

## Prof. ALKHAN SARIYEV

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: J-8494-2018

### Education Information

Undergraduate, Azərbaycan Teknik Üniversitesi, Uygulamalı Fizik Ve Otomasyon, Azerbajjan 1980 - 1985

### Foreign Languages

English, B1 Intermediate

Russian, C1 Advanced

### Dissertations

Doctorate, Mathematical modeling of micro-climate regime in the environment of soil-plant-atmosphere (Rus Dilinde), Rusya Bilimler Akademisi Agrofizik Araştırma Enst./St.-Petersburg/Rusya, Tarımsal Fizik, Matematiksel Modelleme, 1991

Postgraduate, Model and data assurance for the dynamic calculation of the soil moisture. (Rus Dilinde), Rusya Bilimler Akademisi Agrofizik Araştırma Enst./St.-Petersburg/Rusya, Tarımsal Fizik, Matematiksel Modelleme, 1987

### Research Areas

Agriculture, Soil and Plant Feed, Soil Physics (moisture and hydromechanics, gas content, thermal phenomena), Mathematics, Numerical Analysis, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Azərbaycan Bilimler Akademisi, Toprakşınaslık Ve Agrokimya Araştırma Enstitüsü, Toprak Fiziği Ve Enerjisi, 2002 - 2007

Assistant Professor, Cukurova University, Fen Bilimleri Enstitüsü, Toprak, 1994 - 2002

Assistant Professor, Azərbaycan Bilimler Akademisi, Tarımsal Araştırma Enstitüsü, Toprak Fiziği, 1991 - 1993

Research Assistant, St. Petersburg State University, Agrofizik, Matematiksel Modelleme, 1985 - 1991

Research Assistant, Azərbaycan Bilimler Akademisi, Azərbaycan Tarımsal Araştırma Enstitüsü, İklimlendirme, 1985 - 1985

### Academic and Administrative Experience

## Courses

Mühendislik Matematiği, Undergraduate, 2016 - 2017

## Advising Theses

Sariyev A., Karapınar (Konya) Tarihsel Çölleşme Alanı Topraklarının Uzun Süreçte Badem-Akasya Altındaki Kalite Değişimleri, Postgraduate, O.Okur(Student), 2010

Sariyev A., Doctorate, Y.TÜLÜN(Student), 2006

Sariyev A., THE MEASUREMENT OF SOIL WATER CONTENT AND AVAILABLE WATER LEVELS BY TDR (TIME DOMAIN REFLECTOMETRY) AND THE CALIBRATION OF THE TOOL IN VARIOUS SOIL TEXTURE CLASSES, Postgraduate, Y.TÜLÜN(Student), 2005

Sariyev A., MATHEMATICAL MODELING OF GROWTH, DEVELOPMENT AND YIELD OF WHEAT (*Triticum Aestivum* L) IN SOIL-WATER-ATMOSPHERE SYSTEM, Doctorate, M.MÜJDECİ(Student), 2004

Sariyev A., MEASUREMENT OF THE SOIL TEMPERATURE IN SOIL COLUMNS WITH AD/DA CONVERTER CARD-SENSORS AND ITS SIMULATION ALONG WITH THE DETERMINATION OF THE THERMAL CONDUCTIVITY, Postgraduate, E.ÇELEBİ(Student), 2003

Sariyev A., MATHEMATICAL MODELING AND CALCULATION OF ENERGY AND MASS TRANSFER IN SOIL-PLANT-ATMOSPHERE CONTINUITY, Doctorate, V.POLAT(Student), 2000

Sariyev A., MEASUREMENT OF SOIL TEMPERATURE DISTRIBUTION USING COMPUTER AIDED THERMOELEMENTS IN SOIL PROFILE AND MODELING OF SOIL TEMPERATURE REGIME, Postgraduate, C.AYDIN(Student), 1997

Sariyev A., DETERMINATION OF PHYSICAL PARAMETERS AND HYDRAULIC PROPERTIES OF THE WIDELY DISTRIBUTED SOIL SERIES, Postgraduate, R.CANBOLAT(Student), 1996

Sariyev A., DETERMINATION OF POTENTIAL PRODUCTIVITY OF DIYARBAKIR-88 WHEAT VARIETY UTILIZING CROPSYST PLANT GROWTH MODEL, Postgraduate, H.AKSOY(Student), 1996

Sariyev A., MATHEMATICAL MODELING AND DETERMINATION OF PHYSICAL PARAMETERS AND HYDRAULIC PROPERTIES SOILS OF ESKİŞEHİR AGRICULTURAL RESEARCH INSTITUTE, Postgraduate, H.ÖZTÜRK(Student), 1996

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

- I. **Sub-Surface Drip Irrigation in Associated with H<sub>2</sub>O<sub>2</sub> Improved the Productivity of Maize under Clay-Rich Soil of Adana, Turkey**  
Sariyev A., BARUTÇULAR C., ACAR M., Hossain A., El Sabagh A.  
PHYTON-INTERNATIONAL JOURNAL OF EXPERIMENTAL BOTANY, vol.89, no.3, pp.519-528, 2020 (SCI-Expanded)
- II. **Effect of solarization under different applications on soil temperature variation and microbial activity**  
Dogan K., Sariyev A., GÖK M., Coskan A., Tulun Y., Sesveren S., PAMİRALAN H.  
JOURNAL OF FOOD AGRICULTURE & ENVIRONMENT, vol.11, no.1, pp.329-332, 2013 (SCI-Expanded)
- III. **Measurement of the soil temperature in soil columns with AD/DA converter card-sensors and its simulation along with the determination of the thermal conductivity**  
Sariyev A., CELEBI E., Müjdecı M.  
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.4, pp.3099-3104, 2007 (SCI-Expanded)
- IV. **Mathematical modelling of soil hydraulic properties and numerical analyses of moisture dynamic**  
Sariyev A., Polat V., Mujdecı M., Yusufova M., Akca E.  
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.4, pp.3125-3131, 2007 (SCI-Expanded)
- V. **Investigation of the relationships between stoma resistance and soil water matric potential with**

**other environmental factors in respect of mathematical modelling of plant water-consumption**

Müjdeci M., Saryev A., Celik I., Tülün Y., Karaca H.

ASIAN JOURNAL OF CHEMISTRY, vol.19, no.3, pp.2045-2052, 2007 (SCI-Expanded)

**VI. Buğdayın (Triticum aestivum L.) Gelişme Dönemleri ve Yaprak Alan İndeksinin Matematiksel Modellenmesi**

Müjdeci M., SARIYEV A., POLAT V.

Ankara Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.11, no.3, pp.278-282, 2005 (SCI-Expanded)

**VII. Buğday (Triticum Aestivum L.) Veriminin Matematiksel Modellenmesi**

Müjdeci M., SARIYEV A., POLAT V.

Ankara Üniversitesi Ziraat Fakültesi Tarım Bilimleri Dergisi, vol.11, no.4, pp.349-353, 2005 (SCI-Expanded)

**Articles Published in Other Journals**

- I. **Tarla koşullarında doymamış toprak hidrolik iletkenliğinin belirlenmesi ve matematiksel modellenmesi**  
Saryev A., Sesveren S., Tülün Y., Kaman H., Acar M.  
Mediterranean Agricultural Sciences (Akdeniz Üniversitesi Ziraat Fakültesi Dergisi), vol.33, no.2, pp.291-298, 2020 (Peer-Reviewed Journal)
- II. **GIS EVALUATION OF AZERBAIJAN SOILS**  
ARTUN O., SARIYEV A., Koca Y. k., Şatır O., Akça E.  
Journal of Soil Science and Agrochemistry Azerbaijan National Academy of Science, no.20, pp.77-82, 2011 (Peer-Reviewed Journal)
- III. **Determination of Unsaturated Hydraulic Conductivity at Field Conditions and Mathematical Modeling**  
Saryev A.  
Journal of Soil Science and Agrochemistry Azerbaijan National Academy of Science, vol.20, pp.54-57, 2011 (Peer-Reviewed Journal)
- IV. **Determination of Water Content and Thermal Conductivity Relation in Soil Solarization.**  
SARIYEV A.  
Journal of Soil Science and Agrochemistry Azerbaijan National Academy of Science, vol.20, pp.58-61, 2011 (Peer-Reviewed Journal)
- V. **Mathematical Modelling of Soil Hydraulic Properties and Numerical Analyses of Moisture Dynamic**  
Saryev A., POLAT V., Müjdeci M., Yusufova M., Akça E.  
Türkiye Toprak İlimi Derneği, vol.1, no.1, pp.347-353, 2002 (Peer-Reviewed Journal)
- VI. **Aerodistans metoduyla farklı yüzeylerde radyasyon sıcaklığının tanımlanması**  
R A., SARIYEV A., F M.  
Naučno-texniçeskiy byülletin po agronomičeskoj fizike AFI, pp.35-39, 1998 (Peer-Reviewed Journal)
- VII. **Toprak rutubet karakteristik eğrisi ve toprak-kök sisteminde su akımının matematiksel modellenmesi**  
SARIYEV A.  
ÇUKUROVA ÜNİV. ZİRAAT FAK., vol.1, no.2, pp.257-268, 1995 (Peer-Reviewed Journal)
- VIII. **Mathematical modelling of the energy and mass flows under the Greenhouse conditions**  
Saryev A.  
J. Agrofizika, pp.3-8, 1994 (Peer-Reviewed Journal)
- IX. **Cropsyst Bitki yetiştirme Modelinin Buğday İçin Çukurova Koşullarında Test Edilmesi**  
Aydın M., Yeşilsoy M. Ş., Koç M., Kanber R., Çelik İ., Barutçular C., Tuli A., Saryev A., Baytorun N., Alkan A., et al.  
Toprak İlimi Derneği, vol.I, no.7, pp.126-134, 1993 (Peer-Reviewed Journal)
- X. **The moisture transfer in the Greenhouses**  
Saryev A.  
Dokladi VASXNIL, pp.51-59, 1991 (Peer-Reviewed Journal)
- XI. **Model and data assurance for the dynamic calculation of the soil moisture**  
Saryev A.

Sbornik naučnix trudov SXI, pp.101-107, 1990 (Peer-Reviewed Journal)

**XII. The selection of the interaction name for the microclimate block of the basic plant growth model (CLIM)**

Sariyev A.

Naučno-texniçeskiy byülletin po agronomiçeskoj fizike AFI, pp.18-21, 1990 (Peer-Reviewed Journal)

**XIII. Temel bitki gelişim modeli bünyesinde toprak malçlaması için enerji deęişim modeli**

Sariyev A.

Naučno-texniçeskiy byülletin po agronomiçeskoj fizike AFI, vol.76, pp.56-62, 1989 (Peer-Reviewed Journal)

## **Books & Book Chapters**

**I. TOPRAK FİZİĞİ**

SARIYEV A.

Çukurova Üniversite Yayınları, Adana, 2012

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Soil Carbon Stock and Structural Stability Index Affected by Organic and Inorganic Fertilization**

KAYA Ö., ACAR M., Wahab T., Işık M., ORTAŞ İ., SARIYEV A.

4th Agriculture, Environment and Health Congress, Aydın, Türkiye, Aydın, Turkey, 20 June 2021

**II. Mean Weight Diameter and Water Holding Capacity of Aggregates Under Contrasting Soil Tillage Systems**

ACAR M., ÇELİK İ., Günel H., Sariyev A.

Eurosoil İstanbul 2016, İstanbul, Turkey, 16 - 21 October 2016, pp.588

**III. Micromorphological comparison of surge and continuous furrow irrigation in cotton (SE Turkey).**

Şahan S., Akça E., Cangir C., Sariyev A., ÇELİK İ., Boyraz D., Kapur S.

Meeting on Soil Micromorphology, Adana, Turkey, 20 - 26 October 2004, pp.154-157

**IV. Investigation of the Relationships Between Stoma Resistance and Soil Water Matric Potential with Other Environmental Factors in the Respect of Mathematical Modelling of Plant Water Consumption**

Müjdeci M., Sariyev A., ÇELİK İ., Tülün Y., Karaca H.

International Soil Congress (ISC) on ?Natural Resource Management for Sustainable Development, Erzurum, Turkey, 7 - 10 June 2004, pp.31-38

**V. Workshop: Ecosystem-based assessment of soil degradation to facilitate land users? and land owners? prompt actions ECOLAND**

Akça E., Steduto P., Sariyev A., Özden M., ÇELİK İ., Çimrin M., Zdruli P., Kamber R., Rayn J., Kapur S.

Inherited Agroscares of the Mediterranean: Sustainable Natural Resource Management, Adana, Turkey, 2 - 07 July 2003, pp.37-40

**VI. Ağroekosistemde Enerji ve Kütle Akımlarının Matematiksel Modellemesi ve Sayısal Hesaplaması**

Sariyev A., POLAT V.

TBUS3 3. Tarımda Bilgisayar Uygulamaları Sempozyumu, Adana, Turkey, 3 - 06 October 1999, vol.1, no.1, pp.14

**VII. The Evaluation of Philip?s Model for the Determination of Vertical and Horizontal Infiltration Rates in Soils.**

ÇELİK İ., Sariyev A.

1St International Conference on Land Degradation, Adana, Turkey, 10 - 14 June 1996, pp.38-45

**VIII. Cropsyst Bitki Yetiştirme Modelinin Buğday İçin Çukurova Koşullarında Test Edilmesi**

Aydın M., Yeşilsoy M. Ş., Koç M., Kanber R., ÇELİK İ., Barutçular C., Tuli A., Sariyev A., Baytorun N., Alkan A., et al.

İlhan Akalan Toprak ve Çevre Sempozyumu, Ankara, Turkey, 5 - 08 October 1995, vol.1, no.7, pp.126-134

## **Metrics**

Publication: 45

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