

# Prof. YÜKSEL YILMAZ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: A-4694-2013

ScopusID: 56269146000

Yoksis Researcher ID: 48597

## Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (Dr), Turkey 2001 - 2006

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği (YI) (Tezli), Turkey 1997 - 2000

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Civil Engineering, Turkey 1992 - 1996

## Foreign Languages

English, C1 Advanced

## Research Areas

Civil Engineering

## Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, 2017 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2011 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2009 - 2011

Assistant Professor, Kirikkale University, Faculty Of Engineering, Department Of Civil Engineering, 2007 - 2009

Research Assistant, Gazi University, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 1998 - 2006

## Courses

İleri Zemin Mekaniği II, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

Zemin Mekaniği II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

İleri Zemin Mekaniği I, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Zemin Mekaniği I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Temel Mühendisliği I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

ZEMİN MEKANİĞİ II, Postgraduate, 2017 - 2018, 2016 - 2017  
ZEMİN MEKANİĞİ I, Postgraduate, 2017 - 2018, 2016 - 2017  
TEMEL MÜHENDİSLİĞİ II (İÖ), Postgraduate, 2017 - 2018, 2016 - 2017

## Advising Theses

YILMAZ Y., Doyurma basıncı ve su sıcaklığının örselenmiş bir kil zeminin drenajsız kayma dayanımına etkisinin araştırılması, Postgraduate, E.KHASHABI(Student), 2019  
YILMAZ Y., Toprak şevlerin stabilite analizine yönelik grafik çözümlerin incelenmesi, Postgraduate, F.BEGÜM(Student), 2019  
YILMAZ Y., Kızılcahamam atıksu arıtma tesisi jet grout kolon temel sisteminin imalatı ve performansı, Postgraduate, O.ÇELİK(Student), 2019  
YILMAZ Y., Construction And Performance Of Kızılcahamam Wastewater Treatment Plant Jet Grout Column Foundation System, Postgraduate, O.Çelik(Student), 2019  
YILMAZ Y., A Review Of Chart Solutions For Stability Analysis Of Earth Slopes, Postgraduate, F.Begüm(Student), 2019  
YILMAZ Y., Sıkıştırılmış ara zeminlerin drenajlı ve drenajsız kayma dayanımı parametrelerinin ilişkilendirilmesi, Postgraduate, M.İRŞAD(Student), 2017  
YILMAZ Y., Investigating The Correlation Between The Drained And Undrained Shear Strength Parameters Of Compacted Soils, Postgraduate, M.İrşad(Student), 2017  
YILMAZ Y., Design of conduit systems through roller compacted concrete (RCC) dam, Postgraduate, M.MURAT(Student), 2014  
YILMAZ Y., Geotechnical properties of Koper Port (Slovenia) dredge mud-sand mixtures, Postgraduate, A.Pellumbi(Student), 2014  
YILMAZ Y., The experimental research of combined effect of various dispersive agents and cement on undrained shear strength of high plasticity clayey soil, Postgraduate, B.CEYLAN(Student), 2014  
YILMAZ Y., Experimental investigation of the pull out capacity of model soil nails in granular soils, Postgraduate, K.AKÇAY(Student), 2014  
YILMAZ Y., The comparison of empirically and theoretically calculated pile settlement with full scale pile load test findings, Postgraduate, G.SALİHİ(Student), 2014  
YILMAZ Y., Investigation of the effect of different saturation methods on the undrained shear strength of a compacted clayey soil, Postgraduate, A.BAHARİ(Student), 2014  
YILMAZ Y., Experimental investigation of the effect of height-diameter ratio on the unconfined compressive strength of a clayey soil, Postgraduate, S.SALEHI(Student), 2014  
YILMAZ Y., The investigation of effect of a possible local weak zone under an earthfill dam on the displacement-stress behavior of the dam, Postgraduate, G.İLTER(Student), 2014  
YILMAZ Y., Unconfined compressive strength of compacted fly ash and CL class clay mixture at standard and modified proctor energy levels, Postgraduate, O.YILMAZ(Student), 2013  
YILMAZ Y., Unconfined compressive strength properties of various dispersing agents and cement stabilized clay, Postgraduate, A.GÖREN(Student), 2013  
YILMAZ Y., Investigation of unconfined compressive strength of cement mixed sand compacted under various static pressures, Postgraduate, V.BARZEGARI(Student), 2013  
YILMAZ Y., Türkiye'deki dolgu barajların geçirimsiz çekirdek bölgelerinde kullanılan malzemelerin geoteknik zemin özelliklerinin istatistiksel değerlendirmesi, Postgraduate, F.ÇETİN(Student), 2009  
YILMAZ Y., Polipropilen fiber ve uçucu kül katkılı ankara kilinin geoteknik özelliklerinin araştırılması, Postgraduate, Ü.SEVENCAN(Student), 2009  
YILMAZ Y., Değişik oranlarda kum içeren örselenmiş Ankara kilinin serbest basınç dayanımı ile direkt çekme dayanımının ilişkilendirilmesi, Postgraduate, T.ALAGÖZ(Student), 2008

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

- I. **Prediction of resilient modulus with pre-post experimental data of undisturbed subgrade soils using machine learning algorithms**  
Ozkaynak M. I., YILMAZ Y.  
Transportation Geotechnics, vol.49, 2024 (SCI-Expanded)
- II. **Enhancing bonding performance in two-layer roller-compacted concrete pavements: Bridging laboratory insights with field performance**  
Güngör A. G., ŞENGÜN E., YILMAZ Y., YAMAN İ. Ö.  
Construction and Building Materials, vol.418, 2024 (SCI-Expanded)
- III. **Hydro-Mechanical Behaviour of a Rainfall-Induced Landslide by Instrumental Monitoring: Landslide-Rainfall Threshold of the Western Black Sea Bartin Region of Türkiye**  
TAŞKIRAN T., Alli S., YILMAZ Y.  
Applied Sciences (Switzerland), vol.13, no.15, 2023 (SCI-Expanded)
- IV. **Strength-dilatancy and critical state behaviours of binary mixtures of graded sands influenced by particle size ratio and fines content**  
YILMAZ Y., Deng Y., Chang C. S., GÖKÇE A.  
Geotechnique, vol.73, no.3, pp.202-217, 2023 (SCI-Expanded)
- V. **Influence of particle size on the drained shear behavior of a dense fluvial sand**  
Deng Y., YILMAZ Y., GÖKÇE A., Chang C. S.  
ACTA GEOTECHNICA, vol.16, no.7, pp.2071-2088, 2021 (SCI-Expanded)
- VI. **Mechanical Behaviour of Atrazine-Contaminated Clay**  
Keramatikerman M., Chegenizadeh A., Nikraz H., YILMAZ Y.  
APPLIED SCIENCES-BASEL, vol.10, no.7, 2020 (SCI-Expanded)
- VII. **Effects of height-to-diameter ratio (H/D) for specimens with various water contents on unconfined compressive strength of a clayey soil**  
YILMAZ Y., Eun J., Panahi S. S., Mousavi M. S.  
ENGINEERING GEOLOGY, vol.257, 2019 (SCI-Expanded)
- VIII. **Use of Standard and Off-Spec Fly Ashes for Soil Stabilization**  
YILMAZ Y., Coban H. S., Cetin B., Edil T. B.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.31, no.2, 2019 (SCI-Expanded)
- IX. **Individual and combined effect of Portland cement and chemical agents on unconfined compressive strength for high plasticity clayey soils**  
YILMAZ Y., Eun J., Goren A.  
GEOMECHANICS AND ENGINEERING, vol.16, no.4, pp.375-384, 2018 (SCI-Expanded)
- X. **Effect of Lime Treatment on Static Liquefaction Behavior of Sand-Bentonite Mixtures**  
Keramatikerman M., Chegenizadeh A., YILMAZ Y., Nikraz H.  
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.30, no.11, 2018 (SCI-Expanded)
- XI. **Compressive strength characteristics of cement treated sand prepared by static compaction method**  
YILMAZ Y., Cetin B., Kahnemouei V. B.  
GEOMECHANICS AND ENGINEERING, vol.12, no.6, pp.935-948, 2017 (SCI-Expanded)
- XII. **Compaction and strength characteristics of fly ash and fiber amended clayey soil**  
YILMAZ Y.  
ENGINEERING GEOLOGY, vol.188, pp.168-177, 2015 (SCI-Expanded)
- XIII. **Compaction and shear strength characteristics of colemanite ore waste modified active belite cement stabilized high plasticity soils**  
YILMAZ Y., Ozaydin V.  
ENGINEERING GEOLOGY, vol.155, pp.45-53, 2013 (SCI-Expanded)
- XIV. **Engineering Properties of Medium-to-Fine Sands Injected with Microfine Cement Grout**  
MOLLAMAHMUTOĞLU M., YILMAZ Y.  
MARINE GEORESOURCES & GEOTECHNOLOGY, vol.29, no.2, pp.95-109, 2011 (SCI-Expanded)
- XV. **Pre- and post-cyclic loading strength of silica-grouted sand**

Mollamahmutoglu M., Yilmaz Y.

Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, vol.163, no.6, pp.343-348, 2010 (SCI-Expanded)

**XVI. Characterization of liquefaction susceptibility of sands by means of extreme void ratios and/or void ratio range**

Yilmaz Y., Mollamahmutoglu M.

Journal of Geotechnical and Geoenvironmental Engineering, vol.135, no.12, pp.1986-1990, 2010 (SCI-Expanded)

**XVII. Experimental investigation of the strength properties of sand-clay mixtures reinforced with randomly distributed discrete polypropylene fibers**

YILMAZ Y.

GEOSYNTHETICS INTERNATIONAL, vol.16, no.5, pp.354-363, 2009 (SCI-Expanded)

**XVIII. Experimental investigation of the effect of grading characteristics on the liquefaction resistance of various graded sands**

Yilmaz Y., Mollamahmutoglu M., Ozaydin V., Kayabali K.

Engineering Geology, vol.100, pp.91-100, 2008 (SCI-Expanded)

**XIX. Potential use of fly ash and bentonite mixture as liner or cover at waste disposal areas**

Mollamahmutoglu M., Yilmaz Y.

ENVIRONMENTAL GEOLOGY, vol.40, pp.1316-1324, 2001 (SCI-Expanded)

## Articles Published in Other Journals

**I. Effect of a Class C Fly Ash on the Geotechnical Properties of an Expansive Soil**

MOLLAMAHMUTOĞLU M., YILMAZ Y., AHMET GÜRKAN G.

KU International Journal of Research and Development, vol.1, no.1, pp.1-5, 2009 (Peer-Reviewed Journal)

**II. Grouting Performance of Microfine Cement and Silica Fume Mix into Sands**

MOLLAMAHMUTOĞLU M., YILMAZ Y., KUTLU İ.

Journal Of Astm International, vol.4, no.4, pp.100462, 2007 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**I. Investigation of The Hydro-Mechanical Behavior of Landslides Triggered by Rainfall**

Taşkıran T., Yılmaz Y., Alı S.

12. Uluslararası Bilimsel Araştırmalar Kongresi, Ankara, Turkey, 17 - 18 December 2021, pp.361-370

**II. Compressive Strength for High Plasticity Clayey Soil Mixed with Cement and Dispersive Agents**

YILMAZ Y., Eun J., GÖREN A.

The 5th International Grouting Conference, GROUTING 2017, 9 - 12 July 2017

**III. Evaluation of Unconfined Compressive Strength for High Plasticity Clayey Soil Mixed with Cement and Dispersive Agents**

YILMAZ Y., Eun J., Goren A.

5th International Conference on Grouting, Deep Mixing, and Diaphragm Walls, Hawaii, United States Of America, 9 - 12 July 2017, pp.270-279

**IV. Teorik ve ampirik yaklaşımlarla elde edilen kazık oturma değerlerinin arazi yükleme deneyi sonuçları ile kıyaslanması**

salihi g., YILMAZ Y., Tonyalı İ.

6. Geoteknik Sempozyumu, Turkey, 26 - 27 November 2015

**V. Investigation of the effect of a polypropylene fiber material on the shear strength and CBR characteristics of high plasticity Ankara clay**

Mollamahmutoglu M., YILMAZ Y.

8th International Conference on the Bearing Capacity of Roads, Railways and Airfields, BCR2A'09, Champaign, IL,

United States Of America, 29 June - 02 July 2009, vol.2, pp.1113-1116

- VI. **Investigation of the effect of a polypropylene fiber material on the shear strength and CBR characteristics of high plasticity Ankara clay**  
Mollamahmutoğlu M., Yılmaz Y.  
8th International Conference on the Bearing Capacity of Roads, Railways and Airfields, Illinois, United States Of America, 29 June - 02 July 2009, pp.1113-1116
- VII. **Fine gravel content effect on the undrained shear strength characteristics of highly plastic clayey soil**  
MOLLAMAHMUTOĞLU M., YILMAZ Y.  
2nd International Conference on New Developments in Soil Mechanics and Geotechnical Engineering, 28 - 30 May 2009
- VIII. **The effect of F type polyfiber material ON some geotechnical properties of Ankara Clay**  
Mollamahmutoğlu M., Yılmaz Y., Özdemir A.  
Proceedings - EuroGeo 4, the Fourth European Geosynthetics Conference, Edinburgh, United Kingdom, 7 - 10 September 2008, pp.261
- IX. **Sıvılaşmaya Karşı Bina Temelinde ve/veya Zeminde Uygulanan iyileştirme Yöntemlerinin Laboratuvar Model Çalışmaları**  
Mollamahmutoğlu M., Yılmaz Y.  
1. Geoteknik Sempozyumu, Adana, Turkey, 26 - 27 October 2010, pp.123-134
- X. **Stabilization of Expansive Soils of Bursa (Turkey) Region Highway Fills Using Fly Ash**  
Mollamahmutoğlu M., Yılmaz Y., Güngör A. G.  
Proceedings of International Conference on Problematic Soils, Gazimagusa, Cyprus (Kkct), 25 - 27 May 2005, pp.817-824
- XI. **Sıvılaşma Kökenli Göçmelere Bina Tasarımlarının Etkisi Üzerine Laboratuvar Model Çalışmaları**  
Mollamahmutoğlu M., Yılmaz Y.  
ZM-9, İstanbul, Turkey, 1 - 04 May 2005, pp.349-352
- XII. **Laboratory model studies to investigate the effect of building planning on the liquefaction related failures**  
Mollamahmutoğlu M., Yılmaz Y.  
Proceedings of the International Conference on New Developments in Soil Mechanics and Geotechnical Engineering, Lefkoşa, Cyprus (Kkct), 29 - 31 May 2003, pp.213-218

## Supported Projects

YILMAZ Y., Project Supported by Higher Education Institutions, KİLLİ ZEMİNLERİN HİDROLİK İLETKENLİKLERİ ÜZERİNE NUMUNE BOYUTUNUN VE NUMUNE ALMA YÖNÜNÜN ETKİSİNİN DENEYSEL OLARAK ARAŞTIRILMASI, 2011 - 2015

YILMAZ Y., Project Supported by Higher Education Institutions, Killi zeminlerde kompaksiyon (Sıkıştırma) enerjisinin CBR ve Mukavemet parametrelerine etkisinin araştırılması, 2010 - 2011

## Metrics

Publication: 34

Citation (WoS): 493

Citation (Scopus): 552

H-Index (WoS): 11

H-Index (Scopus): 12