



Personal Information

Office Phone: [+90 312 582 3204](tel:+903125823204)

Email: kaanyunkul@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/11951>

Address: Gazi Üniversitesi Mühendislik Fakültesi İnşaat Mühendisliği Bölümü, Celal Bayar Bulvarı, 06570, Maltepe – Ankara.

International Researcher IDs

ScholarID: HLwf8kcAAAAJ

ORCID: 0000-0003-1264-237X

Publons / Web Of Science ResearcherID: AAT-2307-2020

ScopusID: 57214317964

Yoksis Researcher ID: 247647

Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2019 - 2024

Postgraduate, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2016 - 2019

Undergraduate, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 2010 - 2015

Certificates, Courses and Trainings

Quality Management, Kalite Eğitimleri, Gazi University, 2022

Dissertations

Doctorate, THE DETERMINATION OF THE SEISMIC BEHAVIOR OF POLYMERIC GEOSTRIP REINFORCED EARTH WALLS, Gazi University, Fen Bilimleri Enstitüsü, -, 2024

Postgraduate, Investigation of uplift behaviour of horizontal shallow plate anchors reinforced with geocells in cohesionless soil, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2019

Research Areas

Civil Engineering, Geotechnical, Foundation Engineering, Soil Mechanics, Deep Excavation, Ground Improvement, Engineering and Technology

Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2016 - Continues

Research Assistant, Tokat Gaziosmanpaşa University, Faculty Of Engineering And Natural Sciences, 2016 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Parameters affecting performance of fully instrumented model testing of strip footings on geocell-reinforced soils**
Demirdogen S., GÜRBÜZ A., Yüncül K.
GEOTEXTILES AND GEOMEMBRANES, vol.52, no.6, pp.1191-1206, 2024 (SCI-Expanded)
- II. **A new semi-empirical bearing capacity calculation method for geocell reinforcement in foundations**
Demirdogen S., GÜRBÜZ A., Yüncül K.
Transportation Geotechnics, vol.49, 2024 (SCI-Expanded)
- III. **Force distribution on polymeric geostrip reinforcements in MSE walls under seismic excitation**
Yüncül K., Gürbüz A.
Journal of Reinforced Plastics and Composites, vol.43, no.21-22, pp.1272-1290, 2024 (SCI-Expanded)
- IV. **Numerical Simulation of Polymeric Strap Material Reinforced Walls Under Seismic Excitation**
Yüncül K., Gürbüz A.
Transportation Research Record, vol.2678, no.10, pp.1181-1204, 2024 (SCI-Expanded)
- V. **Performance of eccentrically loaded strip footings on geocell-reinforced soil**
Demirdöğen S., Gürbüz A., Yüncül K.
Geotextiles and Geomembranes, vol.52, no.4, pp.421-434, 2024 (SCI-Expanded)
- VI. **Determination of shear stress-shear strain behavior of polymeric geostrip reinforced MSE wall**
Yüncül K., Gürbüz A.
Geotextiles and Geomembranes, vol.52, no.2, pp.184-195, 2024 (SCI-Expanded)
- VII. **3D-printed geocells in footing systems: A comprehensive physical and numerical studies on scaling and performance under centric and eccentric loading scenarios**
Demirdöğen S., Gürbüz A., Yüncül K.
Transportation Geotechnics, vol.45, 2024 (SCI-Expanded)
- VIII. **Seismic performance of gravity retaining walls**
Yüncül K., Gürbüz A.
Earthquake Engineering and Structural Dynamics, vol.52, no.6, pp.1635-1657, 2023 (SCI-Expanded)
- IX. **Shaking table study on seismic behavior of MSE wall with inclined backfill soils reinforced by polymeric geostrips**
Yüncül K., Gürbüz A.
GEOTEXTILES AND GEOMEMBRANES, vol.50, no.1, pp.116-136, 2022 (SCI-Expanded)
- X. **Uplift behavior of shallow horizontal plate anchors reinforced with geocells in cohesionless soil**
Yüncül K., Gürbüz A.
European Journal of Environmental and Civil Engineering, vol.26, no.4, pp.1243-1266, 2022 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Research on the Competences of Civil Engineering Students in Departments: Current Situation, Problems and Solution**
Karaçor F., Yüncül K., Erdağ A.
Avrupa Bilim ve Teknoloji Dergisi, vol.31, pp.545-552, 2021 (Peer-Reviewed Journal)
- II. **Numerical Analysis of Geocell Reinforced Square Shallow Horizontal Plate Anchor**
Yüncül K., Usluogullari O. F., Gürbüz A.
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, vol.39, no.4, pp.3081-3099, 2021 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **İSTİNAT (KLASİK KONSOL VE TOPRAKARME) DUVARLARINA ETKİYEN DİNAMİK YÜKLERİNİN BELİRLENMESİ**
Gürbüz A., Yüncül K.

ON YILIN ARDINDAN ULUSAL DEPREM ARAŞTIRMA PROGRAMI (UDAP) ÇALIŞTAYI, Ankara, Turkey, 23 November - 24 December 2023, pp.46-51

II. INVESTIGATION OF THE UPLIFT CAPACITY OF HORIZONTAL STRIP PLATE ANCHORS IN SLOPE
Yünkül K.

Zemin Mekaniği ve Geoteknik Mühendisliği 18. Ulusal Konferansı, Kayseri, Turkey, 29 - 30 September 2022, pp.337-346

III. THE INVESTIGATION UPLIFT BEHAVIOUR OF SHALLOW HORIZONTAL PLATE ANCHOR REINFORCED WITH GEOCELL IN COHESIONLESS SOIL

Yünkül K., Gürbüz A.

8. Uluslararası Geoteknik Sempozyumu, İstanbul, Turkey, 13 - 15 November 2019, pp.591-600

IV. Determination of effect of cellular elements (geocell) on the uplift capacity of horizontal anchors

Yünkül K., Gürbüz A.

International Congress on Engineering and Arhitecture, Antalya, Turkey, 14 - 16 November 2018, pp.49-62

V. Hücresel Elemanlarda (Geocell) Gerilme Yayılım Açılarının Nümerik Yöntemlerle Belirlenmesi

Yünkül K.

International Congress on Engineering and Arhitecture, Antalya, Turkey, 14 - 16 November 2018, pp.215-224

VI. Use of Geocells and Working Mechanism

Yünkül K., Gürbüz A.

Ist International Symposium on Innovative Approaches in Scientific Studies, Antalya, Turkey, 11 - 13 April 2018, vol.2, pp.354-360

VII. İnşaat Mühendisliği Öğrencilerinin Bitirme Projelerinin Öğrenci Tercihleri ve Önem Derecesine Göre Değerlendirilmesi

Kaya N., Yünkül K., Çiçek C. T.

4. İNŞAAT MÜHENDİSLİĞİ EĞİTİMİ SEMPOZYUMU, İzmir, Turkey, 17 - 18 November 2017, pp.161-174

Supported Projects

Gürbüz A., Project Supported by Other Official Institutions, İSTİNAT (KLASİK KONSOL VE TOPRAKARME) DUVARLARINA ETKİYEN DİNAMİK YÜKLERİNİN BELİRLENMESİ (UDAP-Ç-19-08), 2019 - 2022

Memberships / Tasks in Scientific Organizations

International Geosynthetics Society (IGS), Member, 2019 - Continues, United States Of America

Soil Mechanics and Geotechnical Engineering Association, Member, 2018 - Continues, Turkey

İnşaat Mühendisleri Odası, Member, 2016 - Continues, Turkey

Scientific Refereeing

Sciennovation, National Scientific Refreed Journal, September 2023

GEOTECHNICAL AND GEOLOGICAL ENGINEERING AN INTERNATIONAL JOURNAL, Journal Indexed in ESCI, October 2022

sciennovation, National Scientific Refreed Journal, August 2021

Metrics

Publication: 19

Citation (WoS): 48

Citation (Scopus): 66

H-Index (WoS): 3

H-Index (Scopus): 4

Scholarships

Determination of the Dynamic Loads Acting on the Retaining (Traditional and MSE) Walls, Other Government Agencies, 2019 - 2022

Awards

Yünkül K., Researcher Incentive Award, Earthquake Engineering Association Of Turkey, November 2023

Yünkül K., Gazi Üniversitesi Mühendislik Fakültesi Bölüm Üçüncülüğü, Gazi Üniversitesi, June 2016