

Assoc. Prof. Ömer Ündül

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International Researcher IDs

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Publons / Web Of Science ResearcherID: C-7519-2019

ScopusID: 48462096700

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Education Information

Doctorate, Istanbul University, Institute Of Graduate Studies In Sciences, Turkey 2001 - 2007

Postgraduate, Istanbul University, Institute Of Graduate Studies In Sciences, Turkey 1998 - 2001

Undergraduate, Istanbul University, Turkey 1994 - 1998

Research Areas

Applied Geology, Engineering Geology foundations, earthquakes, dams, reservoirs

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Maden, Jeoloji Mühendisliği, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Behavior of grout injected solid stone masonry walls under in-plane loading**
DİNÇ ŞENGÖNÜL B., YÜZER N., Şengönül C., ULUKAYA S., OKTAY D., Ündül Ö.
Structures, vol.58, 2023 (SCI-Expanded)
- II. **Shear Rate Effect on Strength Characteristics of Sandy Soils**
BEREN M., Cobanoglu I., Celik S. B., Undul Ö.
SOIL MECHANICS AND FOUNDATION ENGINEERING, vol.57, no.4, pp.281-287, 2020 (SCI-Expanded)
- III. **Investigating the effects of micro-texture and geo-mechanical properties on the abrasiveness of volcanic rocks**
Undul Ö., ER S.
ENGINEERING GEOLOGY, vol.229, pp.85-94, 2017 (SCI-Expanded)
- IV. **On the variations of geo-engineering properties of dunites and diorites related to weathering**
Undul Ö., Tugrul A.
ENVIRONMENTAL EARTH SCIENCES, vol.75, no.19, 2016 (SCI-Expanded)
- V. **Assessment of mineralogical and petrographic factors affecting petro-physical properties, strength and cracking processes of volcanic rocks**

Undul Ö.

ENGINEERING GEOLOGY, vol.210, pp.10-22, 2016 (SCI-Expanded)

- VI. **Micro-textural effects on crack initiation and crack propagation of andesitic rocks**
Undul Ö., Amann F., Aysal N., Ploetze M. L.
ENGINEERING GEOLOGY, vol.193, pp.267-275, 2015 (SCI-Expanded)
- VII. **Identifying the changes of geo-engineering properties of dunites due to weathering utilizing electrical resistivity tomography (ERT)**
Undul Ö., Tugrul A., Ozyalin S., Zarif I. H.
JOURNAL OF GEOPHYSICS AND ENGINEERING, vol.12, no.2, pp.273-281, 2015 (SCI-Expanded)
- VIII. **Crack Initiation and Crack Propagation in Heterogeneous Sulfate-Rich Clay Rocks**
Amann F., Undul Ö., Kaiser P. K.
ROCK MECHANICS AND ROCK ENGINEERING, vol.47, no.5, pp.1849-1865, 2014 (SCI-Expanded)
- IX. **The Influence of Weathering on the Engineering Properties of Dunites**
Undul Ö., Tugrul A.
ROCK MECHANICS AND ROCK ENGINEERING, vol.45, no.2, pp.225-239, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Carbon Dioxide Storage Potential of Orhaneli Ophiolite: Experimental Findings**
ÜNAL ERCAN H., GÖÇMENGİL G., GÜLMEZ YILDIRIM F., TOPKAFI M., ÜNDÜL Ö.
International Journal of Pure and Applied Sciences, vol.8, pp.204-216, 2022 (Peer-Reviewed Journal)
- II. **Evaluation for the effects of different cleaning techniques applied on Kufeki Stones Used in historical buildings in Istanbul**
Erozemen T., Undul Ö., Aysal N.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.8, pp.1413-1418, 2020 (ESCI)
- III. **Evaluation of problems encountered during the construction of the Çamlıca hill access tunnels**
Çamlıca Tepesi Ulaşım Tünellerinin Yapım Aşamalarında Karşılaşılan Sorunların Değerlendirilmesi
Taz F., Ündül Ö., Denek H.
Jeoloji Muhendisligi Dergisi, vol.42, no.1, pp.49-76, 2018 (Scopus)
- IV. **The differences of strength and deformation properties of dikes and host rocks in the paleozoic sequence of istanbul İstanbul paleozoyik istifindeki dayklar ile yan kayalarinin dayanım ve deformasyon özelliklerindeki farklılıklar**
Ündül Ö., Çobanoğlu B. C., Taz F.
Jeoloji Muhendisligi Dergisi, vol.42, no.2, pp.121-142, 2018 (Scopus)
- V. **The effects of micro-textural properties on the strength and deformation characteristics of rocks with andesite and rhyodasite compositions exposed in gökçeada Gökçeada'da yüzeylenen andezit ve riyodasit bileşimli kayaların içyapı özelliklerinin dayanım ve deformasyon özelliklerine etkileri**
Ündül Ö., AYSAL N.
Jeoloji Muhendisligi Dergisi, vol.40, no.2, pp.123-148, 2016 (Scopus)
- VI. **Strength and deformation properties of sulphate-rich clay rocks and their brittle failure processes**
Sülfatça zengin killi kayaların dayanım ve deformasyon özellikleri ile gevrek kırılma süreçleri
Ündül Ö., Amann F., Kaiser P. K.
Jeoloji Muhendisligi Dergisi, vol.39, no.2, pp.91-115, 2015 (Scopus)
- VII. **Identifying the weathering profiles of ultramafic rocks using electrical resistivity tomography (ERT)**
Ündül Ö., TUĞRUL A., Zarif I.
45th US Rock Mechanics / Geomechanics Symposium, 2011 (Scopus)
- VIII. **Comparison of weathering properties by the help of Electrical Resistivity Tomography Technique (ERT) Ayrışma Özelliklerinin Elektriksel Özdirenç Tomografisi (EÖT) Yöntemi Yardımı İle Karşılaştırılması**

Ündül Ö., TUĞRUL A., Halil Zarİf İ.

Jeoloji Muhendisligi Dergisi, vol.35, no.2, pp.115-132, 2011 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Strength, deformation and cracking characteristics of limestones**
Ündül Ö., AYSAL N., Çobanoğlu B., Amann F., Perras M.
International Symposium on International Society for Rock Mechanics, ISRM 2016, Cappadocia, Turkey, 29 - 31 August 2016, vol.1, pp.181-186
- II. **Swiss quartz dust guideline: A tool for managing the health risk related to quartz dust in early project stages**
Neuenschwander M., Singer J., Ündül Ö., Theiler A., Weh M., Vogel M., Steinle P., Martini D.
ITA-AITES World Tunnel Congress 2016, WTC 2016, California, United States Of America, 22 - 28 April 2016, vol.1, pp.238-247
- III. **Strength, deformation and cracking characteristics of limestones**
Ündül Ö., AYSAL N., Çobanoğlu B., Amann F., Perras M.
ISRM International Symposium - EUROCK 2016, Urgup, Turkey, 29 - 31 August 2016, pp.181-185
- IV. **Brittle failure processes in veined clay rock with large strength contrasts between vein and matrix**
Amann F., Kaiser P., Ündül Ö.
47th US Rock Mechanics / Geomechanics Symposium 2013, San Francisco, CA, United States Of America, 23 - 26 June 2013, vol.1, pp.53-59
- V. **Micro-textural controlled variations of the geomechanical properties of andesites**
Undul Ö., Amann F., Aysal N., Ploetze M.
ISRM International Symposium (EUROCK), Wroclaw, Poland, 23 - 26 September 2013, pp.357-361
- VI. **Assessment of mass movements in the western part of Istanbul, Turkey**
TUĞRUL A., Ündül Ö., Zarif İ.
11th International Symposium on Landslides and 2nd North American Symposium on Landslides, 2012, Banff, Canada, 2 - 08 June 2012, pp.1053-1056
- VII. **Changes in physico-mechanical properties of ultramafic rocks due to weathering**
Undul Ö., Tugrul A.
European Rock Mechanics Symposium (EUROCK 2010), Lausanne, Switzerland, 15 - 18 June 2010, pp.123-126

Metrics

Publication: 70

Citation (WoS): 129

Citation (Scopus): 272

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

İsviçre Federal Teknoloji Enstitüsü - Eidgenössische Technische Hochschule Zürich (ETH Zürich)

İstanbul Üniversitesi