

## Assoc. Prof. AHMET DEMİR



### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABM-7899-2022

ScopusID: 58584670300

Yoksis Researcher ID: 27710



### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Turkey  
2006 - 2011

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Turkey  
2003 - 2006

Postgraduate, Cukurova University, -----, Matematik Öğretmenliği  
(Tezsiz Yüksek Lisans), Turkey 2002 - 2003

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Yumuşak kil zemin üzerinde güçlendirilmiş stabilize dolguya oturan yüzeysel temellerin analizi, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2011

Postgraduate, Temel mühendisliğinde çekme dayanımının irdelenmesi ve kazıklı temellerin çekme dayanımının analizi, Cukurova University, Fen Bilimleri Enstitüsü, 2006

### Research Areas

Geotechnical, Foundation Engineering, Soil Mechanics, Underground Construction, Deep Excavation, Ground Improvement, Soil Dynamics

### Academic Titles / Tasks

Associate Professor, Cukurova University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2022 - Continues

Associate Professor, Osmaniye Korkut Ata University, Faculty of Engineering, Civil Engineering, 2016 - 2017

Assistant Professor, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Civil Engineering, 2011 -

2016

Research Assistant, Cukurova University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2005 - 2011

Research Assistant, Louisiana State University, Louisiana Transportation Research Center, 2009 - 2010

Research Assistant, Aksaray University, Mühendislik Fakültesi, İnşaat Müh. Böl., 2004 - 2005

## Academic and Administrative Experience

Erasmus Coordinator, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Civil Engineering, 2011 - 2017

Farabi Coordinator, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Civil Engineering, 2011 - 2017

Head of Department, Osmaniye Korkut Ata University, Fine Arts Faculty Of Design And Architecture, Department Of Architecture, 2012 - 2016

Head of Department, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Civil Engineering, 2014 - 2014

Deputy Head of Department, Osmaniye Korkut Ata University, Faculty Of Engineering, Department Of Civil Engineering, 2012 - 2013

## Courses

Zemin Dinamiği , Undergraduate, 2021 - 2022

Temel İnşaatı 1 , Undergraduate, 2021 - 2022

Derin Kazılar ve İksa Sistemleri, Undergraduate, 2021 - 2022

Temel İnşaatı II, Undergraduate, 2021 - 2022

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

- I. **2D Numerical Analysis of Prefabricated Vertical Drains Using Different Matching Methods**  
Théodore A., Demir A., Yildiz A.  
APPLIED SCIENCES-BASEL, vol.14, no.12, 2024 (SCI-Expanded)
- II. **Evaluation of Rockfill Stabilized-Geosynthetics Reinforced Road Base with Repeated Plate Loading Tests**  
Demir A., Ok B., Sarici T.  
APPLIED SCIENCES-BASEL, vol.14, no.7, 2024 (SCI-Expanded)
- III. **Evaluation of Granular Fill Layer Underlain by Soft Clay Soil Using Large Scale Cyclic Plate Loading Tests**  
Demir A., Ok B., Sarici T.  
INTERNATIONAL JOURNAL OF CIVIL ENGINEERING, vol.21, no.11, pp.1853-1865, 2023 (SCI-Expanded)
- IV. **Investigation of construction and demolition materials reinforced by geosynthetics**  
Ok B., Sarici T., Demir A., Talaslioglu T., Yildiz A.  
PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS: ENGINEERING SUSTAINABILITY, vol.176, no.5, pp.285-298, 2023 (SCI-Expanded)
- V. **Bearing capacity of footing supported by geogrid encased stone columns on soft soil**  
Demir A., Sarici T.  
GEOMECHANICS AND ENGINEERING, vol.12, no.3, pp.417-439, 2017 (SCI-Expanded)
- VI. **Uplift response of multi-plate helical anchors in cohesive soil**  
Demir A., Ok B.  
GEOMECHANICS AND ENGINEERING, vol.8, no.4, pp.615-630, 2015 (SCI-Expanded)

- VII. **NEW COMPUTATIONAL MODELS FOR BETTER PREDICTIONS OF THE SOIL-COMPRESSION INDEX**  
Demir A.  
ACTA GEOTECHNICA SLOVENICA, vol.12, no.1, pp.58-69, 2015 (SCI-Expanded)
- VIII. **Field Test of Circular Footings on Reinforced Granular Fill Layer Overlying a Clay Bed**  
Laman M., YILDIZ A., ÖRNEK M., DEMİR A.  
GEOTECHNICAL TESTING JOURNAL, vol.35, no.4, pp.575-585, 2012 (SCI-Expanded)
- IX. **Prediction of bearing capacity of circular footings on soft clay stabilized with granular soil**  
ÖRNEK M., Laman M., DEMİR A., YILDIZ A.  
SOILS AND FOUNDATIONS, vol.52, no.1, pp.69-80, 2012 (SCI-Expanded)
- X. **Experimental and numerical studies of metallic powders subjected to cold isostatic pressing**  
EKŞİ A. K., Laman M., BİRCAN D. A., Demir A.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.102, no.5, pp.572-578, 2011 (SCI-Expanded)
- XI. **Modeling of the angle of shearing resistance of soils using soft computing systems**  
Kayadelen C., Gunaydin O., Fener M., Demir A., Ozvan A.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.9, pp.11814-11826, 2009 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Evaluating of geosynthetics reinforced road base with plate loading tests**  
OK B., DEMİR A., SARICI T., OVALI M.  
Pamukkale University Journal of Engineering Sciences, vol.27, no.6, pp.718-728, 2021 (ESCI)
- II. **Experimental and Numerical Investigation of the Geogrid Wrapping on the Bearing Capacity of the Stone Columns**  
SARICI T., OK B., DEMİR A.  
Eurasian Journal of Engineering Sciences and Technology, vol.1, no.2, pp.84-95, 2017 (Peer-Reviewed Journal)
- III. **Evaluation with Field Tests of Geogrid Reinforcement in Road Base**  
OK B., DEMİR A., SARICI T.  
Eurasian Journal of Engineering Sciences and Technology, vol.1, no.2, pp.74-83, 2017 (Peer-Reviewed Journal)
- IV. **Yapım Yıkım Atıklarının Yol Temellerinde Kullanılabilirliğinin İncelenmesi**  
OK B., DEMİR A.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.7, no.1, pp.224-236, 2017 (Peer-Reviewed Journal)
- V. **Kum Zemine Gömülü Çan Tipi Ankrajların Deneysel Çalışmalar ve Sayısal Analizler ile İncelenmesi**  
DEMİR A., OK B., SARICI T., EROĞLU M.  
Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.32, no.1, pp.9-21, 2017 (Peer-Reviewed Journal)
- VI. **BEARING CAPACITY and BULGING BEHAVIOR of GEOGRID ENCASED STONE COLUMNS**  
DEMİR A., SARICI T.  
Selçuk University Journal of Engineering ,Science and Technology, vol.4, no.2, pp.131-144, 2016 (Peer-Reviewed Journal)
- VII. **Helisel Ankraj Plakalarının Tabakalı Zeminlerdeki Çekme Kapasitelerinin İncelenmesi**  
DEMİR A., OK B.  
Selçuk Üniversitesi Mühendislik Fakültesi, vol.3, no.2, pp.25-38, 2015 (Peer-Reviewed Journal)
- VIII. **Handere Kilinde Su İçeriği ve Kompaksiyon Enerjisinin Mukavemete Etkisi**  
PALALI A., YAŞAR E., DEMİR A.  
Ç.Ü.Müh.Mim.Fak. Dergisi, vol.21, pp.323-332, 2006 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Large scale tests for geogrid reinforced unpaved roads**

DEMİR A., SARICI T., OK B., DEMİR B., KOMUT M., ÇÖMEZ Ş., MERT A.

Proceedings of the 11th International Conference on Geosynthetics, Seoul, South Korea, 16 - 21 September 2018

- II. **Geogridle Güçlendirilmiş Yol Temeli Malzemesinin Tekrarlı Yükler Altındaki Davranışının İncelenmesi**  
OK B., DEMİR A., SARICI T.  
3rd International Soil-Structure Interaction Symposium-Izmir, Turkey, İzmir, Turkey, 18 October 2017, pp.541-552
- III. **Effectiveness of the Geogrid Wrapping on the Bearing Capacity of the Stone Columns**  
SARICI T., OK B., DEMİR A.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, Nevşehir, Turkey, 8 - 10 May 2017, pp.271-280
- IV. **Evaluating Behaviour of Road Base Reinforced with Geosynthetic under Traffic Loads**  
OK B., DEMİR A., SARICI T.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, Nevşehir, Turkey, 8 - 10 May 2017, pp.281-290
- V. **Evaluation of geogrid reinforced unpaved roads using large scale tests**  
SARICI T., DEMİR A., TUTUMLUER E., DEMİR B., GÜNGÖR A. G., EPSİLELİ S. E., ÇÖMEZ Ş., OK B.  
EUROGEO6, Ljubljana, Slovenia, 25 - 28 September 2016, pp.1185-1193
- VI. **An Experimental Study for Uplift Capacity of Anchor Plates Embedded in Sandy Soil**  
SARICI T., OK B., DEMİR A., EROĞLU M.  
International Congress On Advances in Civil Engineering (ACE2016), 21 - 23 September 2016, pp.1-9
- VII. **ZEMİNLERİN MUKAVEMET PARAMETRELERİ ÜZERİNDE KESME KUTUSU DENEYİNİN BOYUT ETKİSİ**  
DEMİR A., SARICI T., OK B., BAĞRIAÇIK B., EPSİLELİ S. E.  
6. Geoteknik Sempozyumu, Adana, Turkey, 26 November 2015
- VIII. **GÜÇLENDİRİLMİŞ TEMEL - ALT TEMELLERİN TEKRARLI YÜKLER ALTINDAKİ PERFORMANSININ DEĞERLENDİRİLMESİ**  
DEMİR A., TUTUMLUER E., BAĞRIAÇIK B., SARICI T., OK B.  
6. Geoteknik Sempozyumu, Adana, Turkey, 26 November 2015
- IX. **GEOGRİDLE GÜÇLENDİRİLMİŞ ESNEK YOL KAPLAMALARIN NÜMERİK OLARAK DEĞERLENDİRİLMESİ**  
ALTAY G., DEMİR A., BAĞRIAÇIK B., LAMAN M., OK B., SARICI T.  
Altuncu Ulusal Geosentetikler Konferansı, İstanbul, Turkey, 29 - 30 May 2014, pp.87-97
- X. **Experimental and Numerical Studies on Behavior of Stone Columns with Geogrid Encasement**  
DEMİR A., SARICI T., BAĞRIAÇIK B., LAMAN M., ALTAY G., OK B.  
International Civil Engineering & Architecture Symposium for Academicians, Antalya, Turkey, 17 - 20 May 2014, pp.25-33
- XI. **Geogridle Güçlendirilmiş Kum İçerisine Gömülü Model Kazıkların Çekme Kapasitesinin Deneysel İncelenmesi**  
BAĞRIAÇIK B., OK B., SARICI T., ALTAY G., DEMİR A., LAMAN M.  
Zemin Mekaniği ve Temel Mühendisliği 2. Özel Konulu Sempozyumu, Antalya, Turkey, 24 - 25 April 2014, pp.145-150
- XII. **GEOGRİD DONATININ CBR DEĞERİNE ETKİSİNİN İNCELENMESİ**  
Bakkaylı M., ÖRNEK M., DEMİR A., TÜREDİ Y.  
5. Geoteknik Sempozyumu, Adana, Turkey, 5 - 07 December 2013, pp.1-11
- XIII. **An experimental study on behaviour of geosynthetic reinforced stonecolumns**  
DEMİR A., SARICI T., LAMAN M., BAĞRIAÇIK B., OK B.  
2nd International Balkans Conference on Challenges of Civil Engineering, BCCCE, Tirane, Albania, 23 - 25 May 2013, pp.832-841
- XIV. **An investigation of uplift behavior of vertical piles embedded in reinforced sand under inclined loads**  
BAĞRIAÇIK B., DEMİR A., LAMAN M., OK B., SARICI T.  
2nd International Balkans Conference on Challenges of Civil Engineering, BCCCE, Tirane, Albania, 23 - 25 May 2013, pp.825-831
- XV. **Settlement Analysis of Geogrid Reinforced Granular Fill Underlain by Clay**  
ÖRNEK M., DEMİR A., LAMAN M., YILDIZ A.

10th International Congress on Advances in Civil Engineering (ACE2012), Ankara, Turkey, 17 - 19 October 2012, pp.1-8

**XVI. Analysis of ring footings using field test results**

DEMİR A., ÖRNEK M., LAMAN M., YILDIZ A.

3rd International Conference on New Developments in Soil Mechanics and Geotechnical Engineering, Nicosia, 28 - 30 June 2012

**XVII. GEOGRİDLE GÜÇLENDİRİLMİŞ TABAKALI ZEMİNLERİN YATAK KATSAYISI MODÜLÜNÜN ARAŞTIRILMASI**

ÖRNEK M., DEMİR A., LAMAN M., YILDIZ A., BAĞRIAÇIK B.

Beşinci Ulusal Geosentetikler Konferansı, İstanbul, Turkey, 24 - 25 May 2012, pp.95-106

**XVIII. KARE TEMEL ALTINDAKİ ZEMİNLERDE OPTİMUM DONATI TABAKASI DERİNLİĞİNİN GERİLME YÖNÜNDEN İNCELENMESİ**

BAĞRIAÇIK B., LAMAN M., DEMİR A.

Beşinci Ulusal Geosentetikler Konferansı, İstanbul, Turkey, 24 - 25 May 2012, pp.115-125

## **Metrics**

Publication: 38

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