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Education Information

Doctorate, Universitaet Hohenheim, Landwirtschaftliche Fakultaet (Ziraat Fakültesi), Pflanzen Produktion İn Den Tropen Und Subtropen (Tropik Ve Sub-Tropik Bölgelerde Bitkisel Üretim), Germany 1988 - 1993
Postgraduate, Cukurova University, Ziraat Fakültesi, Tarımsal Yapılar Ve Sulama Bölümü, Turkey 1985 - 1987
Undergraduate, Cukurova University, Ziraat Fakültesi, Tarımsal Yapılar Ve Sulama Bölümü, Turkey 1981 - 1985

Foreign Languages

English, C1 Advanced
German, C1 Advanced

Dissertations

Postgraduate, dolmalık biberde farklı sulama aralıklarının verim ve kaliteye etkileri, Cukurova University, Ziraat Fakültesi, Tarımsal Yapılar ve Sulama, 1987

Research Areas

Agricultural Sciences, Agriculture, Farm Structures and Irrigation, Irrigation, Water Resources Development, Agricultural Hydrology and Meteorology, Water Conservation, Information Systems in Irrigation

Academic Titles / Tasks

Professor, Cukurova University, Ziraat Fakültesi, Tarımsal Yapılar ve Sulama, 2007 - Continues

Academic and Administrative Experience

Cukurova University, Ziraat Fakültesi, 2014 - Continues
Cukurova University, Ziraat Fakültesi, Tarımsal Yapılar ve Sulama, 1995 - Continues
Cukurova University, Yumurtalık Meslek Yüksek Okulu, Teknik Programlar, 2000 - 2006
Cukurova University, Yumurtalık Meslek Yüksek Okulu, Teknik Programlar, 2000 - 2006
Cukurova University, Ziraat Fakültesi, 2000 - 2003

Cukurova University, Ziraat Fakültesi, 1995 - 1998

Courses

Ölçme Bilgisi, Undergraduate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Spatial Patterns and Magnitudes of Agriculturally Pertinent Climate Indicators across Agroecosystems in Turkiye**
Irmak S., Kukal M. S., TOPÇU S.
JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY, vol.61, no.9, pp.1329-1348, 2022 (SCI-Expanded)

II. **Genetic Analysis of Root-to-Shoot Signaling and Rootstock-Mediated Tolerance to Water Deficit in Tomato**
Asins M. J., Albacete A., Martinez-Andujar C., ÇELİKTOPUZ E., SOLMAZ İ., SARI N., Perez-Alfocea F., Dodd I. C., Carbonell E. A., TOPÇU S.
GENES, vol.12, no.1, 2021 (SCI-Expanded)

III. **Turkey**
TOPÇU S., KİBAROĞLU A., KADİRBEYOĞLU BOYLA Z.
IRRIGATION IN THE MEDITERRANEAN: TECHNOLOGIES, INSTITUTIONS AND POLICIES, vol.22, pp.185-212, 2019 (SCI-Expanded)

IV. **Determination of Phenolics, Sugars, Organic Acids and Antioxidants in the Grape Variety Kalecik Karasi under Different Bud Loads and Irrigation Amounts**
Tangolar S. G., TANGOLAR S., Kelebek H., TOPÇU S.
KOREAN JOURNAL OF HORTICULTURAL SCIENCE & TECHNOLOGY, vol.34, no.3, pp.495-509, 2016 (SCI-Expanded)

V. **The Effects of Bud Load and Applied Water Amounts on the Biochemical Composition of the `Narince? Grape Variety (Vitis vinifera L.)**
TANGOLAR S., TANGOLAR S., TARIM G., Kelebek H., TOPÇU S.
NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA, vol.43, no.2, pp.380-387, 2015 (SCI-Expanded)

VI. **The Effects of Bud Load and Applied Water Amounts on the Biochemical Composition of the 'Narince' Grape Variety (Vitis vinifera L.)**
Gok Tangolar S., TANGOLAR S., TARIM G., KELEBEK H., TOPÇU S.
NOTULAE BOTANICAE HORTI AGROBOTANICI CLUJ-NAPOCA, vol.43, no.2, pp.380-387, 2015 (SCI-Expanded)

VII. **Effects of different bud loads and irrigations applied at different leaf water potential levels on Kalecik Karasi grape variety**
TANGOLAR S., TANGOLAR S., TOPÇU S.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.39, no.6, pp.887-897, 2015 (SCI-Expanded)

VIII. **APEX simulation of best irrigation and N management strategies for off-site N pollution control in three Mediterranean irrigated watersheds**
Cavero J., Barros R., Sellam F., TOPÇU S., Isidoro D., Hartani T., Lounis A., İBRİKÇİ H., ÇETİN M. T., Williams J. R., et al.
AGRICULTURAL WATER MANAGEMENT, vol.103, pp.88-99, 2012 (SCI-Expanded)

IX. **Spatial and Temporal Variability of Groundwater Nitrate Concentrations in Irrigated Mediterranean Agriculture**
İBRİKÇİ H., ÇETİN M. T., Karnez E., Kirda C., TOPÇU S., Ryan J., Oztekin E., DİNGİL M., Korkmaz K., OĞUZ H.
COMMUNICATIONS IN SOIL SCIENCE AND PLANT ANALYSIS, vol.43, pp.47-59, 2012 (SCI-Expanded)

X. **Projecting climate change, drought conditions and crop productivity in Turkey**
Sen B., TOPÇU S., Turkes M., Sen B., Warner J. F.
CLIMATE RESEARCH, vol.52, no.1, pp.175-191, 2012 (SCI-Expanded)

XI. **USING AN ELECTROMAGNETIC SENSOR COMBINED WITH GEOGRAPHIC INFORMATION SYSTEMS TO**

MONITOR SOIL SALINITY IN AN AREA OF SOUTHERN TURKEY IRRIGATED WITH DRAINAGE WATER
ÇETİN M., İBRİKÇİ H., Kirda C., KAMAN H., Karnez E., Ryan J., TOPÇU S., ÖZTEKİN M. S., DİNGİL M., Sesveren S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, no.5, pp.1133-1145, 2012 (SCI-Expanded)

XII. **Sustaining Mediterranean irrigated agriculture under a changing climate**
Antonio Rodriguez-Diaz J., TOPÇU S.
OUTLOOK ON AGRICULTURE, vol.39, no.4, pp.269-275, 2010 (SCI-Expanded)

XIII. **MONITORING GROUNDWATER NITRATE CONCENTRATIONS UNDER IRRIGATION IN THE CUKUROVA REGION OF SOUTHERN TURKEY**
İBRİKÇİ H., Cetin M., Karnez E., Topcu S., Kirda C., Ryan J., Oguz H., Dingil M., Oztekin E.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.19, no.9, pp.1802-1812, 2010 (SCI-Expanded)

XIV. **Yield response and N-fertiliser recovery of tomato grown under deficit irrigation**
Topcu S., Kirda C., Dasgan Y., Kaman H., Cetin M., Yazici A., Bacon M. A.
EUROPEAN JOURNAL OF AGRONOMY, vol.26, no.1, pp.64-70, 2007 (SCI-Expanded)

XV. **Mandarin yield response to partial root drying and conventional deficit irrigation**
Kirda C., Topaloglu F., Topcu S., Kaman H.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.31, no.1, pp.1-10, 2007 (SCI-Expanded)

XVI. **Prospects of partial root zone irrigation for increasing irrigation water use efficiency of major crops in the Mediterranean region**
Kirda C., Topcu S., Cetin M., Dasgan H. Y., Kaman H., Topaloglu F., Derici M. R., Ekici B.
ANNALS OF APPLIED BIOLOGY, vol.150, no.3, pp.281-291, 2007 (SCI-Expanded)

XVII. **Salt accumulation in the root zones of tomato and cotton irrigated with partial root-drying technique**
Kaman H., Kirda C., Cetin M., Topcu S.
IRRIGATION AND DRAINAGE, vol.55, no.5, pp.533-544, 2006 (SCI-Expanded)

XVIII. **Grain yield response and N-fertiliser recovery of maize under deficit irrigation**
Kirda C., Topcu S., Kaman H., Ulger A., Yazici A., Cetin M., Derici M.
FIELD CROPS RESEARCH, vol.93, pp.132-141, 2005 (SCI-Expanded)

XIX. **Yield response of greenhouse grown tomato to partial root drying and conventional deficit irrigation**
Kirda C., Cetin M., Dasgan Y., Topcu S., Kaman H., Ekici B., Derici M., Ozguven A.
AGRICULTURAL WATER MANAGEMENT, vol.69, no.3, pp.191-201, 2004 (SCI-Expanded)

XX. **Growth and production of tomatoes in greenhouses at different temperature levels**
Baytorun A., Topcu S., Abak K., Dasgan Y.
GARTENBAUWISSENSCHAFT, vol.64, no.1, pp.33-39, 1999 (SCI-Expanded)

Articles Published in Other Journals

I. **SERASIM: 3-D Expert System For Greenhouse Design**
ŞEN B., TOPÇU S., GÜĞERCİN Ö., ÖZTÜRK H. H.
TÜRK TARIM - GIDA BİLİM VE TEKNOLOJİ DERGİSİ, no.1, pp.94-100, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Irrigation: Environmental Effects**
TOPÇU S., Kırda C.
in: Reference Module in Earth Systems and Environmental Sciences, Elias S. (Editor in Chief), Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.1-20, 2013

II. **Water for Agriculture: A Major and Inefficient Consumer**
TOPÇU S.

in: Turkey?s Water Policy, Kibaroğlu A. Kramer A. Scheumann W., Editor, Springer, London/Berlin , Heidelberg Dordrecht London New York, pp.93-116, 2011

III. **Tarım Mühendisliğinde Çevre Sorunları**
TOPÇU S.
Çukurova Üniversitesi Ziraat Fakültesi, Adana, 1998

Refereed Congress / Symposium Publications in Proceedings

I. **Management of bacterial speck disease of tomato grown under four individual polythene glazing greenhouses**
Kirli M. M., HORUZ S., AYSAN Y., TOPÇU S.
5th International Symposium on Tomato Diseases, Malaga, Spain, 13 - 16 June 2016

II. **Farklı anaç aşı kombinasyonlarının su ve fosfor eksikliği koşullarında domates bitkisi vejetatif gelişimine etkileri**
ÇELİKTOPUZ E., karaca ö. f., TOPÇU S., şahiner y.
13. Ulusal Kültürteknik Kongresi, Antalya, Turkey, 12 - 15 April 2016, pp.198

III. **The effects of bud load and regulated deficit irrigation on sugar organic acid phenolic compounds and antioxidant activity of Razakı table grape berries**
TANGOLAR S., TARIM G., KELEBEK H., TANGOLAR S., TOPÇU S.
38th World Congress of Vine and Wine (Part 1), 5 - 10 July 2015, vol.5, pp.7

IV. **The effects of bud load and regulated deficit irrigation on sugar, organic acid, phenolic compounds and antioxidant activity of Razaki table grape berries**
TANGOLAR S., TARIM G., Kelebek H., Tangolar S. G., TOPÇU S.
38th World Congress of Vine and Wine, Mainz, Germany, 5 - 10 July 2015, vol.5

V. **Ammonium and Nitrate Status of the First Crop Corn Fields at Cukurova Region.**
KARNEZ E., İBRİKÇİ H., ÖZTEKİN M. E., DİNGİL M., ÇETİN M., TOPÇU S., Oğuz H., Korkmaz K.
International Meeting on Soil Fertility, Land Management and Agroclimatology, Aydın, Turkey, 29 October - 01 November 2008, pp.90

VI. **Aşağı Seyhan Ovası Akarsu Sulama Sahası Taban Sularında Nitrat Konsantrasyonu ve oluşturacağı Çevresel Risk Potansiyeli**
İBRİKÇİ H., KARNEZ E., OĞUZ H., ÇETİN M., OZTEKIN M., DİNGİL M., KIRDA C., TOPÇU S., EFE H.
Sulama ve Drenaj Konferansı. 10-11 Nisan 2008/Adana., Turkey, 10 - 11 April 2008

VII. **Soil temperatures affected by different solarization practices**
SESVEREN S., TOPÇU S., Kirda C.
3rd International Symposium on Models for Plant Growth, Environmental Control and Farm Management in Protected Cultivation, Wageningen, Suriname, 29 October - 02 November 2006, pp.299-302

Episodes in the Encyclopedia

I. **Encyclopedia of Soils in the Environment**
TOPÇU S.
Elsevier Science, Elsevier Science, Oxford/Amsterdam, pp.267-273, 2004

Supported Projects

TOPÇU S., EU Framework Program Project, "Empowering root-targeted strategies to minimize abiotic stress impacts on horticultural crops", 2012 - Continues

TOPÇU S., DÜNDAR Ö., SARI N., SOLMAZ İ., Project Supported by Higher Education Institutions, Bahçe bitkilerinde

abiyotik stres etkilerini en aza indirmek için kökhedefli stratejilerin güçlendirilmesi ROOTOPOWER, 2015 - 2017
TOPÇU S., AKYILDIZ A., AYSAN Y., ÖZTÜRK H. H., SOLMAZ İ., Project Supported by Higher Education Institutions, Farklı Özellikte Plastik Örtü Malzemelerinin Domates Üretiminde Bitki Gelişimi ve Verimi ile Kurşuni Küf (Botrytis Cinerea) Ve Bakteriyel Kara Leke Hastalığının (Pseudomonas Tomato) Mücadelesine Etkileri, 2015 - 2017
TANGOLAR S., TANGOLAR S., TOPÇU S., Project Supported by Higher Education Institutions, Effects of different bud loads and irrigations applied at different leaf water potential levels on Kalecik Karasi grape variety, 2016 - 2016
TANGOLAR S., TANGOLAR S., TOPÇU S., TARIM G., Project Supported by Higher Education Institutions, The Effects of Bud Load and Applied Water Amounts on the Biochemical Composition of the Narince Grape Variety Vitis vinifera L., 2016 - 2016
TOPÇU S., ŞEN B., Project Supported by Higher Education Institutions, Climate change impacts on corn production in Turkey, 2015 - 2016
TANGOLAR S., TOPÇU S., TANGOLAR S., ALKAN TORUN A., TARIM G., Project Supported by Higher Education Institutions, Topraksız Kültür Sisteminde Sofralık Üzüm Yetiştiriciliğinin Araştırılması, 2014 - 2016
TOPÇU S., Project Supported by Higher Education Institutions, Farklı Anaç-Aşı Kombinasyonlarının Su ve Fosfor Eksikliği Koşullarında Domates Bitkisi Su Kullanım Randımanı ile Verim ve Meyve Kalitesine Etkileri, 2013 - 2015
TOPÇU S., Project Supported by Higher Education Institutions, Bahçe Bitkilerinde Abiyotik Stres Etkilerini en Aza İndirmek İçin Kök-Hedefli Stratejilerin Güçlendirilmesi (ROOTOPOWER), 2012 - 2015

Metrics

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H-Index (Scopus): 10