Of Waste Water In Agriculture**
 AVCI S., ÇOLAK M. S., YILDIRIM A. C.
 Hodja Akhmet Yassawı 4th International Conference On Scientific Research February 12-13, 2021 / Ankara – Turkey., Ankara, Turkey, 12 - 13 February 2021, pp.601-612
- XXIV. **Effects Of Different Water Tables On Soil Moisture In Different Soil Textures, Different Soil Depth**
 ÇOLAK M. S., ÇİFTÇİ N.
 International European Conference On Interdisciplinary Scientific Researches-III January 15-16, 2021/Comrat State University/Comrat, Moldavia., Comrat, Moldova, 15 - 16 January 2021, pp.201-210
- XXV. **Salt Movement From Different Salt Affected Water Tables In Different Soil Textures Under Laboratory Conditions**
 ÇOLAK M. S., ÇİFTÇİ N.
 International European Conference On Interdisciplinary Scientific Researches-III. Comrat State University/Comrat, Moldavia, Comrat, Moldova, 15 - 16 January 2021, pp.193-200

- XXVI. **Tarımda Su ve Tuzluluk Yönetimi**
YURTSEVEN E., SEMİZ G. D., AVCI S., ÇOLAK M. S.
IX. TÜRKİYE ZİRAAT MÜHENDİSLİĞİ TEKNİK KONGRESİ, 13-17 Ocak, Ankara, Ankara, Turkey, 13 - 17 January 2020, pp.119-140
- XXVII. **The Impact of Irrigation Practices on Drainage Water Salinity: SoilColumn Experiments with Sandy Soil**
YURTSEVEN E., ÇOLAK M. S., ÖZTÜRK H. S., ÖZTÜRK A.
1st International Congress on Agricultural Structures and Irrigation 26-28 September 2018 Antalya, Antalya, Turkey, 26 - 28 September 2018, pp.82-87
- XXVIII. **Climate change, water resources and food safety**
ÇAKMAK B., ÇOLAK M. S.
1.International GAP Agriculture-Livestock Congress, Şanlıurfa, Turkey, 25 - 27 April 2018
- XXIX. **Effects of abiotic stress conditions on plants**
ÇOLAK M. S., AVCI S., ÖZTÜRK A., YURTSEVEN E.
1.International GAP Agriculture Livestock Congress, Şanlıurfa, Turkey, 25 - 27 April 2018
- XXX. **Yaşamın Kaynağı ve Suyun Dağılımına Global ve Ülkesel Bakış**
ÇOLAK M. S., ÖZTÜRK A.
Uluslararası Su ve Çevre Kongresi-Bursa, Bursa, Turkey, 22 - 24 March 2018, pp.2215
- XXXI. **Toprak Tuzluluğunun Matematiksel Modellerle İncelenmesi: Hydrus-1D Örneği**
ÇOLAK M. S., AVCI S., YURTSEVEN E., ÖZTÜRK A.
Uluslararası Su ve Çevre Kongresi-Bursa, Bursa, Turkey, 22 - 24 March 2018, pp.891-896
- XXXII. **Kısıtlı Sulama ve Yıkama Hacmi Etkisinde Uzun Dönem Toprak Tuzluluğunun Değişimi**
YURTSEVEN E., ÖZTÜRK H. S., ÇOLAK M. S., ÖZTÜRK A., ÖZER T. B., AKKAYA G.
5.ULUSLARARASI KATILIMLI TOPRAK VE SU KAYNAKLARI KONGRESİ, Kırklareli, Turkey, 12 - 15 September 2017, pp.226
- XXXIII. **Yıkama Hacmi Uygulamasının Toprakta Tuzların Yıkanmasına Olan Etkisi**
YURTSEVEN E., ÇOLAK M. S., ÖZTÜRK H. S., ÖZTÜRK A., ÖZER T. B., AKKAYA G.
5.ULUSLARARASI KATILIMLI TOPRAK VE SU KAYNAKLARI KONGRESİ, Kırklareli, Turkey, 12 - 15 September 2017, pp.89
- XXXIV. **Phenotyping Technologies for Plant Breeding**
Semiz G. D., Çolak M. S., Avcı S.
International Symposium on Multidisciplinary Studies, Ankara, Turkey, 10 - 11 November 2017, pp.61
- XXXV. **Usage of Agricultural Waste**
ÇOLAK M. S., AVCI S., SEMİZ G. D.
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- XXXVI. **Possible Use of Alternative Energy Sources in Agriculture**
ÇOLAK M. S., AVCI S., SEMİZ G. D.
International Symposium on Multidisciplinary Studies, Ankara, Turkey, 10 - 11 November 2017, pp.145
- XXXVII. **Use of Agricultural Mathematical Models: Hydrus-1d Model**
Çolak M. S., Avcı S., Semiz G. D.
International Symposium on Multidisciplinary Studies, Ankara, Turkey, 10 - 11 November 2017, pp.146
- XXXVIII. **Irrigation and salinization:Rise and collapse of civilizations**
SEMİZ G. D., ÇOLAK M. S., AVCI S.
International Symposium on Multidisciplinary Studies, Ankara, Turkey, 10 - 11 November 2017, pp.62
- XXXIX. **Comparison of measured and simulated EC of soil water in relation with irrigation water salinity and leaching ratio**
YURTSEVEN E., ÇOLAK M. S., AVCI S., ÖZTÜRK H. S., ÖZTÜRK A., Simunek J.
VII. International Scientific Agriculture Symposium "Agrosym 2017", Jahorina, Jahorina, Bosnia And Herzegovina, 5 - 08 October 2017, pp.2013-2022
- XL. **The effects of irrigation water salinity and leaching fractions on SAR components of soil solution in lyzimeter conditions**

YURTSEVEN E., AVCI S., ÇOLAK M. S., ÖZTÜRK H. S., ÖZTÜRK A., Simunek J.

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XLI. Utilization of Water Resources and Sustainable Crop Production

ÖZTÜRK H. S., YURTSEVEN E., YILDIZ M., ÖZTÜRK A., ÇOLAK M. S.

10th International Symposium on Agriculture and the Environment, Şikago, United States Of America, 23 - 27 May 2016

XLII. Change in the salinity composition of drainage water in soil columns irrigated by different salinity and varying leaching fractions of water

YURTSEVEN E., ÖZTÜRK H. S., ÖZTÜRK A., YILMAZ M. S.

Soil Science in International years of Soils 2015, Sochi, Russia, 19 - 23 October 2015, pp.436-440

Metrics

Publication: 55

Citation (WoS): 179

Citation (Scopus): 221

H-Index (WoS): 5

H-Index (Scopus): 5