Asst. Prof. Necmi YARBAŞI

Personal Information

Office Phone: +90 0442 231 4551
Web: https://avesis.atauni.edu.tr/nyarbasi
Address: Atatürk Üniversitesi Mühendislik Fakültesi İnşaat Mühendisliği Bölümü Erzurum

International Researcher IDs
ScholarID: _OgiljkAAAAJ
ORCID: 0000-0003-4259-1278
Yoksis Researcher ID: 42013

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, İnşaat-Geoteknik, Turkey 1996 - 2001
Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, İnşaat-Geoteknik, Turkey 1993 - 1996
Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1982 - 1986

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, 2237-A LİSANSÜSTÜ AKADEMİK DANIŞMANLIK EĞİTİMİ, Atatürk Üniversitesi Öğretme ve Öğrenmeyi Geliştirme Uygulama ve Araştırma Merkezi, 2022
Vocational Training, Sertifikalı KVKK Eğitimi, Atatürk Üniversitesi Sürekli Eğitim Uygulama ve Araştırma Merkezi, 2022

Dissertations

Doctorate, Erzurum şehir merkezi batı kesiminin geoteknik haritalaması, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat-Geoteknik, 2001
Postgraduate, Erzurum şehir merkezi güney bölgesinin geoteknik haritalaması., Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat-Geoteknik, 1996

Research Areas

Geological Engineering, Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2020 - Continues
Assistant Professor, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2009 - 2020
Expert, Ataturk University, Rektörlük, Deprem Araştırma Merkezi, 1992 - 2009

Academic and Administrative Experience

Vice Dean, Ataturk University, Oltu Yer Bilimleri Fakültesi, 2011 - 2020

Courses

Kuyu Tamamlama Tasarımı, Undergraduate, 2022 - 2023
İleri Sondaj Tekniği, Postgraduate, 2022 - 2023, 2021 - 2022
Petrol ve Doğal Gaz Boru hattı Dizaynı, Undergraduate, 2022 - 2023
Sondaj Mühendisliği II, Undergraduate, 2022 - 2023
Jeoteknik haritalama, Postgraduate, 2022 - 2023, 2020 - 2021
Jeotermal Mühendsiliği, Undergraduate, 2022 - 2023, 2020 - 2021
Rezervuar Mühendisliği, Undergraduate, 2022 - 2023
Jeotermal Enerji, Undergraduate, 2022 - 2023
Temel İnşaatı (Narman Meslek Yüksek Okulu), Associate Degree, 2020 - 2021
Kayaç ve akışkan özellikleri, Undergraduate, 2020 - 2021
Temel İnşaat, Associate Degree, 2018 - 2019
Arazi Ölçmeleri, Associate Degree, 2018 - 2019
Sondaj Mühendisliği I, Undergraduate, 2018 - 2019
Jeotermal Mühendisliği, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Effects of quartzite on the freeze–thaw resistance of clayey soil material from Erzurum, NE Turkey**
Kalkan E., Yarbaşı N., Bilici Ö., Karimdoust S.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.81, pp.1-9, 2022 (SCI-Expanded)

II. **Effect of Freeze-Thaw on Compressive Strength of Clayey Soils Reinforced with Wool**
YARBAŞI N.
JOURNAL OF NATURAL FIBERS, vol.19, no.1, pp.382-393, 2022 (SCI-Expanded)

III. **Spectroscopic and radiation shielding features of Nemrut, Pasinler, Sarikamis and Ikizdere obsidians in Turkey: Experimental and theoretical study**
Aygun Z., YARBAŞI N., AYGÜN M.
CERAMICS INTERNATIONAL, vol.47, no.24, pp.34207-34217, 2021 (SCI-Expanded)

IV. **FREEZING-THAWING BEHAVIOR OF CLAYEY SOILS REINFORCED WITH PINE TREE SAWDUST AND MARBLE DUST**
YARBAŞI N., Alacali M., Akturk E.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.19, no.12, pp.2249-2254, 2020 (SCI-Expanded)

V. **Effect of Freezing-Thawing on Clayey Soils Reinforced with Human Hair Fibers**
YARBAŞI N.
JOURNAL OF NATURAL FIBERS, vol.17, no.6, pp.921-931, 2020 (SCI-Expanded)

VI. **Analyses of the Structural and the Temperature-Dependent Magnetic Properties of Pine Resin and Pine Bark from the Oltu/Erzurum Region in Turkey**
Aygun Z., YARBAŞI N.

JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.72, no.7, pp.795-799, 2018 (SCI-Expanded)

VII. **Geotechnical mapping for alluvial fan deposits controlled by active faults: a case study in the Erzurum, NE Turkey**
Yarbaşı N., KALKAN E.
ENVIRONMENTAL GEOLOGY, vol.58, no.4, pp.701-714, 2009 (SCI-Expanded)

VIII. **Modification of the geotechnical properties, as influenced by freeze-thaw, of granular soils with waste additives**
Yarbasi N., Kalkan E., Akbulut S.
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.48, no.1, pp.44-54, 2007 (SCI-Expanded)

Articles Published in Other Journals

I. **The Effect of Curing Time and Temperature Change on Strength in High Plasticity Clay Soils Reinforced with Waste Egg Shell Powder**
YARBAŞI N., KALKAN E., Kartal H. O.
Geotechnical and Geological Engineering, vol.41, no.1, pp.383-392, 2023 (ESCI)

II. **Effects of Quartzite on the Desiccation Cracks of Clayey Soils Exposed to Wetting-Drying Cycles**
Yarbaşı N., Kalkan E.
International Journal of Science and Engineering Applications, vol.11, no.1, pp.31-34, 2022 (Peer-Reviewed Journal)

III. **Freeze-Thaw Effect in Granular Soil Reinforced with Calcareous Portland Cement**
Yarbaşı N., Kalkan E.
International Journal of Innovative Research and Reviews, vol.5, no.2, pp.74-77, 2021 (Peer-Reviewed Journal)

IV. **The effect of pine tree sawdust on the volume compressibility of expansive soils**
KALKAN E., YARBAŞI N.
International Journal of Science and Engineering Applications, vol.10, no.4, pp.29-33, 2021 (Peer-Reviewed Journal)

V. **Freeze-Thaw Resistance of Fine-Grained Soils Stabilized with Waste Material Mixtures**
Yarbaşı N., Kalkan E.
International Journal of Science and Engineering Applications, vol.10, no.1, pp.1-6, 2021 (Peer-Reviewed Journal)

VI. **Stabilization of Clayey Soils by Using the Organic Waste-Material**
Yarbaşı N., Kalkan E.
International Journal of Science and Engineering Applications, vol.9, no.11, pp.129-132, 2020 (Peer-Reviewed Journal)

VII. **Investigation of Wet-Dry Cycle Effect on Swelling Behavior of Stabilized Expansive Soils**
YARBAŞI N., KALKAN E.
International journal of science and Engineering Applications, vol.9, no.12, pp.153-157, 2020 (Peer-Reviewed Journal)

VIII. **The effect of pine tree sawdust on the freeze-thaw resistance of expansive soils**
YARBAŞI N., KALKAN E.
International Journal of Latest Technology in Engineering, Management & Applied Science, vol.9, no.11, pp.29-33, 2020 (Peer-Reviewed Journal)

IX. **The Swelling Properties of Modified Expansive Soil with Pine Tree Sawdust**
YARBAŞI N., KALKAN E.
International Journal of Latest Technology in Engineering,Management Applied Science, vol.9, no.11, pp.24-28, 2020 (Peer-Reviewed Journal)

X. **The effect of waste material mixtures on the mechanical properties of clayey soils**
KALKAN E., YARBAŞI N.
International Journal of Latest Technology in Engineering,Management Applied Science, vol.9, no.10, pp.48-52, 2020 (Peer-Reviewed Journal)

XI. **The Effects of Quartzite on the Swelling Behaviors of Compacted Clayey Soils**
KALKAN E., YARBAŞI N., BİLİCİ Ö.
International Journal of Earth Sciences Knowledge and Applications, vol.2, no.2, pp.92-101, 2020 (Peer-Reviewed Journal)

XII. **The mechanical Performance of Clayey Soils Reinforced with Waste PET Fibers**
YARBAŞI N., KALKAN E.
International Journal of Earth Sciences Knowledge and Applications, vol.2, no.1, pp.19-26, 2020 (Peer-Reviewed Journal)

XIII. **Petrographic and Geochemical Fingerprints of Sub-Volcanic Dykes and their Host Harzburgites from the Ulaş Ultramafics (Sivas, Turkey)**
Bilici Ö., Kolaylı H., Kalkan E., Bilici T., Yarbaşı N.
International Journal of Earth Science Knowledge and Applications, vol.2, no.1, pp.1-12, 2020 (Peer-Reviewed Journal)

XIV. **Freeze-Thaw Behaviors of Sandy Soils Modified byMixtures of PET Fiber and Marble Dust**
YARBAŞI N., KALKAN E.
International Journal of Latest Technology in Engineering, Management Applied Science, vol.8, no.12, pp.38-42, 2019 (Peer-Reviewed Journal)

XV. **Freeze-Thaw Behaviors of Sandy Soils Mofified by Mixtures of PET Fiber and Marble Dust**
YARBAŞI N., KALKAN E.
International Journal of Latest Technology in Engineering, Management Applied Science (IJLTEMAS), vol.8, no.12, pp.38-42, 2019 (Peer-Reviewed Journal)

XVI. **Strength performance of stabilized clayey soils with quartzite material**
KALKAN E., YARBAŞI N., BİLİCİ Ö.
International Journal of Earth Sciences Knowledge and Applications, vol.1, no.1, pp.1-5, 2019 (Peer-Reviewed Journal)

XVII. **Mermer Tozu ve Atık Lastikle Takviye Edilmiş Oltu/Erzurum (Türkiye) Bölgesine Ait Kil Türleri ve Siltli Kumun Spektroskopik Analizi**
AYGÜN Z., YARBAŞI N.
Karaelmas Science and Engineering Journal, vol.9, no.2, pp.215-226, 2019 (Peer-Reviewed Journal)

XVIII. **The Stabilization of Sandy Soils by Using the Plastic Bottle Waste**
YARBAŞI N., KALKAN E.
International Journal of Advance Engineering and ResearchDevelopment, vol.6, no.11, pp.140-144, 2019 (Peer-Reviewed Journal)

XIX. **Use of Waste Material (Oltu Stone Waste) for soil Stabilization**
YARBAŞI N., KALKAN E.
International Journal of Latest Technolgy in Engineering, Management Applied Science (IJLTEMAS), vol.8, no.11, pp.102-107, 2019 (Peer-Reviewed Journal)

XX. **Artık Çam Ağacı Talaşı İlave Edilmiş Daneli Zeminlerin Mukavemet Ve Geçirimlilik Özellikleri**
YARBAŞI N.
Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.21, no.63, pp.949-954, 2019 (Peer-Reviewed Journal)

XXI. **Reinforce in Engineering Properties of Clayey Soils Using CigaretteButts and Marble Dust**
MOHAMEDGREAD F., YARBAŞI N., KALKAN E.
EUROPEAN JOURNAL OF ADVANCES IN ENGINEERING AND TECHNOLOGY, vol.6, no.8, pp.31-37, 2019 (Peer-Reviewed Journal)

XXII. **Performance of granular soils reinforced with obsidian (volcanic glass) additives in different proportions subjected to freeze-thaw**
YARBAŞI N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.25, no.6, pp.764-767, 2019 (ESCI)

XXIII. **Mermer Tozu ve Atık Lastik ile İyileştirilen Düşük Plastisiteli Killi Zeminlerin Dayanım Özellikleri**
YARBAŞI N.

Doğal Afetler ve Çevre Dergisi, vol.4, pp.162-171, 2018 (Peer-Reviewed Journal)

XXIV. **Investigation on the variation of strength of coarse grained soils reinforced with waste tires pieces as a result of freezing and thawing cycles**
YARBAŞI N., Alacali M.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.3, pp.561-565, 2018 (ESCI)

XXV. **The freezing-thawing behavior of clayey soils reinforced with scrap tires pieces**
YARBAŞI N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.6, pp.559-562, 2016 (ESCI)

XXVI. **Geotechnical mapping of Oltu (Erzurum) residential area and its vicinity**
YARBAŞI N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.6, pp.538-545, 2016 (ESCI)

XXVII. **Evaluation of thermal mud characteristics of Erzurum (Köprüköy) clayey raw materials (NE Turkey)**
KALKAN E., YARBAŞI N., CANBOLAT M. Y., ÖZGÜL M.
International Journal of the Physical Sciences, vol.7, no.40, pp.5566-5576, 2012 (Peer-Reviewed Journal)

XXVIII. **Kemaliye Çevresinde Pg Sg Soğurulması ve Yeni Magnitüd Formülü**
AYDIN U., ŞAHİN Ş., KALKAN E., YARBAŞI N., AKSOY G.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, pp.13-23, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **EVALUATION OF GEOLOGICAL DATA IN URBAN PLANNING**
Yarbaşı N.
International Conference on Sustainable Cities and Urban Landscapes (ICSULA 2022), Konya, Turkey, 26 - 27 October 2022, vol.1, pp.536-540

II. **COMPRESSIVE STRENGTH OF CLAYEY SOILS REINFORCED WITH BAYBURT STONE (BAYBURT TUFFITE)**
Yarbaşı N., Kul R.
EGE InternatIonal Congress on InnovatIon technologIes & engIneerIng, İzmir, Turkey, 2 - 04 September 2022, vol.1, no.1, pp.207-211

III. **Effect of thermal properties on strength in high plastic clay soils reinforced with waste glass bottle powder**
YARBAŞI N., KALKAN E., AĞIRMAN E., Kartal H. O.
International Conference on the Phenomenological Aspects in civil Engineering (PACE-2021), Erzurum, Turkey, 20 - 23 June 2021, no.1, pp.659-661

IV. **Structural and Mechanical Analysis of Low Plasticitiy Clayey Soils Reinforced with Pet Fibers Before and After Freeze-Thaw**
Yarbaşı N., Kalkan E.
73. Uluslararası katılımlı Türkiye Jeoloji Kurultayı, Ankara, Turkey, 24 - 28 May 2021, vol.1, no.1, pp.536-541

V. **Structural and Mechanical Analysis of Low Plasticity Clayey Soils Reinforced with Waste Pet Fibers Before and After Freeze-Thaw**
YARBAŞI N., KALKAN E.
Geological Congres of Turkey, Ankara, Turkey, 24 May 2021, pp.534-541

VI. **Modification of Sandy Soils by Using Waste of Plastic Bottles**
YARBAŞI N., KALKAN E.
Çukurova 3. Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019, pp.291-296

VII. **Use of Cigarette Butts Wastes for Modification of Clayey Soils**
Gread F. M., YARBAŞI N., KALKAN E.

Çukurova 3. Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019, pp.297-303

VIII. **Stabilization of Grained Soils by Using Wastes of Oltu Stone**
YARBAŞI N., KALKAN E.
Çukurova 3. Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 3 - 06 October 2019, pp.304-308

IX. **The freezing-thawing behavior of clayey (Red clay) soils reinforced with waste pine tree sawdust**
YARBAŞI N., KALKAN E.
International congress on engineering and life science (ICELIS-2018), Kastamonu, Turkey, 26 - 29 April 2018, vol.1, pp.370-374

X. **Investigation Of Resistance Performances Of Sandy Soils Reinforced With Marble Dust**
YARBAŞI N., ALACALI M., HARPUTLUGİL F. H.
Uluslaraarası katılımlı 70. Türkiye Jeoloji Kurultayı Kültürel Jeoloji ve Jeolojik Miras, 10 - 14 April 2017, pp.246-247

XI. **The freezing-Thawing Behavior of Coarse Grained Soils Reinforced With Marble Dust**
YARBAŞI N., ALACALI M., HARPUTLUGİL F. H.
Uluslararası Katılımlı 70. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 10 - 14 April 2017, pp.546-547

XII. **Atık Mermer Tozu ile Güçlendirilmiş Siltli Kum Zeminlerin Donma Çözülme Davranışı**
YARBAŞI N., KALKAN E.
Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal Kongresi ZM-16, Erzurum, Turkey, 13 - 14 October 2016, vol.2, pp.853-859

XIII. **Oltu Erzurum yerleşim alanı ve yakın çevresinin jeoteknik haritalaması**
YARBAŞI N., KALKAN E.
DAJEO'2015, Van, Turkey, 7 - 11 September 2015, pp.140-141

XIV. **Oltu Stone's Properties and Mining**
BİLGİN Ö., Meral Ç., KALKAN E., YARBAŞI N., DİLMAÇ M. K.
22nd WORLD MINING CONGRESS EXPO, 11 - 16 September 2011

XV. **Oltu Stone's Properties and Mining**
Bilgin Ö., Çağlar M., KALKAN E., YARBAŞI N., DİLMAÇ M. K.
22nd World Mining Congress & Expo, İstanbul, Turkey, 11 - 16 September 2011, pp.695-698

XVI. **Erzurum Kent Merkezinin Depremselliği**
Gökşin A., YARBAŞI N., AYDIN U., Azer K.
58. Jeoloji Kurultayı, Ankara, Turkey, 11 - 17 April 2005

XVII. **1990 2003 Yıllarına ilşkin Doğu Anadolu Depremlerinini İstatiksel Çözümlenmesi**
YILMAZ M., KALKAN E., YARBAŞI N., Gökşin A., AYDIN U., Azer K.
57. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 8 - 12 March 2004

Supported Projects

YARBAŞI N., ALACALI M., AĞIRMAN AKTÜRK E., Project Supported by Higher Education Institutions, ÇAM AĞACI TALAŞI VE MERMER TOZU İLE GÜÇLENDİRİLMİŞ KİLLİ ZEMİNLERİN DONMA ÇÖZÜLME DAVRANIŞI, 2018 - 2019
YARBAŞI N., DİLMAÇ M. K., Project Supported by Higher Education Institutions, ÖĞRENCİLERİN EĞİTİM, SAĞLIK VE SPORTİF FAALİYETLERİNDE ETKİLİ OLAN SPOR TESİSLERİNİN MODERNİZASYONU, 2013 - 2015
YARBAŞI N., Project Supported by Higher Education Institutions, OLTU (ERZURUM) VE ÇEVRESİ KAYAÇLARININ AGREGA ÖZELLİKLERİNİN BELİRLENMESİ, 2013 - 2015
YARBAŞI N., DİLMAÇ M. K., Project Supported by Higher Education Institutions, SPOR TESİSLERİNİN ÖĞRENCİLERİN EĞİTİM SAĞLIK VE MOTİVASYONU ÜZERİNE ETKİLERİ, 2010 - 2011

Memberships / Tasks in Scientific Organizations

Jeoloji Mühendsileri Odası, Member, 1987 - Continues

Metrics

Publication: 56
Citation (WoS): 184
Citation (Scopus): 193
H-Index (WoS): 3
H-Index (Scopus): 3

Congress and Symposium Activities

International Conference on Sustainable Cities and Urban Landscapes (ICSULA 2022), Attendee, Konya, Turkey, 2022
International Congress on Innovation Technologies & Engineering, Attendee, İzmir, Turkey, 2022
International congres on engineering and life science (ICELIS), Attendee, Kastamonu, Turkey, 2018
9. Uluslararası mermer ve doğaltaş kongresi ve sergisi, Attendee, Antalya, Turkey, 2017
Zemin Mekaniği ve Geoteknik Mühendisliği 16. Ulusal kongresi, Attendee, Erzurum, Turkey, 2016
Oltu (Erzurum) Yerleşim Alanı Ve Yakın Çevresinin Jeoteknik Haritalaması, Attendee, Van, Turkey, 2015

Non Academic Experience

Atatürk Üniversitesi Deprem Araştırma Merkezi Müdürlüğü
DSİ VIII.Bölge VII. Sondaj Şube Müd.