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Education Information

Doctorate, University of Arizona, Mühendislik ve Maden Fakültesi, Jeoloji Mühendisliği ve İnşaat Mühendisliği, United States Of America 1986 - 1990

Postgraduate, University of Arizona, Mühendislik ve Maden Fakültesi, Jeoloji Mühendisliği, United States Of America 1982 - 1986

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, Turkey 1976 - 1981

Foreign Languages

English, C1 Advanced

Research Areas

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

Jury Memberships

Doctorate, Doctorate, Hacettepe Üniversitesi, November, 2018

Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, November, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- Municipal landfill site selection using TOPSIS methodology: A case study for Polatlı, Ankara, Türkiye**
Oner G., AKGÜN H., KOÇKAR M. K., Kelam A. A.
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- II. **Assessment of Complex Rock Slope Instabilities in Mudurnu, Turkey, Through Kinematic and Dynamic Analyses: A Case Study**
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- III. **Development of a GIS-Based Predicted-VS30 Map of Türkiye Using Geological and Topographical Parameters: Case Study for the Region Affected by the 6 February 2023 Kahramanmaraş Earthquakes**
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- IV. **Engineering geological characterization and assessment of complex rock slope failures in Mudurnu, Turkey**
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- V. **Development of a three-dimensional basin model to evaluate the site effects in the tectonically active near-fault region of Golyaka basin, Duzce, Turkey**
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- VI. **Deep learning-based key-block classification framework for discontinuous rock slopes**
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- VIII. **Landslide susceptibility assessment in medium-scale: case studies from the major drainage basins of Turkey**
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- IX. **Application of an optical fiber-based system for mass movement monitoring**
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- X. **An evaluation of seismic hazard and potential damage in Gaziantep, Turkey using site specific models for sources, velocity structure and building stock**
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- XI. **Discontinuous rock slope stability analysis by limit equilibrium approaches - a review**
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- XII. **Numerical analysis and stability assessment of complex secondary toppling failures: A case study for the south pars special zone**
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- XIV. **Key-block based analytical stability method for discontinuous rock slope subjected to toppling failure**
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- XV. **Displacement monitoring, displacement verification and stability assessment of the critical sections**

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- XVI. **Application of the modified Q-slope classification system for sedimentary rock slope stability assessment in Iran**
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- XVII. **Geotechnical characteristics and empirical geo-engineering relations of the South Pars Zone marls, Iran**
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- XVIII. **Correlations of SPT, CPT and pressuremeter test data in alluvial soils. Case study: Tabriz Metro Line 2, Iran**
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- XX. **Geothermal resource assessment of the Gediz Graben utilizing TOPSIS methodology**
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- XXI. **Development of a 2D and 3D computational algorithm for discontinuity structural geometry identification by artificial intelligence based on image processing techniques**
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- XXIII. **Evaluation of a sand bentonite mixture as a shaft/borehole sealing material**
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- XXIV. **Assessment of the effect of mineralogy on the geotechnical parameters of clayey soils: A case study for the Orta County, cankiri, Turkey**
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- XXVII. **Assessment of rock slope stability by slope mass rating (SMR): A case study for the gas flare site in Assalouyeh, South of Iran**
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- XXVIII. **The use of Ankara Clay as a compacted clay liner for landfill sites**
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- XXIX. **Numerical modeling of discontinuous rock slopes utilizing the 3DDGM (three-dimensional discontinuity geometrical modeling) method**

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- XXX. **Assessment of discontinuous rock slope stability with block theory and numerical modeling: a case study for the South Pars Gas Complex, Assalouyeh, Iran**
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- XXXI. **A generalized seismic source model for the Eastern Marmara Region along the segments of the North Anatolian Fault System**
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- XXXII. **Geotechnical Assessment of Compacted Sand Bentonite Mixtures to be Utilized in Underground Nuclear Waste Repositories and Barrier Design**
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- XXXIV. **Engineering geological characterization of the Antalya karstic rocks, southern Turkey**
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- XXXV. **Geotechnical assessment and engineering classification of the Antalya tufa rock, southern Turkey**
Sopacı E., Akgun H.
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- XXXVI. **Geotechnical evaluation of Ankara clay as a compacted clay liner**
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ENVIRONMENTAL EARTH SCIENCES, vol.74, pp.2991-3006, 2015 (SCI-Expanded)
- XXXVII. **Evaluation of site effect within the tectonic basin in the northern side of Ankara**
Eker A. M., Kockar M. K., Akgun H.
ENGINEERING GEOLOGY, vol.192, pp.76-91, 2015 (SCI-Expanded)
- XXXVIII. **Performance assessment of a bentonite-sand mixture for nuclear waste isolation at the potential Akkuyu Nuclear Waste Disposal Site, southern Turkey**
Akgun H., Ada M., Kockar M. K.
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- XXXIX. **Evaluation and Comparison of Landslide Susceptibility Mapping Methods A Case Study for the Ulus District Bartın Northern Turkey**
ARİF MERT E., DİKMEN M., CAMBAZOĞLU S., DÜZGÜN H. Ş., AKGÜN H.
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- XL. **Investigation of the failure mechanism and stabilization of a landslide in weathered tuffite, Giresun, northeastern Turkey**
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- XLI. **Landfill site selection utilizing TOPSIS methodology and clay liner geotechnical characterization: a case study for Ankara, Turkey**
Yal G. P., Akgun H.
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- XLII. **Geotechnical investigations and preliminary support design for the Gecilmez tunnel: A case study along the Black Sea coastal highway, Giresun, northern Turkey**
Akgun H., Muratlı S., Kockar M. K.
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- XLIII. **Landfill site selection and landfill liner design for Ankara, Turkey**
Yal G. P., Akgün H.

- ENVIRONMENTAL EARTH SCIENCES, vol.70, pp.2729-2752, 2013 (SCI-Expanded)
- XLIV. **Local site characterization and seismic zonation study by utilizing active and passive surface wave methods: A case study for the northern side of Ankara, Turkey**
Eker A. M., Akgun H., Kockar M. K.
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- XLV. **Evaluation of the site effects of the Ankara basin, Turkey**
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- XLVI. **Application of artificial neural network and logistic regression methods to landslide susceptibility mapping and comparison of the results for the ulus district, Bartın Bartın, ulus ilçesi için yapay sinir ağı ve lojistik regresyon yöntemlerinin heyelan duyarlılık çalışmasına uygulanması ve karşılaştırılması**
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- XLVII. **Geotechnical characterization and performance assessment of bentonite/sand mixtures for underground waste repository sealing**
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- XLVIII. **Evaluation of site conditions for the Ankara Basin of Turkey based on seismic site characterization of near-surface geologic materials**
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- XLIX. **Stability Charts for the Collapse of Residual Soil in Karst**
DRUMM E. C., Akturk O., Akgun H., Tutluoglu L.
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- L. **Development of a geotechnical and geophysical database for seismic zonation of the Ankara Basin, Turkey**
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- LI. **Engineering geological investigations and the preliminary support design for the proposed Ordu Peripheral Highway Tunnel, Ordu, Turkey**
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- LII. **Evaluation of a compacted bentonite/sand seal for underground waste repository isolation**
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ENVIRONMENTAL GEOLOGY, vol.50, no.3, pp.331-337, 2006 (SCI-Expanded)
- LIII. **Composite landfill liner design with Ankara clay, Turkey**
Met İ., Akgun H.
ENVIRONMENTAL GEOLOGY, vol.47, pp.795-803, 2005 (SCI-Expanded)
- LIV. **Environmental geological and geotechnical investigations related to the potential use of Ankara clay as a compacted landfill liner material, Turkey**
Met İ., Akgun H., Türkmenoğlu A. G.
ENVIRONMENTAL GEOLOGY, vol.47, pp.225-236, 2005 (SCI-Expanded)
- LV. **Stability of expansive cement grout borehole seals emplaced in the vicinity of underground radioactive waste repositories**
Akgun H., DAEMEN J.
ENVIRONMENTAL GEOLOGY, vol.45, no.8, pp.1167-1171, 2004 (SCI-Expanded)
- LVI. **Design of anchorage and assessment of the stability of openings in silty, sandy limestone: a case study in Turkey**

- Akgun H., Koçkar M. K.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.41, pp.37-49, 2004 (SCI-Expanded)
- LVII. **Remediation of the geotechnical problems of the Hasankeyf historical area, southeastern Turkey**
Akgun H.
ENVIRONMENTAL GEOLOGY, vol.44, no.5, pp.522-529, 2003 (SCI-Expanded)
- LVIII. **Engineering geological investigations along the Iliksu Tunnels, Alanya, southern turkey**
Koçkar M. K., Akgun H.
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- LIX. **Methodology for tunnel and portal support design in mixed limestone, schist and phyllite conditions: a case study in Turkey**
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- LX. **Influence of elevated temperature on axially loaded expansive cement grout borehole plug sealing performance**
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- LXIII. **Shear strength of cement-grout borehole plug**
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- LXIV. **Design implications of analytical and laboratory studies of permanent abandonment plugs**
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- LXV. **Assessment of rock slope stability along the proposed Ankara-Pozanti autoroad in Turkey**
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- LXVII. **Analytical and experimental assessment of mechanical borehole sealing performance in rock**
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- LXVIII. **An assessment of borehole sealing performance in a salt environment**
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- LXIX. **Lined waste containment systems: A method for design and performance evaluation**
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- LXX. **Performance assessment of cement grout borehole plugs in basalt**
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Articles Published in Other Journals

- I. **Application of an image processing-based algorithm for river-side granular sediment gradation distribution analysis**
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- II. **Application of fuzzy expert decision-making system for rock slope block-toppling modeling and assessment: a case study**
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- V. **The impact of municipal waste disposal of heavy metals on environmental pollution: A case study for Tonekabon, Iran**
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- VIII. **Preliminary Evaluation of a Compacted Bentonite Sand Mixture as a Landfill Liner Material**
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- XI. **Leakage Detection in Lined Systems**
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Books

- I. **Remediation of the Geotechnical Problems of Small Palace, Hasankeyf Historical Settlement Area**
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in: Salvage Project of the Archeological Heritage of the Ilisu and Carchemish Dam Reservoirs Activities in 2002, N. Tuna, O. Doonan, Editor, ODTÜ TAÇDAM, 2011
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- III. **Strength Parameters of Cement Borehole Seals in Rock**
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- IV. **Leakage in Double Liner Systems: The Containment Objective**
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Refereed Congress / Symposium Publications in Proceedings

- I. **Laboratory Testing of an Optical Fiber-Based Monitoring System Developed for Earthquake-Induced Landslides**
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7th International Conference on Earthquake Engineering and Seismology, ICEES 2023, Antalya, Turkey, 6 - 10 November 2023, vol.401 LNCE, pp.311-318
- II. **Production of GIS-Based Predicted Vs30 Maps for Türkiye by Combining Geological and High-Resolution Topographical Digital Maps**
Şahin G., Okalp K., Koçkar M. K., Yılmaz M. T., Jalehforouzan A., Temiz F. A., Askan Gündoğan A., Akgün H., Erberik M. A.
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- III. **Monitoring of an Unstable Slope in Kocaeli (Türkiye) by an Optical Fiber Based System**
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AKGÜN H., Project Supported by Higher Education Institutions, Jeoteknik Karakterizasyon Sonrası Deterministik Yaklaşımla Şev Stabilitesi Ve Heyelan Duyarlılık Çalışması, 2010 - 2010

AKGÜN H., Project Supported by Higher Education Institutions, Antalya Traverten Zeminlerinin Ve Falezlerinin Jeolojik/jeoteknik Karakterizasyonunun Yapılması Ve Stabilitate Problemlerinin Sayısal Modelleme İle İncelenmesi, 2009 - 2009

Contractual Researches

AKGÜN H., Kocaeli ili Heyelan Hareketlerinin Erken Uyarı Sistemi ile İzlenmesi, Sismik Hareketin ve Diğer Faktörlerin Heyelan Kütle Hareketlerinde Meydana Gelen Deformasyonlar üzerindeki Etkilerinin ve Hassasiyetlerinin İncelenmesi, Sonuç Raporu, Proje Yürütücüsü, 2017 - 2019

AKGÜN H., The Suitability of the Bentonite Enhanced Soil (BES) Landfill Liner of the Konya SWMP Site from a Geotechnical Point of View, Final Report, Principal Investigator, Fichtner Water Transportation GMBH, 2016 - 2016

AKGÜN H., Kocaeli ili Heyelan Hareketlerinin İzlenmesinde Fiber Optik Teknolojisinin Kullanımı, Gelişme Raporu, Proje Yürütücüsü, 2014 - 2014

AKGÜN H., Çeltikçi Kömür Sahasının Jeoteknik Değerlendirmesi, Sonuç Raporu, Asia Minor Mining/İKA Madencilik A.Ş., Proje Yürütücüsü, 2013 - 2013

AKGÜN H., Heyelan Risk Analizi, Takip ve Erken Uyarı Sistemi (HERATEUS), Gelişme Raporu, KOSGEB, Araştırma-Geliştirme, İnovasyon ve Endüstriyel Uygulama Destek Programı, Proje Başdanışmanı, 2013 - 2013

AKGÜN H., Heyelan Risk Analizi, Takip ve Erken Uyarı Sistemi (HERATEUS), Gelişme Raporu, KOSGEB, Araştırma-Geliştirme, İnovasyon ve Endüstriyel Uygulama Destek Programı, Gelişme Raporu, Proje Başkanlığı, 2012 - 2012

AKGÜN H., Çeltikçi Kömür Sahasının Jeoteknik Değerlendirmesi, Gelişme Raporu, Asia Minor Mining/İKA Madencilik A.Ş., Proje Yürütücüsü, 2012 - 2012

AKGÜN H., SARIGÜZEL Barajı ve HES Mansap Batardosu Bulamaç Hendeğinin (Slurry Trench) Performansının Sızıntı Açısından Değerlendirilmesi, Modellenmesi ve Jeoteknik Analizi, Sonuç Raporu, ODTÜ TEKNOKENT/YÜKSEL İNŞAAT A.Ş., Proje Yürütücüsü, 2011 - 2011

AKGÜN H., KANDİL Barajı ve HES İnşaatının Heyelan, Patlatmalar, Deprem ve Nakliye Açısından İnşaat Güvenliği ve Çevre Yerleşimlerdeki Binalar ve Kişiler Üzerindeki Çevresel Etki Riskinin Analizi, Sonuç Raporu, ODTÜ TEKNOKENT/YÜKSEL İNŞAAT A.Ş., Proje Yürütücüsü, 2010 - 2010

AKGÜN H., Bakü-Tiflis-Ceyhan (BTC P/L Project) Petrol Boru Hattı Güzergahının KP 278-KP 743 arası Jeoteknik İncelemesi ve Kritik Şevlerin Analitik ve Nümerik Açısından Şev Stabilitesi Modellemesi ve Analizi, Sonuç Raporu, BP, BOTAS A.Ş. ve ENCON, Proje Yürütücüsü, 2003 - 2004

AKGÜN H., İlisu ve Karkamış Baraj Gölleri Altında Kalacak Arkeolojik Kültür Varlıklarını Kurtarma Projesi-2002 Yılı Çalışmaları; Hasankeyf Yerleşim Alanındaki Küçük Saray'ın Jeoteknik Problemlerinin İyileştirilmesi, ODTÜ TAÇDAM ve DSİ. Proje Yürütücüsü, 2002 - 2002

AKGÜN H., Ankara Doğalgaz Boru Hattı Zeminlerinin Jeolojisinin, Jeotekniğinin ve Depremselliğinin Dinamik Sonlu Eleman Modelleme Yöntemi ile İncelenmesi ve Deprem Riskine Karşı Tasarım Önerilerinin Verilmesi, Sonuç Raporu, GÜRİŞ İnşaat-Müh AŞ, Proje Yürütücüsü, 2001 - 2002

AKGÜN H., Karacabey (Bursa) Belediyesi Yerleşim Alanı Jeolojik-Jeoteknik İncelemesi, Sonuç Raporu, Proje Araştırmacısı, 2000 - 2000

Activities in Scientific Journals

Journal of Environmental Geology, Committee Member, 2017 - Continues

Earth & Environmental Science Research & Reviews, Committee Member, 2017 - Continues

International Journal of Earth Science and Geology, Committee Member, 2017 - Continues

Journal of Earth and Environmental Sciences, Committee Member, 2017 - Continues

Archives of Oil & Gas Research, Committee Member, 2017 - Continues

Disaster Science and Engineering, Assistant Editor/Section Editor, 2016 - Continues

Environmental Geosciences, Committee Member, 2005 - Continues

The Journal of Solid Waste Technology and Management, Assistant Editor/Section Editor, 1995 - Continues

Clay Minerals, Special Issue Editor, 2018 - 2019

Applied Clay Science, Special Issue Editor, 2018 - 2019

Memberships / Tasks in Scientific Organizations

Türkiye Kil Bilimleri Derneği (TKBD), Secretary General, 2010 - Continues

Türkiye Deprem Mühendisliği Derneği (TDMD), Vice President, 2010 - Continues

Scientific Refereeing

BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, SCI Journal, December 2020

SN APPLIED SCIENCES, Journal Indexed in ESCI, December 2020

INTERNATIONAL JOURNAL OF GEOMECHANICS, SCI Journal, October 2020

COMPUTERS & GEOSCIENCES, SCI Journal, October 2020

COMPUTERS AND GEOTECHNICS, SCI Journal, October 2020

NATURAL HAZARDS, SCI Journal, October 2020

ENVIRONMENTAL EARTH SCIENCES, SCI Journal, October 2020
GEOMECHANICS AND ENGINEERING, SCI Journal, August 2020
GEOMECHANICS AND ENGINEERING, SCI Journal, July 2020
COMPUTERS AND GEOTECHNICS, SCI Journal, July 2020
COMPUTERS AND GEOTECHNICS, SCI Journal, July 2020
KSCE JOURNAL OF CIVIL ENGINEERING, SCI Journal, July 2020
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, SCI Journal, May 2020
COMPUTERS AND GEOTECHNICS, SCI Journal, May 2020
Environmental Earth Sciences, SCI Journal, January 2020
Journal of Solid Waste Technology and Management, Other Indexed Journal, December 2018
Journal of Solid Waste Technology and Management, Other Indexed Journal, December 2018
Journal of Solid Waste Technology and Management, Other Indexed Journal, December 2018
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Project Supported by Higher Education Institutions, BAP Research Project, Niğde Ömer Halisdemir Üniversitesi, Turkey, December 2018
Journal of Solid Waste Technology and Management, Other Indexed Journal, October 2018
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Journal of Solid Waste Technology and Management, Other Indexed Journal, October 2018
Journal of Solid Waste Technology and Management, Other Indexed Journal, October 2018
GEOMECHANICS AND ENGINEERING, SCI Journal, October 2018
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, SCI Journal, August 2018
Landslides, SCI Journal, August 2018
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, SCI Journal, July 2018
LANDSLIDES, SCI Journal, July 2018
CLAY MINERALS, SCI Journal, July 2018
Project Supported by Higher Education Institutions, BAP Research Project, Niğde Ömer Halisdemir Üniversitesi, Turkey, June 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, May 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, May 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, May 2018
LANDSLIDES, SCI Journal, May 2018
WASTE MANAGEMENT & RESEARCH, SCI Journal, May 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, May 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, May 2018
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GEOTECHNICAL AND GEOLOGICAL ENGINEERING, SCI Journal, March 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, March 2018
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The 33rd International Conference on Solid Waste Technology and Management, Conference Paper (Full Text), February 2018
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The 33rd International Conference on Solid Waste Technology and Management, Conference Paper (Full Text), February 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, February 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, February 2018
The 33rd International Conference on Solid Waste Technology and Management, Conference Paper (Full Text),

February 2018

The 33rd International Conference on Solid Waste Technology and Management, Conference Paper (Full Text),

February 2018

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February 2018

The 33rd International Conference on Solid Waste Technology and Management, Conference Paper (Full Text),

February 2018

The 33rd International Conference on Solid Waste Technology and Management, Conference Paper (Full Text),

February 2018

Journal of Earth & Environmental Sciences, Other Indexed Journal, January 2018

Journal of Earth & Environmental Sciences, Other Indexed Journal, January 2018

Tasks In Event Organizations

Akgün H., 2. Ulusal Heyelan Sempozyumu (HEYSEMP-2018), Scientific Congress, Ankara, Turkey, Ekim 2018

Akgün H., 2nd International Symposium on Natural Hazards and Disaster Management (ISHAD2018), Scientific Congress, Sakarya, Turkey, Mayıs 2018

Akgün H., The 33rd International Conference on Solid Waste Technology and Management, Annapolis (Washington, D.C.), ABD, 2018, Bilim Kurulu Üyeliği (1 Nisan-31 Aralık, 2017), Scientific Congress, District-Of-Columbia, United States Of America, Mart 2018

Metrics

Publication: 157

Citation (WoS): 1488

Citation (Scopus): 1873

H-Index (WoS): 23

H-Index (Scopus): 26

Congress and Symposium Activities

2. Ulusal Heyelan Sempozyumu (HEYSEMP-2018), Moderator, Ankara, Turkey, 2018

Kıbrıs II. Yerbilimleri Kongresi, Invited Speaker, Lefkoşa, Cyprus (Kktc), 2018

Bizim Şehir Gaziantep Projesi Yol Haritası Çalıştayı, Working Group, Gaziantep, Turkey, 2018

Invited Talks

The Utilization of Ankara Clay as a Compacted Clay Liner at Landfill Sites and Landfill Design, Conference, Cyprus II. Earth Science Congress, Cyprus (Kktc), May 2018

Scholarships

TÜBİTAK/NATO Yurtdışı Doktora Bursu, TUBİTAK, 1982 - 1986

Awards

Akgün H., Kaya ve zemin mekaniği konularının nükleer atık depolama haznelerinin izolasyonuna uygulanması, katı atık deponi sahası tasarımı ile çevresel etki ve çevresel risk değerlendirilmesine katkıları nedeniyle ödüle layık görülme, Mustafa Parlar Vakfı Araştırma Teşvik Ödülü, October 1998

Akgün H., O.D.T.Ü. Geliştirme Vakfı tarafından "Sealing of Boreholes and Underground Excavations in Rock" kitabına katkılarından dolayı ödül, Odtü Geliştirme Vakfı Ödülü, January 1998

Non Academic Experience

GEOTECH, INC., MAPLE SHADE, NEW JERSEY, USA, SENIOR GEOTECHNICAL/GEOENVIRONMENTAL ENGINEER

Company, Geotech, Inc., Maple Shade, New Jersey, USA, Geotechnical/Geo-environmental Engineering Division, Senior Geotechnical/Geo-environmental Engineer

ENVIRONTech CONSULTANTS, INC., BOCA RATON, FLORIDA, USA, SENIOR STAFF ENGINEER

Company, Environtech Consultants, Inc., Boca Raton, Florida, USA, Geotechnical/Geo-Environmental Engineering Division, Senior Geotechnical/Geo-environmental Engineer and Senior Design Associate