

Asst. Prof. TUĞÇE ÖZDAMAR KUL

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-1275-2017

Yoksis Researcher ID: 52678



Education

2012 - 2019	Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Geoteknik (Dr), Turkey
2010 - 2012	Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Geoteknik (YI) (Tezli), Turkey
2008 - 2012	Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey
2007 - 2011	Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey
2006 - 2010	Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

2019	Evaluating the water retention and long-term hydraulic conductivity behavior of geosynthetic clay liners, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Geoteknik (Dr), Doctorate
2012	Geotechnical characterization of Natural Zeolite, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Geoteknik (YI) (Tezli), Postgraduate

Research Areas

Geotechnical, Soil Mechanics, Engineering and Technology

Academic Positions

2024 - Continues	Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
2012 - Continues	Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü

Academic and Administrative Experience

2024 - Continues	Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü
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Courses

Doctorate

2024 - 2025 Ground Improvement

Undergraduate

2024 - 2025 Teknik İngilizce II

2024 - 2025 Teknik İngilizce II

2024 - 2025 Zemin Mekaniği II

2024 - 2025, 2023 -

2024, 2021 - 2022, Zemin İyileştirme Yöntemleri

2020 - 2021

2024 - 2025 Bitirme Projesi

2024 - 2025 Bitirme Projesi

2024 - 2025, 2023 -

2024, 2021 - 2022 Zemin Mekaniği

2024 - 2025, 2021 -

2022 Zemin Mekaniği

2024 - 2025 Teknik İngilizce I

2024 - 2025 Teknik İngilizce I

Associate Degree

2019 - 2020 Zemin Mekaniği II

2019 - 2020 Zemin ve Temel Uygulamaları

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Hydraulic conductivity of geosynthetic clay liners to trona ash leachate: Effects of mass per unit area, bundles of fiber existence, and prehydration conditions**
Demir Sürer A. İ., Özdamar Kul T., Ören A. H.
WASTE MANAGEMENT INDUSTRIAL - RADIOACTIVE - HAZARDOUS, vol.174, pp.351-361, 2024 (SCI-Expanded)
- II. **Barrier performance of geosynthetic clay liners to copper (II) chloride solutions**
ÖREN A. H., Ozturk M., ÖZDAMAR KUL T., Nart Z.
ENVIRONMENTAL GEOTECHNICS, vol.7, no.7, pp.491-500, 2020 (SCI-Expanded)
- III. **Hydration of geosynthetic clay liners (GCLs) on compacted zeolite**
ÖZDAMAR KUL T., ÖREN A. H.
GEOSYNTHETICS INTERNATIONAL, vol.26, no.1, pp.81-91, 2019 (SCI-Expanded)
- IV. **Liquid limit based assessment of geosynthetic clay liners subject to hydration and hydraulic conductivity testings**
ÖZDAMAR KUL T., ÖREN A. H.
GEOTEXTILES AND GEOMEMBRANES, vol.46, no.4, pp.436-447, 2018 (SCI-Expanded)
- V. **Evaluation of the Hydration Method of Geosynthetic Clay Liners in View of Subsoil Conditions**
ÖZDAMAR KUL T., ÖREN A. H.
TEKNİK DERGİ, vol.29, no.3, pp.8385-8409, 2018 (SCI-Expanded)
- VI. **Hydraulic conductivity of compacted zeolites**
ÖREN A. H., ÖZDAMAR KUL T.
WASTE MANAGEMENT & RESEARCH, vol.31, no.6, pp.634-640, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluating the Hydration and Hydraulic Performance of a Geosynthetic Clay Liner (GCL) in Terms of Bentonite Mass per Unit Area**

ÖREN A. H., Taskesti B. E., ÖZDAMAR KUL T.

INTERNATIONAL JOURNAL OF GEOSYNTHETICS AND GROUND ENGINEERING, vol.8, no.2, 2022 (ESCI)

II. Influence of mass per unit area on the hydraulic conductivity of Geosynthetic Clay Liners (GCLs)

POLAT F., ÖZDAMAR KUL T., ÖREN A. H.

Avrupa Bilim ve Teknoloji Dergisi, no.28, pp.1269-1273, 2021 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Kömür Yanma Ürünü Sızıntı Sularına Karşı Geosentetik Kil Örtülerin Bariyer Performansı**
Demir A. İ., Özdamar Kul T., Ören A. H.
Zemin Mekaniği ve Geoteknik Mühendisliği 18. Ulusal Konferansı, Kayseri, Turkey, 29 - 30 September 2022, pp.12-22
- II. **Laboratuvar Tipi İğneleme Aleti ile Üretilen Geosentetik Kil Örtülerin Hidrolik İletkenlikleri**
Polat F., ÖZDAMAR KUL T., ÖREN A. H.
G9 Geosentetikler Konferansı, 23 - 24 June 2022
- III. **Hydraulic conductivity of Geosynthetic Clay Liners, (GCLs) manufactured with laboratory type needle punching equipment**
Demir A. İ., ÖZDAMAR KUL T., ÖREN A. H.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021
- IV. **Influence of mass per unit area on the hydraulic conductivity of Geosynthetic Clay Liners (GCLs)**
POLAT F., ÖZDAMAR KUL T., ÖREN A. H.
1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021
- V. **Hydraulic Conductivity of Geosynthetic Clay Liners (GCLs) Depending on the Mass per Unit Area**
Taşkesti B. E., Özdamar Kul T., Ören A. H.
Second International Conference on Environmental Geotechnology, Recycled Waste Materials, and Sustainable Engineering (EGRWSE), Illinois, United States Of America, 16 - 20 June 2019, pp.1-7
- VI. **Geosentetik Kil Örtü Hidrasyonunu Etkileyen Unsurlar**
ÖZDAMAR KUL T., ÖREN A. H.
Sekizinci Ulusal Geosentetikler Konferansı, İstanbul, Turkey, 16 - 17 May 2019
- VII. **Influence of mass per unit area on the hydration of GCLs over silty sand**
Taskesti B., ÖZDAMAR KUL T., ÖREN A. H.
17th European Conference on Soil Mechanics and Geotechnical Engineering, ECSMGE 2019, Reykjavik, Iceland, 1 - 06 September 2019
- VIII. **Change in swell index of polymer treated bentonites depending on sampling and drying conditions**
ÖZDAMAR KUL T., ÇIRKİN İ., ÖREN A. H.
13th International Congress on Advances in Civil Engineering (ACE 2018), 12 - 14 September 2018
- IX. **Hydraulic conductivity of sodium and polymerized sodium GCLs to CuCl₂ solution**
ÖREN A. H., ÖZTÜRK M., ÖZDAMAR KUL T., NART Z.
2nd Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG2), 6 - 07 September 2017
- X. **Free swell and sediment volumes of GCLs hydrated over silty sand subsoil**
ÖZDAMAR KUL T., ÖREN A. H.
Second International Symposium on Coupled Phenomena in Environmental Geotechnics 2017 (CPEG2), 6 - 07 September 2017
- XI. **Geosentetik Kil Örtü (GKÖ) Hidrasyonunun Alt Zemin Tabakası Tipine Göre İncelenmesi**
ÖZDAMAR KUL T., ÖREN A. H.
7. Ulusal Geosentetikler Konferansı, Turkey, 11 - 12 May 2017
- XII. **Ön İslatma Yönteminin Geosentetik Kil Örtüler in Hidrolik Performansına Etkisi**
ÖZDAMAR KUL T., ÖREN A. H.
ZM-16: Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal Kongresi, Turkey, 13 - 14 October 2016, pp.131-138
- XIII. **Assessment of GCL hydration depending on the subsoil height**

ÖZDAMAR KUL T., ÖREN A. H.

EuroGeo 6, Ljubljana, Slovenia, 25 - 28 September 2016

XIV. Influence of prehydration condition on the hydraulic conductivity of GCLs permeated with landfill leachates

ÖZDAMAR KUL T., DEMİRKIRAN H.

25th European Young Geotechnical Engineers Conference, Sibiu, Romania, 21 - 24 June 2016, pp.417-422

XV. The Hydration of Low- Quality GCL Overlying a Sandy Soil

ÖZDAMAR KUL T., ÖREN A. H.

Geo-Chicago Conference - Sustainability, Energy, and the Environment (Geo-Chicago), Illinois, United States Of America, 14 - 18 August 2016, pp.81-90

XVI. Comparison of the Hydraulic Conductivity of GCLs with That of Bentonitic Mixtures

ÖREN A. H., ÖZDAMAR KUL T., Koc M. E., Demirkiran H.

Geo-Chicago Conference - Sustainability, Energy, and the Environment (Geo-Chicago), Illinois, United States Of America, 14 - 18 August 2016, pp.358-367

XVII. Sızıntı Suyunun Zeolit Hidrolik İletkenliği Üzerine Etkisi

ÖZDAMAR KUL T., ÖREN A. H.

6. Geoteknik Sempozyumu, Turkey, 26 - 28 November 2015, vol.1, pp.1-10

XVIII. Ön ıslatmanın geosentetik kil örtülerin kısa dönem hidrolik iletkenliklerine etkisi

HAVVA D., ÖZDAMAR KUL T., ÖNAL O., ÖREN A. H.

5. Ulusal Katı Atık Yönetimi Kongresi (UKAY-2013), Turkey, 29 - 31 May 2013, vol.1, pp.174-184

XIX. Sıkıştırılmış zeolitlerin hidrolik iletkenlik davranışı

ÖZDAMAR KUL T., ÖREN A. H.

Zemin Mekaniği ve Temel Mühendisliği 14. Ulusal Kongresi, Turkey, 4 - 05 October 2012

XX. Sıkıştırılmış zeolitlerin kayma dayanımı özellikleri

ÖREN A. H., ÖZDAMAR KUL T.

15. Ulusal Kil Sempozyumu, Turkey, 19 - 22 September 2012, vol.1, pp.359-365

XXI. Sıkıştırılmış zeolitlerin hidrolik iletkenlikleri

ÖZDAMAR KUL T., ÖREN A. H.

14. Ulusal Zemin Mekaniği ve Temel Mühendisliği Kongresi, Turkey, 4 October - 05 September 2012, vol.1, pp.211-218

Funded Projects

2023 - 2025	Modifiye Edilmiş Esnek Duvarlı Permametre İle Geosentetik Kil Örtülerin (GKÖ) Hidrolik İletkenlik Deneyi Sırasında Şişme Davranışının Belirlenmesi, TUBITAK Project
2019 - 2023	Birim Alan Başına Bentonit Kütlesinin Geosentetik Kil Örtülerin (GKÖ) Hidrasyonuna, Şişme İndisine, Hidrolik İletkenliğine Etkisinin Belirlenmesi." Tübitak 1001 Araştırma Projesi, TUBITAK Project
2012 - 2015	Geosentetik Kil Örtülerin Hidrolik İletkenliklerinin Araştırılması ve Üretimine Dönük Uygun Bentonitlerin Belirlenmesi, TUBITAK Project
2012 - 2015	Kum Bentonit ve Zeolit Bentonit Karışımlarının Hidrolik İletkenlik Davranışlarının Atık Depolama Alanı Uygulamaları İçin Araştırılması, Project Supported by Higher Education Institutions

Peer Reviews in Scientific Publications

November 2022	GROUND IMPROVEMENT, SCI Journal
February 2022	Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal
January 2022	Çukurova Üniversitesi Mühendislik Fakültesi dergisi, National Scientific Refreed Journal
January 2022	Uluslararası Mühendislik Araştırma ve Geliştirme Dergisi, National Scientific Refreed Journal

December 2020	Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal
July 2020	Sinop Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal
February 2020	SEPARATION SCIENCE AND TECHNOLOGY, SCI Journal
November 2019	Firat Üniversitesi Mühendislik Bilimleri Dergisi, National Scientific Refreed Journal
October 2019	SEPARATION SCIENCE AND TECHNOLOGY, Journal Indexed in SCIE
August 2019	Avrupa Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal

Roles in Event Organizations

15 Eylül 2022	Yükselen Aksoy Y., Özden G., Ören A. H., Önal O., Kuruoğlu M., Özdamar Kul T., 3. International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering (EGRWSE-2022), Scientific Congress, İzmir, Turkey
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Metrics

Publication: 30
Citation (WoS): 48
Citation (Scopus): 58
H-Index (WoS): 4
H-Index (Scopus): 4

Congress and Symposium Activities

2025	Deprem ve Yapı Günleri-Bilimle Güçlenen Yapılarla Depreme Dirençli Kentler Paneli, Audience, İzmir, Turkey
2024	19. Ulusal Zemin Mekaniği ve Geoteknik Mühendisliği Konferansı, Attendee, Ankara, Turkey
2024	Sıfır Atık Farkındalık Eğitimi, Attendee, İzmir, Turkey
2023	SUSTAIN-CE Final Conference on Sustainability and Circular Economy in Civil Engineering Education, Attendee, İzmir, Turkey
2022	3th Third International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainability Engineering (EGRWSE 2022), Working Group, İzmir, Turkey
2021	1st International Conference on Applied Engineering and Natural Sciences (ICAENS 2021), Attendee, Konya, Turkey
2019	The XVII European Conference on Soil Mechanics and Geotechnical Engineering, XVII ECSMGE, Attendee, Reykjavik, Iceland
2019	G-8:Sekizinci Ulusal Geosentetikler Konferansı, Attendee, İstanbul, Turkey
2018	11th International Conference on Geosynthetics (11ICG), Attendee, Seoul, South Korea
2018	13th International Congress on Advances in Civil Engineering (ACE2018), Attendee, İzmir, Turkey
2017	International Symposium on Coupled Phenomena in Environmental Geotechnics (CPEG2), Attendee, Leeds, England
2017	7th National Geosynthetics Conference, Attendee, İstanbul, Turkey
2016	16th National Conference on Soil Mechanics and Geotechnical Engineering, Attendee, Erzurum, Turkey
2016	6th European Geosynthetics Congress (EuroGeo6), Attendee, Ljubljana, Slovenia
2016	Geo-Chicago 2016: Sustainability, Energy and Geoenvironment, Attendee, Illinois, United States Of America
2016	25th European Young Geotechnical Engineers Conference, Attendee, Sibiu, Romania

2015	6th Geotechnique Symposium, Attendee, Adana, Turkey
2012	14th National Conference on Soil Mechanics and Foundation Engineering, Attendee, Isparta, Turkey
2012	1st International Ankara Geosynthetics Symposium, Attendee, Ankara, Turkey

Invited Talks

January 2023	Deprem Farkındalığı, Seminar, Özel Karşıyaka Sınav Koleji İlkokulu, Turkey
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Artistic Activity

October 2017	ÖZDAMAR KUL T., 3rd International Soil-Structure Interaction Symposium
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