

Prof. Pelin ÖZENER

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International Researcher IDs

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Publons / Web Of Science ResearcherID: FPT-8366-2022

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Education Information

Post Doctorate, University of Washington, Civil and Environmental Engineering, Civil Engineering, United States Of America 2011 - 2012

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2001 - 2007

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, İnşaat Mühendisliği, Turkey 1998 - 2001

Undergraduate, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey 1994 - 1998

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Depremde Tabakalı Kum Zeminde Oluşan Sıvılaşma ve Sıvılaşma Sonrası Davranışın Model Deneyle Araştırılması, Yıldız Teknik Üniversitesi, İnşaat Mühendisliği, Geoteknik, 2007

Postgraduate, Dolgu Altındaki Killi Zeminlerin Permeabilite Karakteristiklerinin Belirlenmesi, Yıldız Teknik Üniversitesi, İnşaat Mühendisliği, Geoteknik, 2001

Research Areas

Civil Engineering, Geotechnical, Foundation Engineering, Soil Mechanics, Ground Improvement, Soil Dynamics, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Civil Engineering, Civil Engineering Department, 2015 - Continues

Courses

İSTİNAT YAPI TASARIMI, Undergraduate, 2020 - 2021

TEMEL İNŞAATI, Undergraduate, 2019 - 2020

Zemin Mekaniği, Undergraduate, 2019 - 2020

Advising Theses

ÖZENER P., Experimental Investigation of Behavior of High Modulus Columns in Sandy Soils, Doctorate, A.Younus(Student), Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Liquefaction and performance of foundation systems in Iskenderun during 2023 Kahramanmaraş-Türkiye earthquake sequence**
Özener P., Monkul M. M., Bayat E. E., Ari A., Çetin K. Ö.
Soil Dynamics and Earthquake Engineering, vol.178, 2024 (SCI-Expanded)
- II. **Examining the Role of Liquefiable Layer Thickness and Depth on the Seismic Lateral Response of Piles through Numerical Analyses**
ARİ A., Demir S., ÖZENER P.
International Journal of Geomechanics, vol.23, no.5, 2023 (SCI-Expanded)
- III. **Unsaturated soil properties of a high compacted fill with settlement monitoring system**
Ameen A., Özener P.
Computers and Electrical Engineering, vol.104, 2022 (SCI-Expanded)
- IV. **Geotechnical reconnaissance findings of the October 30 2020, Mw7.0 Samos Island (Aegean Sea) earthquake**
Ziotopoulou K., Cetin K. O., Pelekis P., Altun S., Klimis N., Sezer A., Rovithis E., Yilmaz M. T., Papadimitriou A. G., Gulerce Z., et al.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.14, pp.7819-7852, 2022 (SCI-Expanded)
- V. **Effect of shear strain compatibility and incompatibility approaches in the design of high modulus columns against liquefaction: A case study in Christchurch, New Zealand**
Demir S., ÖZENER P.
BULLETIN OF EARTHQUAKE ENGINEERING, vol.20, no.11, pp.5721-5745, 2022 (SCI-Expanded)
- VI. **Depolanmış Tarama Çamurlarının Sıkışabilirlik ve Mukavemet Davranışının Laboratuvar ve Arazi Deneyleri ile İncelenmesi**
BİÇER P., KILIÇ H., ÖZENER P.
TEKNIK DERGI/TECHNICAL JOURNAL OF TURKISH CHAMBER OF CIVIL ENGINEERS, vol.32, no.1, pp.10515-10539, 2021 (SCI-Expanded)
- VII. **Parametric investigation of effectiveness of high modulus columns in liquefaction mitigation**
Demir S., Özener P.
Soil Dynamics and Earthquake Engineering, vol.139, 2020 (SCI-Expanded)
- VIII. **Identification of time of liquefaction triggering**
ÖZENER P., Greenfield M. W., Sideras S. S., Kramer S. L.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.128, 2020 (SCI-Expanded)
- IX. **Numerical investigation of seismic performance of high modulus columns under earthquake loading**

- Demir S., ÖZENER P.
EARTHQUAKE ENGINEERING AND ENGINEERING VIBRATION, vol.18, no.4, pp.811-822, 2019 (SCI-Expanded)
- X. **Estimation of Liquefaction with UBC3D-PLM Model: A Centrifuge Test Example**
Demir S., ÖZENER P.
TEKNIK DERGI, vol.30, no.5, pp.9421-9442, 2019 (SCI-Expanded)
- XI. **Experimental and Numerical Investigations of Behavior of Rammed Aggregate Piers**
DEMİR S., ÖZENER P., Kirkit M.
GEOTECHNICAL TESTING JOURNAL, vol.40, no.3, 2017 (SCI-Expanded)
- XII. **Estimation of residual shear strength ratios of liquefied soil deposits from shear wave velocity**
ÖZENER P.
Earthquake Engineering and Engineering Vibration, vol.11, no.4, pp.461-484, 2012 (SCI-Expanded)
- XIII. **Vertical Variability of the Undrained Shear Strength of Golden Horn Clay**
Bicer P., Ozener P. T.
MARINE GEORESOURCES & GEOTECHNOLOGY, vol.27, no.4, pp.309-321, 2009 (SCI-Expanded)
- XIV. **Investigation of liquefaction and pore water pressure development in layered sands**
Oezener P., Oezaydin K., BERİLGİN M. M.
Bulletin of Earthquake Engineering, vol.7, no.1, pp.199-219, 2009 (SCI-Expanded)
- XV. **Seismic microzonation of the historic peninsula of Istanbul**
Ince G. C., Yildirim M., OZAYDIN K., OZENER P.
Bulletin of Engineering Geology and the Environment, vol.67, no.1, pp.41-51, 2008 (SCI-Expanded)
- XVI. **Microzonation of Zeytinburnu region with respect to soil amplification: A case study**
Kilic H., OEZENER P., ANSAL A., Yildirim M., OEZAYDIN K., ADATEPE S.
ENGINEERING GEOLOGY, vol.86, no.4, pp.238-255, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of Seismic Performance of High Modulus Columns in Liquefiable Soils**
Demir S., Özener P.
ASCE Geotechnical Special Publication, vol.2018, no.GSP290, pp.160-169, 2018 (Scopus)
- II. **The Sustainable Design of Granular Columns Based on Laboratory Model Tests**
Mokarram F., Demir S., Özener P.
ASCE Geotechnical Special Publication, vol.1, no.GSP271, pp.893-903, 2016 (Scopus)

Books & Book Chapters

- I. **TBDY (2018)'e Göre Yüzeysel Temeller İçin Statik Yükler ve Deprem Etkisi Altında Tasarım Örneği**
ÖZENER P.
in: Türkiye Bina Deprem Yönetmeliği (TBDY-2018) Eğitim Elkitabı Açıklamalar ve Uygulama Örnekleri Kısım-I, Aydınöğlü N., Özer E., Celep Z., Özaydın K, Editor, Tmmob İnşaat Tmmob İnşaat Mühendisleri Odası Yayınları, Ankara, 2019
- II. **Turkey Building Earthquake Regulation Chapter I-7. Ground Behavior and Foundation Design under Earthquake Effect (TBDY-2018 BÖLÜM 16)**
Berilgen M. M., Çinicioğlu Ö., Berilgen S. A., Kılıç H., Özener P., Bayat E., Yorgun C.
in: Türkiye Bina Deprem Yönetmeliği (TBDY-2018) Eğitim Elkitabı Açıklamalar ve Uygulama Örnekleri Kısım-I: Genel Konular, Aydınöğlü N., Özer E., Celep Z., Özaydın K., Editor, Tmmob İnşaat Tmmob İnşaat Mühendisleri Odası Yayınları, Ankara, 2018
- III. **Effects of Liquefaction on Ground Surface Motions**
ÖZENER P.
in: Perspectives on Earthquake Geotechnical Engineering, Ansal Atilla, Sakr Mohamed, Editor, Springer, pp.285-

Refereed Congress / Symposium Publications in Proceedings

- I. **Deprem Sırasında Zeminlerde Mukavemet ve Rijitlik Kaybı ile Temel Altı Zemin Yer Değiştirmelerinin Hesaplanması**
ÖZENER P.
Zemin Mekaniği ve Geoteknik Mühendisliği 17. Ulusal Konferansı, İstanbul, Turkey, 26 September 2018, vol.1, no.1, pp.243-255
- II. **Estimation of liquefaction with UBC3D-PLM Model: A centrifuge test example**
DEMİR S., ÖZENER P.
7th. Geotechnical Symposium with International Participation, İstanbul, Turkey, 22 - 24 November 2017, vol.1, pp.667-676
- III. **Determination of Seismic Performance of High Modulus Columns in Liquefiable Soils**
DEMİR S., ÖZENER P.
3rd International Conference on Performance-based Design in Earthquake Geotechnical Engineering (PBD-III), Vancouver, Canada, 16 July 2017, pp.1
- IV. **Geri Dönüştürülmüş Beton Agregalar ile Oluşturulmuş Rijit Kolonların Performansı**
ÖZENER P., DEMİR S.
Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal Kongresi, Erzurum, Turkey, 13 - 14 October 2016
- V. **Determination of Compressibility Parameters of A Compacted High Plastic Natural Clay with Laboratory Tests**
TASLAK H. B., BERİLGİN S. A., KILIÇ H., ÖZENER P.
4th International Conference on New Developments in Soil Mechanics and Geotechnical Engineering, 2 - 04 June 2016, vol.1, pp.1241-1250
- VI. **An Experimental Study On The Use Of Recycled Concrete Aggregates In Stone Columns For Sustainable Design**
DEMİR S., ÖZENER P.
International Conference of Soft Ground Engineering, Advances in Soft Ground Engineering, ICESGE 2015, Singapore, 3 - 04 December 2015
- VII. **NUMERICAL STUDY OF EFFECTIVENESS OF JET GROUT COLUMNS IN LIQUEFACTION MITIGATION**
ÖZENER P., BERİLGİN M. M.
6th International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1 - 04 November 2015
- VIII. **Geri Dönüştürülmüş Beton Agregalarının Yüksek Modüllü Kolon Oluşturulmasında Kullanımının Model Deneylerle Araştırılması**
DEMİR S., ÖZENER P., ÖZAYDIN K.
Zemin Mekaniği ve Temel Mühendisliği 15. Ulusal Kongresi, Ankara, Turkey, 16 October 2014, vol.2, pp.715-724
- IX. **INVESTIGATION OF EFFECTS ON SEISMIC RESPONSE CHARACTERISTICS OF EARTH FILL AND ROCKFILL DAMS**
ÖZENER P.
Tenth U.S. National Conference on Earthquake Engineering Frontiers of Earthquake Engineering, ALASKA-ANCHORAGE, United States Of America, 21 - 25 July 2014
- X. **Comparison Of Behavior Of Stone Columns And Rammed Aggregate Piers Based On Laboratory Model Tests**
DEMİR S., KURTOĞLU M., ÖZENER P., AKGÜNER C.
International Civil Engineering & Architecture Symposium for Academicians, Antalya, Turkey, 17 May 2014, vol.1, pp.126-136
- XI. **Effects of liquefaction on ground surface motions**
ÖZENER P.

ICEGE Istanbul 2013-From Case History to Practice, In honour of Prof. Kenji Ishihara, 17 - 19 June 2013

- XII. **Sıvılaşmanın Deprem Yer Hareketlerine olan Etkilerinin İncelenmesi**
ÖZENER P.
Zemin Mekaniği ve Temel Mühendisliği 14.Ulusal Kongresi, 01 October 2012
- XIII. **Numerical Modelling of Liquefaction in Layered and Silt Inter Layered Sands**
ÖZENER P.
5th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics and Symposium in honor of professor I. M. Idriss, 01 May 2010
- XIV. **Kumların Sıvılaşma Sırasındaki Davranışının Nümerik Olarak Modellenmesi**
ÖZENER P.
Zemin Mekaniği ve Temel Mühendisliği 12.Ulusal Kongresi Selçuk Üniversitesi,, 01 October 2008
- XV. **Comparison of One and Two Dimensional Site Response Analysis Results for Küçükçekmece Region in Istanbul**
Alim C., KILIÇ H., Özaydın K., ÖZENER P., YILDIRIM M.
4th International Conference on Earthquake Geotechnical Engineering, Thessaloniki, Greece, 25 - 28 June 2007, vol.1
- XVI. **Seismic Microzonation of historical peninsula (İstanbul) with respect to liquefaction susceptibility**
ÖZENER P.
4th International Conference on Earthquake Geotechnical Engineering, 01 June 2007
- XVII. **Evaluation of Küçükçekmece Region with Respect to Soil Amplification**
KILIÇ H., ÖZENER P., YILDIRIM M., Özaydın K., Adatepe Ş.
16 th International Conference on Soil Mechanics and Geotechnical Engineering, Osaka, Japan, 12 - 16 September 2006, vol.4, no.1, pp.2667-2672
- XVIII. **Küçükçekmece Halkalı Yerleşim Bölgesinin Zemin Büyütmelerine göre Mikrobölgelemesi**
KILIÇ H., Demir H., ÖZENER P., YILDIRIM M.
Zemin Mekaniği ve Temel Mühendisliği Onbirinci Ulusal Kongresi, Trabzon, Turkey, 7 - 08 September 2006, vol.1, pp.59-72
- XIX. **Investigation of Liquefaction in Layered Sands By Means of Shaking Table Tests**
ÖZENER P., BERİLGİN M. M., ÖZAYDIN K.
The 6th International Conference in Geotechnics (6th ICMGP), Hong Kong, 4 - 06 August 2006, pp.475-480
- XX. **Seismic Microzonation of Küçükçekmece-Halkalı Region in İstanbul**
ÖZENER P.
Word Tunnel Congress & 31st ITA General Assembly, 01 May 2005
- XXI. **Seismic Microzonation of Küçükçekmece and Sefaköy Regions in Istanbul with Respect to Liquefaction Susceptibility: A Case Study**
ÖZENER P., KILIÇ H., Adatepe Ş., YILDIRIM M.
International Conference on Problematic Soils, 01 May 2005, vol.3, pp.985-993
- XXII. **Zonation of Küçükçekmece Region with Respect to Liquefaction Susceptibility of Soil Conditions**
ÖZENER P., KILIÇ H., Özaydın K.
6 th International Conference on Advances in Civil Engineering, İstanbul, Turkey, 6 - 08 October 2004, vol.3, pp.1603-1611
- XXIII. **Küçükçekmece Sefaköy Yerleşim Bölgelerinin Yamaç Kayması Tehlikesine göre Sismik Mikro Bölgelemesi**
KILIÇ H., Adatepe Ş., ÖZENER P., YILDIRIM M., Kutay Ö.
Zemin Mekaniği ve Temel Mühendisliği 10. Ulusal Kongresi, İstanbul, Turkey, 16 - 17 September 2004, vol.1, pp.517-526
- XXIV. **Küçükçekmece-Sefaköy Bölgelerinin Yamaç Kayması Tehlikesine göre Sismik Mikrobölgelemesi**
ÖZENER P.
Zemin Mekaniği ve Temel Mühendisliği 10.Ulusal Kongresi, 01 September 2004
- XXV. **İstanbul Küçükçekmece İlçesi Sefaköy Halkalı İkitelli Yerleşim Bölgelerinin Zemin Özellikleri ve Yerleşime Uygunluk Açısından Değerlendirilmesi**

YILDIRIM M., Özaydın K., Yıldırım S., Adatepe Ş., TONAROĞLU M., KILIÇ H., ÖZENER P.

Küçükçekmece ve Yakın Çevresi Teknik Kongresi, İstanbul, Turkey, 9 - 10 October 2003, vol.1, pp.1-41

XXVI. **Determining the Compressibility and Permeability Characteristics of Foundation Layers of Alibey Dam**

KILIÇ H., ÖZENER P., TONAROĞLU M., Özaydın K.

5th International Congress on Advances in Civil Engineering, 25 - 27 September 2002, vol.2, pp.973-982

XXVII. **Determining Permeability Characteristics of Clayey Soils Underneath the Embankments**
ÖZENER P.

5th International Conference on Advances in Civil Engineering, 01 September 2002

XXVIII. **Numerical and Physical Modeling of Liquefaction Mechanisms in Layered Sands**

ÖZENER P., ÖZAYDIN İ. K.

Geotechnical Earthquake Engineering and Soil Dynamics IV-GEESD IV, United States Of America, pp.11

XXIX. **Site Response Modeling in Liquefiable Soil Deposits**

ÖZENER P., Kramer S., Kramer S., Sideras S.

4 th IASPEI/IAEE International Symposium, Effects of Surface Geology on Seismic Motion, United States Of America, pp.11

Supported Projects

ÖZENER P., DEMİR S., Project Supported by Higher Education Institutions, Yumuşak Zeminler İçinde Oluşturulmuş Geopier Kolonlarının Davranışının Laboratuvar Model Deneyleriyle İncelenmesi, 2012 - 2018

ÖZENER P., TUBITAK Project, Tabakalı Kum Zeminlerin Sıvılaşma ve Sıvılaşma Sonrası Davranışlarının Model Deneylerle Araştırılması, 2003 - 2007

Scientific Refereeing

Bulletin of Earthquake Engineering, SCI Journal, August 2017

Bulletin of Earthquake Engineering, SCI Journal, June 2017

Bulletin of Earthquake Engineering, SCI Journal, February 2011

Metrics

Publication: 53

Citation (WoS): 89

Citation (Scopus): 124

H-Index (WoS): 6

H-Index (Scopus): 7

Scholarships

DOKTORA SONRASI ARAŞTIRMA BURSUSU, TUBITAK, 2011 - Continues

Non Academic Experience

University of Washington