

## Asst. Prof. SEMA KAPLAN

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-0846-2053

ScopusID: 57193224101

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### Education Information

Doctorate, Ankara University, Faculty Of Agriculture, Department Of Agrology And Plant Nutrition, Turkey 2014 - 2021

Postgraduate, Ankara University, Faculty Of Agriculture, Department Of Agrology And Plant Nutrition, Turkey 2011 - 2014

Postgraduate, Universiteit Gent, Faculty of Bioscience Engineering, Soil Degradation and Conservation, Belgium 2012 - 2012

Undergraduate, Ankara University, Faculty Of Agriculture, Department Of Agrology And Plant Nutrition, Turkey 2004 - 2011

Undergraduate, Georg-August-Universitaet Göttingen, Agrarwissenschaften, Abteilung Agrarpedologie, Germany 2009 - 2010

### Foreign Languages

English, B2 Upper Intermediate

German, B1 Intermediate

### Certificates, Courses and Trainings

Technology Assessment, -İHA - 1 - Sportif Pilotluk Sertifikası, Sivil Havacılık Genel Müdürlüğü, 2020

### Dissertations

Doctorate, INVESTIGATION OF INTERACTIONS BETWEEN SPATIAL DISTRIBUTION OF WIND EROSION AND SOIL SURFACE CONNECTIVITY BY DIRECT MEASUREMENTS AND PREDICTION MODELS, Ankara University, Faculty Of Agriculture, Department Of Agrology And Plant Nutrition, 2021

Postgraduate, Investigation of organic matter, aggregate stability and size distribution of soils treated with different sewage sludge and chemical fertilizer doses in yeşilhisar artificial pasture, Ankara University, Faculty Of Agriculture, Toprak Bilimi Ve Bitki Besleme, 2014

## Research Areas

Agricultural Sciences, Agriculture, Soil and Plant Feed, Soil Physics (moisture and hydromechanics, gas content, thermal phenomena)

## Academic Titles / Tasks

Research Assistant, Erciyes University, Ziraat Fakültesi, Toprak Bilimi Ve Bitki Besleme Bölümü, 2011 - Continues

## Courses

Soil Physics, Undergraduate, 2020 - 2021

Soil Science, Undergraduate, 2020 - 2021

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

- I. **Machine learning and computer vision technology to analyze and discriminate soil samples**  
KAPLAN S., Ropelewska E., Guenaydin S., SABANCI K., ÇETİN N.  
SCIENTIFIC REPORTS, vol.14, no.1, 2024 (SCI-Expanded)
- II. **Assessing the performance of wind erosion prediction models of RWEQ and SWEEP by direct measurements in an arid region**  
KAPLAN S., BAŞARAN M., ERPUL G.  
Soil and Tillage Research, vol.240, 2024 (SCI-Expanded)
- III. **Spatially and temporally assessing event-based wind erosion in adjacent plots of fallow and wheat cultivation in the Central Anatolia, Turkey**  
UZUN O., KAPLAN S., Ince K., BAŞARAN M., Erpul G.  
ARCHIVES OF AGRONOMY AND SOIL SCIENCE, vol.68, no.5, pp.661-675, 2022 (SCI-Expanded)
- IV. **Spatio-temporal investigation of surface soil hardness on professional football field**  
Biraderoğlu M., Kaplan S., Başaran M.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.2, pp.1-13, 2020 (SCI-Expanded)
- V. **Spatial and quantitative assessment of wind erosion from adjacent dunes with different surface cover ratios**  
KAPLAN S., BAŞARAN M., UZUN O., Nouri A., Youssef F., Saygin S. D., Ozcan A. U., Erpul G.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.192, no.2, 2020 (SCI-Expanded)
- VI. **HEAVY METAL, NITROGEN AND PHOSPHORUS ADSORPTION OF COMPACTED LINER MIXTURES**  
GÖKALP Z., TAŞ İ., UZUN O., KAPLAN S., BAŞARAN M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.2, pp.765-770, 2018 (SCI-Expanded)
- VII. **Tillage-induced Wind Erosion in Semi-arid Fallow Lands of Central Anatolia, Turkey**  
BAŞARAN M., UZUN O., KAPLAN S., GORMEZ F., Erpul G.  
SOIL AND WATER RESEARCH, vol.12, no.3, pp.144-151, 2017 (SCI-Expanded)
- VIII. **Spatial distribution of wind-driven sediment transport rate in a fallow plot in Central Anatolia, Turkey**  
UZUN O., KAPLAN S., BAŞARAN M., Saygin S. D., Youssef F., Nouri A., Ozcan A. U., Erpul G.  
ARID LAND RESEARCH AND MANAGEMENT, vol.31, no.2, pp.125-139, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **SPATIAL DISTRIBUTION OF SOIL SALINITY AND SODICITY IN A SEMI-ARID CLOSED DEVELI PLAIN OF**

## TÜRKİYE

Ünlükara A., İrik H. A., Uğurlu N., Kaplan S., Eymen A., Başaran M.

International Journal of Agricultural and Natural Sciences, vol.15, no.3, pp.297-311, 2022 (Peer-Reviewed Journal)

### II. A Novel Liner Desing to Prevent Groundwater Pollution

Gökalp Z., Taş İ., Uzun O., Şahan S., Kaplan S., Başaran M.

Journal of Agriculture Faculty of Gaziosmanpasa University, vol.34, pp.122-131, 2017 (Peer-Reviewed Journal)

### III. Yeraltı Suyu Kirliliğini Önlemeye Dönük Bariyer Tasarımı

GÖKALP Z., TAŞ İ., UZUN O., ŞAHAN S., KAPLAN S., BAŞARAN M.

Gaziosmanpaşa Üniversitesi Ziraat Fakültesi Dergisi, pp.124-133, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

### I. Compacted Mixture Liners for Constructed Wetland Basins

Gökalp Z., Karaman S., Taş İ., Uzun O., Kaplan S., Şahan S., Başaran M.

3rd ASM International Congress of Agriculture and Environment, Antalya, Turkey, 16 - 18 November 2017, pp.42-43

### II. The Wind Erosion Intensity over Different Land Use in Altınova, Turkey

UZUN O., Kaplan S., ERPUL G., İNCE K., BAŞARAN M.

IMCOFE'xx17, 23 - 25 August 2017

### III. Altın İşletme Faaliyetlerinin Taşınan Tozdaki Ağır Metal İçeriği Üzerine Etkisinin Belirlenmesi

UZUN O., ŞAHAN S., GÜNEŞ A., KAPLAN S., BAŞARAN M., Erpul G.

Toprak ve Su Kaynakları Kongresi,, Kahramanmaraş, Turkey, 1 - 04 September 2015, pp.102

### IV. İntestigation of aggregate stability and size distribution of soils treated with different sewage sludge and chemical fertilizer doses on artificial pasture in Turkey

Kaplan S., Başaran M., Deviren Saygın S., Uzun O., Erpul G.

Desertland II, Conference on Desertification and Land Degradation, Ghent, Belgium, 16 - 17 June 2015, pp.26

### V. Rüzgar Erozyonu Ölçümlerinde Pasif Tuzakların Kullanımı ve Etkinliği

UZUN O., KAPLAN S., BAŞARAN M., Erpul G.

III. Ulusal Toprak ve Su Kaynakları Kongresi, Tokat, Turkey, 22 - 24 October 2014, pp.28-32

### VI. Parçalanma Üzerine Farklı Toprak Tiplerinin Etkileri

Karaca A., Turgay O. C., Farasat S., KAPLAN S.

Ulusal Toprak ve Su Sempozyumu, Ankara, Turkey, 25 - 27 April 2011, pp.167-168

## Metrics

Publication: 17

Citation (WoS): 29

Citation (Scopus): 32

H-Index (WoS): 4

H-Index (Scopus): 4