

Prof. HALUK AKGÜN

Personal Information

Office Phone: [+90 210 572 7](tel:+902105727)

Fax Phone: [+90 210 575 0](tel:+902105750)

Email: hakgun@metu.edu.tr

Web: <https://avesis.metu.edu.tr/hakgun>

Address: ODTÜ Jeoloji Mühendisliği Bölümü Dumlupınar Bulvarı No. 1

International Researcher IDs

ScholarID: Q712wd0AAAAJ

ORCID: 0000-0003-0404-5647

Publons / Web Of Science ResearcherID: ABA-2218-2020

ScopusID: 7003587987

Yoksis Researcher ID: 6028

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

1. **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**

Şahin G., Okalp K., Koçkar M. K., Yılmaz M. T., Jalehforouzan A., Temiz F. A., Askan Gündoğan A., Akgün H., Erberik M. A.

Seismological Research Letters, vol.95, no.4, pp.2044-2057, 2024 (SCI-Expanded)

- II. **Engineering geological characterization and assessment of complex rock slope failures in Mudurnu, Turkey**
Arslan Kelam A., AKGÜN H., Bobet A., KOÇKAR M. K.
Natural Hazards, vol.120, no.4, pp.3271-3298, 2024 (SCI-Expanded)
- III. **Development of a three-dimensional basin model to evaluate the site effects in the tectonically active near-fault region of Golyaka basin, Duzce, Turkey**
Yousefi-Bavil K., KOÇKAR M. K., AKGÜN H.
NATURAL HAZARDS, vol.114, no.1, pp.941-969, 2022 (SCI-Expanded)
- IV. **Deep learning-based key-block classification framework for discontinuous rock slopes**
Zhu H., Azarafza M., AKGÜN H.
Journal of Rock Mechanics and Geotechnical Engineering, vol.14, no.4, pp.1131-1139, 2022 (SCI-Expanded)
- V. **Landslide Susceptibility Assessment by Using Convolutional Neural Network**
Nikoobakht S., Azarafza M., AKGÜN H., Derakhshani R.
Applied Sciences (Switzerland), vol.12, no.12, 2022 (SCI-Expanded)
- VI. **Landslide susceptibility assessment in medium-scale: case studies from the major drainage basins of Turkey**
OKALP K., AKGÜN H.
ENVIRONMENTAL EARTH SCIENCES, vol.81, no.8, 2022 (SCI-Expanded)
- VII. **Application of an optical fiber-based system for mass movement monitoring**
Kelam A., AKGÜN H., KOÇKAR M. K.
ENVIRONMENTAL EARTH SCIENCES, vol.81, no.5, 2022 (SCI-Expanded)
- VIII. **An evaluation of seismic hazard and potential damage in Gaziantep, Turkey using site specific models for sources, velocity structure and building stock**
ARSLAN KELAM A., Karimzadeh S., Yousefibavil K., AKGÜN H., ASKAN GÜNDOĞAN A., ERBERİK M. A., KOÇKAR M. K., PEKCAN O., Ciftci H.
Soil Dynamics and Earthquake Engineering, vol.154, 2022 (SCI-Expanded)
- IX. **Numerical analysis and stability assessment of complex secondary toppling failures: A case study for the south pars special zone**
Azarafza M., Bonab M. H., AKGÜN H.
GEOMECHANICS AND ENGINEERING, vol.27, no.5, pp.481-495, 2021 (SCI-Expanded)
- X. **Deep learning-based landslide susceptibility mapping**
Azarafza M., Azarafza M., AKGÜN H., Atkinson P. M., Derakhshani R.
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- XI. **Discontinuous rock slope stability analysis by limit equilibrium approaches - a review**
Azarafza M., AKGÜN H., Ghazifard A., Asghari-Kaljahi E., Rahnamarad J., Derakhshani R.
INTERNATIONAL JOURNAL OF DIGITAL EARTH, vol.14, no.12, pp.1918-1941, 2021 (SCI-Expanded)
- XII. **Key-block based analytical stability method for discontinuous rock slope subjected to toppling failure**
Azarafza M., AKGÜN H., Ghazifard A., Asghari-Kaljahi E.
Computers and Geotechnics, vol.124, 2020 (SCI-Expanded)
- XIII. **Displacement monitoring, displacement verification and stability assessment of the critical sections of the Konak tunnel, Izmir, Turkey**
Yertutanol K., AKGÜN H., Sopaci E.
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, vol.101, 2020 (SCI-Expanded)
- XIV. **Application of the modified Q-slope classification system for sedimentary rock slope stability assessment in Iran**
Azarafza M., Nanehkaran Y. A., Rajabion L., AKGÜN H., Rahnamarad J., Derakhshani R., Raoof A.
ENGINEERING GEOLOGY, vol.264, 2020 (SCI-Expanded)

- XV. **Geotechnical characteristics and empirical geo-engineering relations of the South Pars Zone marls, Iran**
Azarafza M., Ghazifard A., AKGÜN H., Asghari-Kaljahi E.
GEOMECHANICS AND ENGINEERING, vol.19, no.5, pp.393-405, 2019 (SCI-Expanded)
- XVI. **Correlations of SPT, CPT and pressuremeter test data in alluvial soils. Case study: Tabriz Metro Line 2, Iran**
Firuzi M., Asghari-Kaljahi E., Akgün H.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.78, pp.5067-5086, 2019 (SCI-Expanded)
- XVII. **An empirical strength criterion for the Antalya tufa rock, southern Turkey**
Sopaci E., AKGÜN H., Daemen J. J. K.
ENVIRONMENTAL EARTH SCIENCES, vol.78, no.18, 2019 (SCI-Expanded)
- XVIII. **Development of a 2D and 3D computational algorithm for discontinuity structural geometry identification by artificial intelligence based on image processing techniques**
Azarafza M., Ghazifard A., Akgün H., Asghari-Kaljahi E.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.78, pp.3371-3383, 2019 (SCI-Expanded)
- XIX. **Geothermal resource assessment of the Gediz Graben utilizing TOPSIS methodology**
Cambazoglu S., Yal G. P., Eker A. M., Sen O., Akgün H.
GEOTHERMICS, vol.80, pp.92-102, 2019 (SCI-Expanded)
- XX. **Landslide susceptibility assessment of South Pars Special Zone, southwest Iran**
Azarafza M., Ghazifard A., Akgün H., Asghari-Kaljahi E.
ENVIRONMENTAL EARTH SCIENCES, vol.77, 2018 (SCI-Expanded)
- XXI. **Assessment of the effect of mineralogy on the geotechnical parameters of clayey soils: A case study for the Orta County, cankiri, Turkey**
Akgün H., Turkmenoglu A. G., Arslan Kelam A., Yousefi-Bavil K., Oner G., Koçkar M. K.
APPLIED CLAY SCIENCE, vol.164, pp.44-53, 2018 (SCI-Expanded)
- XXII. **MCM2016-special issue of applied clay science Preface**
Turkmenoglu A. G., Akgun H.
APPLIED CLAY SCIENCE, vol.164, pp.1, 2018 (SCI-Expanded)
- XXIII. **Evaluation of a sand bentonite mixture as a shaft/borehole sealing material**
AKGÜN H., KOÇKAR M. K.
APPLIED CLAY SCIENCE, vol.164, pp.34-43, 2018 (SCI-Expanded)
- XXIV. **Stochastic geometry model of rock mass fracture network in tunnels**
Azarafza M., Akgün H., Asghari-Kaljahi E.
QUARTERLY JOURNAL OF ENGINEERING GEOLOGY AND HYDROGEOLOGY, vol.51, pp.379-386, 2018 (SCI-Expanded)
- XXV. **Assessment of rock slope stability by slope mass rating (SMR): A case study for the gas flare site in Assalouyeh, South of Iran**
AZARAFZA M., Akgun H., ASGHARI-KALJAHİ E.
GEOMECHANICS AND ENGINEERING, vol.13, no.4, pp.571-584, 2017 (SCI-Expanded)
- XXVI. **The use of Ankara Clay as a compacted clay liner for landfill sites**
Akgün H., Turkmenoglu A. G., Met I., Yal G. P., Koçkar M. K.
CLAY MINERALS, vol.52, pp.391-412, 2017 (SCI-Expanded)
- XXVII. **Numerical modeling of discontinuous rock slopes utilizing the 3DDGM (three-dimensional discontinuity geometrical modeling) method**
AZARAFZA M., ASGHARI-KALJAHİ E., AKGÜN H.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.76, no.3, pp.989-1007, 2017 (SCI-Expanded)
- XXVIII. **Assessment of discontinuous rock slope stability with block theory and numerical modeling: a case study for the South Pars Gas Complex, Assalouyeh, Iran**
AZARAFZA M., ASGHARI-KALJAHİ E., Akgun H.
ENVIRONMENTAL EARTH SCIENCES, vol.76, no.11, 2017 (SCI-Expanded)
- XXIX. **A generalized seismic source model for the Eastern Marmara Region along the segments of the**

North Anatolian Fault System

Cambazoğlu S., Kockar M. K., Akgun H.

SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.88, pp.412-426, 2016 (SCI-Expanded)

- XXX. **Geotechnical Assessment of Compacted Sand Bentonite Mixtures to be Utilized in Underground Nuclear Waste Repositories and Barrier Design**
Akgün H., Ada M., Koçkar M. K.
TEKNIK DERGI, vol.27, pp.7477-7496, 2016 (SCI-Expanded)
- XXXI. **National level landslide susceptibility assessment of Turkey utilizing public domain dataset**
Okalp K., Akgun H.
ENVIRONMENTAL EARTH SCIENCES, vol.75, 2016 (SCI-Expanded)
- XXXII. **Engineering geological characterization of the Antalya karstic rocks, southern Turkey**
Sopacı E., Akgun H.
ENVIRONMENTAL EARTH SCIENCES, vol.75, 2016 (SCI-Expanded)
- XXXIII. **Geotechnical assessment and engineering classification of the Antalya tufa rock, southern Turkey**
Sopacı E., Akgun H.
ENGINEERING GEOLOGY, vol.197, pp.211-224, 2015 (SCI-Expanded)
- XXXIV. **Geotechnical evaluation of Ankara clay as a compacted clay liner**
Met I., Akgün H.
ENVIRONMENTAL EARTH SCIENCES, vol.74, pp.2991-3006, 2015 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **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.
ENVIRONMENTAL EARTH SCIENCES, vol.73, pp.6101-6116, 2015 (SCI-Expanded)
- XXXVII. **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.
International Journal of Geographical Information Science, vol.29, pp.132-158, 2015 (SCI-Expanded)
- XXXVIII. **Investigation of the failure mechanism and stabilization of a landslide in weathered tuffite, Giresun, northeastern Turkey**
Avsar O., Akgün H., Kockar M. K.
ENVIRONMENTAL EARTH SCIENCES, vol.72, pp.3723-3740, 2014 (SCI-Expanded)
- XXXIX. **Landfill site selection utilizing TOPSIS methodology and clay liner geotechnical characterization: a case study for Ankara, Turkey**
Yal G. P., Akgun H.
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.73, pp.369-388, 2014 (SCI-Expanded)
- XL. **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.
TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, vol.40, pp.277-299, 2014 (SCI-Expanded)
- XLI. **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)
- XLII. **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.
ENGINEERING GEOLOGY, vol.151, pp.64-81, 2012 (SCI-Expanded)
- XLIII. **Evaluation of the site effects of the Ankara basin, Turkey**
Kockar M. K., Akgün H.

JOURNAL OF APPLIED GEOPHYSICS, vol.83, pp.120-134, 2012 (SCI-Expanded)

- XLIV. **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**
Eker A. M., Dikmen M., Cambazoğlu S., Düzgün Ş. H., AKGÜN H.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.27, no.1, pp.163-173, 2012 (SCI-Expanded)
- XLV. **Geotechnical characterization and performance assessment of bentonite/sand mixtures for underground waste repository sealing**
Akgun H.
APPLIED CLAY SCIENCE, vol.49, no.4, pp.394-399, 2010 (SCI-Expanded)
- XLVI. **Evaluation of site conditions for the Ankara Basin of Turkey based on seismic site characterization of near-surface geologic materials**
Kockar M. K., Akgün H., Rathje E. M.
SOIL DYNAMICS AND EARTHQUAKE ENGINEERING, vol.30, pp.8-20, 2010 (SCI-Expanded)
- XLVII. **Stability Charts for the Collapse of Residual Soil in Karst**
DRUMM E. C., Akturk O., Akgun H., Tutluoglu L.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, vol.135, no.7, pp.925-931, 2009 (SCI-Expanded)
- XLVIII. **Development of a geotechnical and geophysical database for seismic zonation of the Ankara Basin, Turkey**
Koçkar M. K., AKGÜN H.
Environmental Geology, vol.55, no.1, pp.165-176, 2008 (SCI-Expanded)
- XLIX. **Engineering geological investigations and the preliminary support design for the proposed Ordu Peripheral Highway Tunnel, Ordu, Turkey**
Sopaci E., Akgün H.
ENGINEERING GEOLOGY, vol.96, pp.43-61, 2008 (SCI-Expanded)
- L. **Evaluation of a compacted bentonite/sand seal for underground waste repository isolation**
Akgun H., KOÇKAR M. K., AKTÜRK Ö.
ENVIRONMENTAL GEOLOGY, vol.50, no.3, pp.331-337, 2006 (SCI-Expanded)
- LI. **Composite landfill liner design with Ankara clay, Turkey**
Met İ., Akgun H.
ENVIRONMENTAL GEOLOGY, vol.47, pp.795-803, 2005 (SCI-Expanded)
- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **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)
- LVI. **Engineering geological investigations along the Iliksu Tunnels, Alanya, southern turkey**
Koçkar M. K., Akgun H.

- ENGINEERING GEOLOGY, vol.68, pp.141-158, 2003 (SCI-Expanded)
- LVII. Methodology for tunnel and portal support design in mixed limestone, schist and phyllite conditions: a case study in Turkey**
Koçkar M. K., Akgun H.
INTERNATIONAL JOURNAL OF ROCK MECHANICS AND MINING SCIENCES, vol.40, pp.173-196, 2003 (SCI-Expanded)
- LVIII. Influence of elevated temperature on axially loaded expansive cement grout borehole plug sealing performance**
Akgun H., Daemen J.
MAGAZINE OF CONCRETE RESEARCH, vol.52, no.5, pp.379-394, 2000 (SCI-Expanded)
- LIX. Environmental geological investigations at the Van open dump site, southeastern Turkey**
Akgun H., Doyuran V.
ENVIRONMENTAL GEOLOGY, vol.39, no.6, pp.660-666, 2000 (SCI-Expanded)
- LX. Influence of degree of saturation on the borehole sealing performance of an expansive cement grout**
Akgun H., Daemen J.
CEMENT AND CONCRETE RESEARCH, vol.30, no.2, pp.281-289, 2000 (SCI-Expanded)
- LXI. Shear strength of cement-grout borehole plug**
Akgun H.
IN SITU, vol.24, pp.107-137, 2000 (SCI-Expanded)
- LXII. Design implications of analytical and laboratory studies of permanent abandonment plugs**
Akgun H., Daemen J.
CANADIAN GEOTECHNICAL JOURNAL, vol.36, no.1, pp.21-38, 1999 (SCI-Expanded)
- LXIII. Assessment of rock slope stability along the proposed Ankara-Pozanti autoroad in Turkey**
Avci K., Akgun H., Doyuran V.
ENVIRONMENTAL GEOLOGY, vol.37, pp.137-144, 1999 (SCI-Expanded)
- LXIV. Assessment of rock slope stability along the proposed Ankara-Pozant, autoroad in Turkey**
Avci K., AKGÜN H., Doyuran V.
Environmental Geology, vol.37, pp.137-144, 1999 (SCI-Expanded)
- LXV. Analytical and experimental assessment of mechanical borehole sealing performance in rock**
Akgun H., Daemen J.
ENGINEERING GEOLOGY, vol.47, no.3, pp.233-241, 1997 (SCI-Expanded)
- LXVI. An assessment of borehole sealing performance in a salt environment**
Akgun H.
ENVIRONMENTAL GEOLOGY, vol.31, pp.34-41, 1997 (SCI-Expanded)
- LXVII. Lined waste containment systems: A method for design and performance evaluation**
Akgun H.
ENVIRONMENTAL GEOLOGY, vol.30, pp.209-214, 1997 (SCI-Expanded)
- LXVIII. Performance assessment of cement grout borehole plugs in basalt**
Akgun H., Daemen J. J.
Engineering Geology, vol.37, no.2, pp.137-148, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. Application of an image processing-based algorithm for river-side granular sediment gradation distribution analysis**
Azarafza M., Nanehkaran Y. A., AKGÜN H., Mao Y.
ADVANCES IN MATERIALS RESEARCH-AN INTERNATIONAL JOURNAL, vol.10, no.3, pp.229-244, 2021 (ESCI)
- II. Application of fuzzy expert decision-making system for rock slope block-toppling modeling and assessment: a case study**
Azarafza M., Asghari-Kaljahi E., Ghazifard A., AKGÜN H.

MODELING EARTH SYSTEMS AND ENVIRONMENT, vol.7, no.1, pp.159-168, 2021 (ESCI)

- III. **An evaluation of the geotechnical characteristics of Gahirat marble using empirical methods: A case study from the Chitral area, Khyber Pakhtunkhwa, North Pakistan**
Bukhari S. A. A., Basharat M., AKGÜN H., Sarfraz Y., Riaz M. T.
JOURNAL OF HIMALAYAN EARTH SCIENCES, vol.54, no.2, pp.28-39, 2021 (ESCI)
- IV. **Clustering method for spread pattern analysis of corona - virus (COVID - 19) infection in Iran**
Azarafza M., Azarafza M., Akgün H.
Journal of Applied Science, Engineering, Technology, and Education, vol.3, no.1, pp.1-6, 2021 (Peer-Reviewed Journal)
- V. **The impact of municipal waste disposal of heavy metals on environmental pollution: A case study for Tonekabon, Iran**
Azizpour A., Azarafza M., AKGÜN H.
ADVANCES IN ENVIRONMENTAL RESEARCH-AN INTERNATIONAL JOURNAL, vol.9, no.3, pp.175-189, 2020 (ESCI)
- VI. **Discontinuous rock slope stability analysis under blocky structural sliding by fuzzy key-block analysis method**
Azarafza M., AKGÜN H., Feizi-Derakhshi M., Azarafza M., Rahnamarad J., Derakhshani R.
HELIYON, vol.6, no.5, 2020 (ESCI)
- VII. **Utilization of Optical Fiber System for Mass Movement Monitoring**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
Disaster Science and Engineering, vol.2, pp.19-24, 2016 (Peer-Reviewed Journal)
- VIII. **Preliminary Evaluation of a Compacted Bentonite Sand Mixture as a Landfill Liner Material**
AKGÜN H., KOÇKAR M. K., AKTÜRK Ö.
The Journal of Solid Waste Technology and Management, vol.31, pp.187-192, 2005 (Peer-Reviewed Journal)
- IX. **Utilization of Ankara Clay for Sanitary Landfill Bottom Liners Turkey**
AKGÜN H., WALLACE R. B.
The Journal of Solid Waste Technology and Management, vol.31, pp.193-197, 2005 (Peer-Reviewed Journal)
- X. **İlksu Tünellerinin Jeoteknik Değerlendirmesi Geotechnical Evaluation of the İlksu Tunnels**
Koçkar M. K., Akgün H.
TEKNİK DERGİ, vol.15, pp.3191-3214, 2004 (Peer-Reviewed Journal)
- XI. **Leakage Detection in Lined Systems**
AKGÜN H., WALLACE R. B.
The Journal of Solid Waste Technology and Management, vol.23, pp.67-71, 1996 (Peer-Reviewed Journal)
- XII. **Strength of Cement Grout Plugs in Salt**
AKGÜN H., DAEMEN J. J.
Transactions of the Society for Mining, Metallurgy, and Exploration, Inc. (SME), vol.296, pp.1818-1821, 1994 (Peer-Reviewed Journal)
- XIII. **Solid Waste Containment in Double Lined Systems**
AKGÜN H., WALLACE R. B.
The Journal of Resource Management and Technology, vol.21, pp.137-141, 1993 (Peer-Reviewed Journal)
- XIV. **Size influence on the sealing performance of cementitious borehole plugs.**
Akgun H., Daemen J.
1986 (Scopus)

Books & Book Chapters

- I. **Remediation of the Geotechnical Problems of Small Palace, Hasankeyf Historical Settlement Area**
AKGÜN H.
in: Salvage Project of the Archeological Heritage of the İlksu and Carchemish Dam Reservoirs Activities in 2002, N. Tuna, O. Doonan, Editor, ODTÜ TAÇDAM, 2011
- II. **Geotechnical Problems of Hasankeyf Settlement Area**

VEDAT D., TOPRAK V., AKGÜN H.

in: Salvage Project of the Archeological Heritage of the Ilisu and Carchemish Dam Reservoirs Activities in 1999 Ilisu ve Karkamış Baraj Gölleri altında kalacak arkeolojik ve kültür varlıklarını kurtarma projesi 1999 yılı çalışmaları, N. Tuna, J. Öztürk and J. Velibeyoğlu, Editor, ODTÜ TAÇDAM, 2001

III. Strength Parameters of Cement Borehole Seals in Rock

AKGÜN H.

in: Sealing of Boreholes and Underground Excavations in Rock, K. Fuenkajorn, J.J.K. Daemen, Editor, Chapman and Hall, Londrina, pp.28-39, 1996

IV. Leakage in Double Liner Systems: The Containment Objective

AKGÜN H., WALLACE R. B.

in: Landfilling of Waste Barriers, T.H. Christensen, R. Cossu, R. Stegmann, Editor, E FN Spon, Londrina, pp.81-89, 1994

Refereed Congress / Symposium Publications in Proceedings

I. Laboratory Testing of an Optical Fiber-Based Monitoring System Developed for Earthquake-Induced Landslides

Arslan Kelam A., Demir C., Şahin G., Kaya Y. E., Karabulut A. K., Ural B., Özşimşir A. E., Koçkar M. K., Akgün H., Temiz F. A.

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., Jaleforouzan A., Temiz F. A., Askan Gündoğan A., Akgün H., Erberik M. A.

7th International Conference on Earthquake Engineering and Seismology, 7ICEES 2023, Antalya, Turkey, 6 - 10 November 2023, vol.488 LNCE, pp.167-174

III. Monitoring of an Unstable Slope in Kocaeli (Türkiye) by an Optical Fiber Based System

Arslan Kelam A., Koçkar M. K., Akgün H.

57th US Rock Mechanics/Geomechanics Symposium, Georgia, United States Of America, 25 - 28 June 2023

IV. Hydromechanical Behavior of a Tuff/Bentonite Mixture Treated with Cement

Demdoun A., Daheur E. G., Loualbia H., Bounouara Z., Ghembaza M. S., AKGÜN H.

6th International Conference on Geotechnics, Civil Engineering and Structures, CIGOS 2021, Hả Long Bay, Vietnam, 28 - 29 October 2021, vol.203, pp.1103-1112

V. Assessment of kinematic rock slope failures in Mudurnu Valley, Turkey

ARSLAN KELAM A., AKGÜN H., Bobet A., KOÇKAR M. K.

EUROCK 2021 Conference on Rock Mechanics and Rock Engineering from Theory to Practice, Turin, Virtual, Italy, 20 - 25 September 2021, vol.833

VI. Application of an Optical Fiber Based Monitoring System to a Mass Movement Area

ARSLAN KELAM A., KOÇKAR M. K., AKGÜN H.

54th US Rock Mechanics/Geomechanics Symposium, United States Of America, 28 June - 01 July 2020

VII. GEOTECHNICAL AND SEISMIC CHARACTERIZATION FOR THE ORTA DISTRICT, ÇANKIRI

EKER A. M., AKGÜN H., KOÇKAR M. K.

5. International Conference on Earthquake Engineering and Seismology (5ICEES), Ankara, Turkey, 8 - 11 October 2019, pp.1-10

VIII. THE COMPARISON OF 2007 AND 2018 TURKISH BUILDING CODE OF SITE CLASSIFICATION

PROCEDURE FOR SEISMIC DESIGN BASED ON SEISMIC SITE CHARACTERIZATION STUDIES- A CASE STUDY FOR ANKARA

KOÇKAR M. K., AKGÜN H.

5. International Conference on Earthquake Engineering and Seismology (5ICEES), Ankara, Turkey, 8 - 11 October

2019, pp.1-10

- IX. **APPLICATION OF A LANDSLIDE MONITORING SYSTEM TO AN EARTHQUAKE PRONE REGION BY USING OPTICAL FIBER TECHNOLOGY**
ARSLAN KELAM A., KOÇKAR M. K., AKGÜN H.
5. International Conference on Earthquake Engineering and Seismology (5. ICEES), Ankara, Turkey, 8 - 11 October 2019
- X. **An Optical Fiber Early Warning System for Monitoring Mass Movements and for Assessing the Effect of the Triggering Factors**
ARSLAN KELAM A., KOÇKAR M. K., AKGÜN H.
ENGCEO'2019: National Symposium on Engineering Geology and Geotechnics, Denizli, Turkey, 3 - 05 October 2019
- XI. **A Landslide Monitoring Methodology Applied to a Seismically Active Region by Using Optical Fiber Systems**
ARSLAN KELAM A., KOÇKAR M. K., AKGÜN H.
VI. International Earthquake Symposium (IESKO) 2019, Kocaeli, Turkey, 25 - 27 September 2019
- XII. **Konya Killi Zeminlerinin Jeoteknik Uygulamalar İçin Bentonit İle İyileştirilmesi**
ARSLAN KELAM A., AKGÜN H., Öner G., KOÇKAR M. K.
18. Ulusal Kil Sempozyumu, Kocaeli, Turkey, 25 - 28 September 2019
- XIII. **An Optical Fiber Based Early Warning System for Large Landslides**
ARSLAN KELAM A., KOÇKAR M. K., AKGÜN H.
European Geosciences Union General Assembly (EGU), Viyana, Austria, 7 - 12 April 2019
- XIV. **MUDURNU VADİSİ KOMPLEKS KİNEMATİK YENİLME MEKANİZMALARININ İHA TEKNOLOJİSİ VE HAT ETÜDLERİ KULLANILARAK DEĞERLENDİRİLMESİ**
Arslan A., Akgün H., Koçkar M. K.
2. Ulusal Heyelan Sempozyumu, Ankara, Turkey, 11 - 12 October 2018
- XV. **FİBER OPTİK TABANLI HEYELAN İZLEME VE ERKEN UYARI SİSTEMİ**
Arslan A., Koçkar M. K., Akgün H.
2. Ulusal Heyelan Sempozyumu, Ankara, Turkey, 11 - 12 October 2018
- XVI. **MUDURNU YAMAÇ ŞEVLERİNDEKİ DURAYSIZLIKLARIN İNSAN YAŞAMI VE TARİHİ YAPILAR İÇİN OLUŞTURDUĞU TEHDİT AÇISINDAN DEĞERLENDİRİLMESİ VE ÇÖZÜM ÖNERİLERİ**
Arslan A., Akgün H., Koçkar M. K.
International Symposium on Mudurnu Studies, Akhism and Folk Culture, Bolu, Turkey, 21 - 22 September 2018, pp.341-348
- XVII. **Analysis and remediation of the structurally controlled rock failures during tunneling: A case study along the Black Sea coastal highway in northern Turkey**
Koçkar M., Muratlı S., Akgün H.
2nd International Discrete Fracture Network Engineering Conference, DFNE 2018, Washington, United States Of America, 20 - 22 June 2018
- XVIII. **Evaluation of the complex kinematic failure mechanisms along Mudurnu Valley, Bolu, Turkey through the utilization of UAV**
Kelam A., Akgün H., Koçkar M.
2nd International Discrete Fracture Network Engineering Conference, DFNE 2018, Washington, United States Of America, 20 - 22 June 2018
- XIX. **DEVELOPMENT OF A 3-D TOPOGRAPHICAL BASIN STRUCTURE BASED ON SEISMIC AND GEOTECHNICAL DATA: CASE STUDY AT A HIGH SEISMICITY AREA OF GÖLYAKA, DÜZCE, TURKEY**
Yousefıbavıl K., Koçkar M. K., Akgün H.
16th European Conference on Earthquake Engineering (16ECEE), Thessaloniki, Greece, 18 - 21 June 2018, pp.1-11
- XX. **A UAV Supported Evaluation of the Complex Kinematic Failures for the Discontinuous Rock Mass Slopes of Mudurnu Valley**
ARSLAN A., AKGÜN H., KOÇKAR M. K.
2nd International Symposium on Natural Hazards and Disaster Management (ISHAD2018), 4 - 06 May 2018
- XXI. **Evaluating modes of failure zones of the rock masses along Mudurnu Valley (Turkey) by using a**

unmanned aerial vehicle

Arslan A., Koçkar M. K., Akgün H.

European Geosciences Union General Assembly (EGU), Vienna, Austria, 8 - 13 April 2018, pp.13370

- XXII. **3-D basin geometry model to determine the site effects based on geophysical and geotechnical data: Case study at near-field and high seismicity area of Gölyaka, Düzce, Turkey.**
Yousefibavil K., Koçkar M. K., Akgün H.
European Geosciences Union General Assembly (EGU), Vienna, Austria, 8 - 13 April 2018, pp.14633
- XXIII. **Heyelan Hareketlerinin Fiber Optik Sistemlerle İzlenmesi ve Değerlendirilmesi**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
7. Uluslararası Katılımlı Geoteknik Sempozyumu, İstanbul, Turkey, 22 - 24 November 2017
- XXIV. **NEAR FIELD SEISMIC SITE RESPONSE ANALYSIS OF ALLUVIAL BASIN: A CASE STUDY FOR THE GÖLYAKA, DÜZCE, TURKEY**
YOUSEFİ BAVİL K., KOÇKAR M. K., AKGÜN H.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017
- XXV. **SİSMİK AKTİVİTENİN VE YAĞIŞ DURUMUNUN HEYELANHAREKETLERİNE ETKİSİNİN FİBER OPTİK SİSTEMLERLEİZLENMESİ VE DEĞERLENDİRİLMESİ**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017
- XXVI. **ASTER UYDU GÖRÜNTÜLERİNDEN ÇİZGİSELLİK ANALİZİ YAPILARAK VE LİTERATÜR KULLANILARAK DOĞU MARMARA BÖLGESİ İÇİN SİSMİK KAYNAK MODELİ OLUŞTURULMASI**
CAMBAZOĞLU S., KOÇKAR M. K., AKGÜN H.
4. Uluslararası Deprem Mühendisliği ve Sismoloji Konferansı, Eskişehir, Turkey, 11 - 13 October 2017
- XXVII. **YERALTI NÜKLEER ATIK HAZNELERİNDE KULLANILABİLECEK SIKIŞTIRILMIŞ BENTONİT/KUM BARİYERLERİN JEOTEKNİK DEĞERLENDİRMESİ**
AKGÜN H., KOÇKAR M. K.
17. Ulusal Kil Sempozyumu, Muğla, Turkey, 4 - 07 October 2017
- XXVIII. **ORTA KİLİNİN MİNERALojİK ÖZELLİKLERİ**
AKGÜN H., Günal Türkmenoğlu A., ARSLAN A., YOUSEFİBAVİL K., ÖNER G., KOÇKAR M. K.
17. Ulusal Kil Sempozyumu, Muğla, Turkey, 4 - 07 October 2017
- XXIX. **ORTA KİLİ MİNERALojİK ÖZELLİKLERİNİN JEOTEKNİK PARAMETRELERE ETKİSİ**
AKGÜN H., Günal Türkmenoğlu A., ARSLAN A., YOUSEFİBAVİL K., ÖNER G., KOÇKAR M. K.
17. Ulusal Kil Sempozyumu, Muğla, Turkey, 4 - 07 October 2017
- XXX. **ANKARA KİLİNİN ATIK DEPOLAMA SAHALARI İÇİN SIKIŞTIRILMIŞ KİL ÖRTÜSÜ OLARAK KULLANIMI**
Akgün H., Türkmenoğlu A. G., Met İ., Öner G., Koçkar M. K.
17. Ulusal Kil Sempozyumu, Turkey, 4 - 07 October 2017
- XXXI. **Kocaeli ili Heyelan Hareketlerinin İzlenmesinde Fiber-Optik Teknolojisinin Kullanılması**
AKGÜN H., KOÇKAR M. K.
4'ÜNCÜ ULUSLARARASI DEPREM GERÇEĞİ VE KENTLEŞME ÇALIŞTAYI, Kocaeli, Turkey, 16 - 17 August 2017
- XXXII. **Monitoring Bahçecik Landslide in Kocaeli Using Optical Fibers**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
Geotechnical Aspects of Damages Caused by Natural Phenomena-7th Conference of Croatian Geotechnical Society with International Participation, Varazhdin, Croatia, 10 - 12 November 2016, pp.211-216
- XXXIII. **Monitoring Bahçecik landslide in Kocaeli using optical fibers**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
7th Conference of Croatian Geotechnical Society with International Participation, Varazhdin, Croatia, 10 - 12 November 2016
- XXXIV. **Assessment of the Effect of Mineralogy on the Geotechnical Parameters of Clayey Soils A Case Study for Orta County Çankırı Turkey**
AKGÜN H., TÜRKMENoĞLU A. G., ARSLAN A., ÖNER G., YOUSEFİBAVİL K., KOÇKAR M. K., EKER A. M.
5th Mediterranean Clay Meeting, Çeşme, İzmir, Turkey, 25 - 29 September 2016, pp.9
- XXXV. **Evaluation of a Sand Bentonite Mixture as a Shaft Borehole Sealing Material**

- AKGÜN H., ADA M., KOÇKAR M. K.
5th Mediterranean Clay Meeting, Çeşme, İzmir, Turkey, 25 - 29 September 2016, pp.11
- XXXVI. **The Use of Ankara Clay as a Compacted Clay Liner for Landfill Sites**
AKGÜN H., TÜRKMENÖĞLU A. G., YAL G. P., MET İ.
5th Mediterranean Clay Meeting, Çeşme, İzmir, Turkey, 25 - 29 September 2016, pp.10
- XXXVII. **ASSESSMENT OF THE EFFECT OF MINERALOGY ON THE GEOTECHNICAL PARAMETERS OF CLAYEY SOILS A CASE STUDY FOR ORTA COUNTY ÇANKIRI**
AKGÜN H., Günel Türkmenoğlu A., ARSLAN A., öner g., Yousefibavil K., KOÇKAR M. K., Eker A. M.
5th Mediterranean Clay Meeting, İzmir, Turkey, 25 - 29 September 2016
- XXXVIII. **Geotechnical Properties and Permeability of Compacted Clay in the Gölbaşı Region Ankara**
AKGÜN H.
The 31st International Conference on Solid Waste Technology and Management, Philadelphia, United States Of America, 3 - 06 April 2016, pp.81-84
- XXXIX. **KÜTLE HAREKETLERİNİN İZLENMESİNDE FİBER OPTİK SİSTEMLERİN KULLANIMI**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
Uluslararası Doğal Afet ve Afet Yönetimi Sempozyumu (DAAYS'16), Karabük, Turkey, 2 - 04 March 2016
- XL. **Utilization of Optical Fiber System for Mass Movement Monitoring**
ARSLAN A., KOÇKAR M. K., AKGÜN H.
The Proceedings of International Symposium on Natural Hazards and Hazard Management 2016, Karabük, Turkey, 2 - 04 March 2016, pp.333-338
- XLII. **Integration of Surface Wave Seismic Survey Testing Results and Segmented Seismic Source Model of NAFS for PSHA of the Gölyaka Düzce Tectonic Basin Turkey**
YOUSEFİBAVİL K., AKGÜN H., EKER A. M., CAMBAZOĞLU S., KOÇKAR M. K.
International Conference on Earthquake Geotechnical Engineering, Christchurch, New Zealand, 1 - 04 November 2015, pp.402-410
- XLIII. **Yüzey Dalgası Etüt Sonuçlarının Entegrasyonu ile Gölyaka Düzce Tektonik Baseninin Olasılıksal Sismik Tehlike Değerlendirmesi**
YOUSEFİBAVİL K., EKER A. M., CAMBAZOĞLU S., KOÇKAR M. K., AKGÜN H.
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı (3. TDMSK), İzmir, Turkey, 14 - 16 October 2015, pp.224-231
- XLIII. **Fiber Optik Teknolojisi ile Heyelanların İzlenmesi**
ARSLAN A., AKGÜN H., KOÇKAR M. K., EKER A. M., KELAM M. A.
3. Türkiye Deprem Mühendisliği ve Sismoloji Konferansı (3. TDMSK), İzmir, Turkey, 14 - 16 October 2015, pp.248-257
- XLIV. **Slope Movement Monitoring with Optical Fiber Technology**
ARSLAN A., AKGÜN H., KOÇKAR M. K., ARİF MERT E., KELAM M. A.
EUROCK 2015 & 64th Geomechanics Colloquium, Future Development of Rock Mechanics, Salzburg, Austria, 7 - 10 October 2015, pp.419-426
- XLV. **Geotechnical Characterization of the Antalya Karstic Rock Masses**
SOPACI E., AKGÜN H.
EUROCK 2015 & 64th Geomechanics Colloquium, Future Development of Rock Mechanics, Salzburg, Austria, 7 - 10 October 2015, pp.457-462
- XLVI. **Sıkıştırılmış Bentonit Kum Bariyerlerin Jeoteknik Karakterizasyonu**
AKGÜN H., ADA M., KOÇKAR M. K.
16. Ulusal Kil Sempozyumu, Çanakkale, Turkey, 2 - 05 September 2015, pp.103-105
- XLVII. **Jeotermal Arama Çalışmaları Kapsamında ASTER Uydu Görüntüleri ile Yüzey Sıcaklığı Haritalaması ve Jeotermal Anomalilerinin Araştırılması**
CAMBAZOĞLU S., YAL G. P., EKER A. M., KOÇKAR M. K., ŞEN O., AKGÜN H.
68. Türkiye Jeoloji Kurultayı Bildiri Özleri Kitabı, Ankara, Turkey, 6 - 10 April 2015
- XLVIII. **Heyelan Hareketlerinin İzlenmesinde Fiber Optik Teknolojisinin Kullanımı**
ARSLAN A., KELAM M. A., EKER A. M., AKGÜN H., KOÇKAR M. K.

17. Yuvarlak Masa Toplantısı, Orta Doğu Teknik Üniversitesi, Afet Yönetimi Uygulama ve Araştırma Merkezi, Ankara, Turkey, 12 January 2015

XLIX. Slope movement monitoring with optical fiber technology

Arslan A., AKGÜN H., Koçkar M. K., Eker A. M., Kelam M. A.

ISRM Regional Symposium, EUROCK 2015, Salzburg, Austria, 7 - 10 October 2015, pp.419-424

L. Characterization and Assessment of Large Landslide Movement along the Bursa İnegöl Bozüyük Highway in Turkey

Oral D. G., AKGÜN H., KOÇKAR M. K.

IAEG XII Congress, Engineering Geology for Society and Territory-Volume 2, Landslide Processes, Torino, Italy, 15 - 19 September 2014, pp.1425-1429

L.I. Engineering Geological Characterization of the Antalya Karstic Rocks

EVİRİM S., AKGUN H.

12th International IAEG Congress, Torino, Italy, 15 - 19 September 2014, pp.489-492

L.II. Optical Fiber Technology to Monitor Slope Movement

Arzu A., Abdullah K. M., Mert E. A., Akgun H., Kockar M. K.

12th International IAEG Congress, Torino, Italy, 15 - 19 September 2014, pp.1425-1429

L.III. Characterization and Assessment of Large Landslide Movement Along the Bursa-Inegol-Bozuyuk Highway in Turkey

ORAL D. G., Akgun H., Kockar M. K.

12th International IAEG Congress, Torino, Italy, 15 - 19 September 2014, pp.289-293

L.IV. Thermal Anomaly and Alteration Mineral Mapping in İzmir Dikili Region by using ASTER and Investigation of the Geothermal Potential of the Region

CAMBAZOĞLU S., YAL G. P., EKER A. M., KOÇKAR M. K., OSMAN Ş., AKGÜN H.

3. Geological Remote Sensing Symposium (JEOUZAL-2014), Antalya, Turkey, 13 - 14 March 2014

L.V. A Comprehensive Study to Define Local Site Effects in Northern Ankara Turkey

EKER A. M., AKGÜN H., KOÇKAR M. K.

SE-50EEE International Conference on Earthquake Engineering, Skopje, Macedonia, 29 - 31 May 2013

L.VI. A New Method for Monitoring Landslide and Slope Stability: Optical Fiber Technology

Kelam M. A., Eker A. M., AKGÜN H., ARSLAN A., KOÇKAR M. K.

66th Geological Congress of Turkey, Ankara, Turkey, 1 - 05 April 2013

L.VII. A Comparison of Local Site Conditions with Passive and Active Surface Wave Methods

AKGÜN H., EKER A. M., KOÇKAR M. K.

The Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, California, United States Of America, 24 - 29 May 2010

L.VIII. Portal slope stability assessment of a proposed highway tunnel in northeastern Turkey

Sopaci E., AKGÜN H.

ISRM International Symposium on Rock Mechanics 2009, SINOROCK 2009, Hong Kong, China, 19 - 22 May 2009

L.IX. Undrained stability of residual soil in karst

AKTÜRK Ö., Drumm E. C., Tutluoğlu L., AKGÜN H.

11th Multidisciplinary Conference - Sinkholes and the Engineering and Environmental Impacts of Karst, Tallahassee, FL, United States Of America, 22 - 26 September 2008, pp.223-232

L.X. Evaluation of Site Conditions for the Ankara Basin of Turkey Based on Seismic Site Characterization

KOÇKAR M. K., AKGÜN H., RATHJE E. M.

14th World Conference on Earthquake Engineering, Beijing, China, 12 - 17 October 2008

L.XI. Evaluation of Site Characterizations and Site Effects of the Ankara Basin Turkey

KOÇKAR M. K., AKGÜN H.

4th International Conference on Earthquake Geotechnical Engineering, Selanik, Greece, 25 - 28 June 2007

L.XII. Rock mass characterization and primary support design for the Boztepe Tunnel, Turkey

Sopaci E., AKGÜN H., Akinci M.

2005 ITA-AITES World Tunnel Congress and 31st General Assembly, İstanbul, Turkey, 7 - 12 May 2005, vol.1, pp.141-147

- LXIII. Tunnel and portal stability assessment in weak rock**
KOÇKAR M. K., AKGÜN H.
Underground Space Use: Analysis of the Past and Lessons for the Future - Proceedings of the 31st ITA-AITES World Tunneling Congress, İstanbul, Turkey, 7 - 12 May 2005, pp.149-155
- LXIV. A comparison of leakage rate and leachate removal rate for the design of lined containment systems**
Akgun H.
12th International Conference on Solid Waste Technology and Management, Pennsylvania, United States Of America, 17 - 20 November 1996
- LXV. CEMENTITIOUS SEAL DESIGN IN WELDED TUFF**
AKGUN H., DAEMEN J.
INTERNATIONAL SYMP ON ASSESSMENT AND PREVENTION OF FAILURE PHENOMENA IN ROCK ENGINEERING, İstanbul, Turkey, 5 - 07 April 1993, pp.363-368
- LXVI. Strength of cement grout plugs in salt**
Akgun H., Daemen J.
1991 SME Annual Meeting, Denver, CO, USA, 25 - 28 February 1991

Episodes in the Encyclopedia

- I. **Encyclopedia of Sustainability Science and Technology, Landfill Leachate Control**
Akgün H., Daemen J.
Springer-Verlag , pp.36, 2012
- II. **Encyclopedia of Sustainability Science and Technology, Mining Solid Wastes**
Daemen J., Akgün H.
Springer-Verlag , pp.24, 2012

Supported Projects

- AKGÜN H., KOÇ A., YAL G. P., EKER A. M., KOÇKAR M. K., CAMBAZOĞLU S., Project Supported by Higher Education Institutions, Jeomekanik ve Termal Saha Karakterizasyonu, 2020 - 2024
- Akgün H., Koçkar M. K., Project Supported by Other Official Institutions, Kocaeli İlinde Heyelan Hareketlerinin Erken Uyarı Sistemleri ile İzlenmesi, Depremle Meydana Gelen Sismik Hareketin ve Diğer Faktörlerin (Hidrojeolojik, Hidrolojik, Yağış koşulları) Heyelan Kütle Hareketlerinde Meydana Gelen Deformasyonlar Üzerindeki Etkilerinin ve Hassasiyetlerinin İncelenmesi, 2017 - 2021
- AKGÜN H., KOÇKAR M. K., ARSLAN KELAM A., ÖNER G., Project Supported by Higher Education Institutions, Konya Killerinin Jeoteknik Uygulamalarla Katı Atık İzolasyon Şiltesi olarak Kullanılması için Bentonit ile İyileştirilmesi, 2018 - 2020
- Askan Gündoğan A., Pekcan O., Erberik M. A., Akgün H., Municipality, GAZİANTEP İLİ MERKEZ İLÇELERİNDE SİSMİK TEHLİKE TABANLI YAPISAL RİSKLERİN BELİRLENMESİ İÇİN DEPREM MASTER PLANI HAZIRLIK PROJESİ, 2018 - 2019
- AKGÜN H., Koçkar M. K., ARSLAN KELAM A., Project Supported by Higher Education Institutions, Mudurnu İlçesi Kaya Kütlelerinin Karektarizasyonu, Şev Duraysızlığı Mekanizmalarının Belirlenmesi, Modellenmesi ve Islah Önerileri, 2017 - 2019
- Akgün H., Project Supported by Other Private Institutions, Armutveren, İkizdere ve Türkgözü Moloz Atık Alanlarının Jeolojik, Jeoteknik ve Jeotehlike Açısından İncelenmesi, 2018 - 2018
- Akgün H., Technopark, Sürdürülebilir Yapı ve Kent Tasarımı, 2018 - 2018
- AKGÜN H., Project Supported by Higher Education Institutions, 1999 KOCAELİ VE DÜZCE DEPREMLERİ TEMEL ALINARAK DÜZCE İLİ GÖKYAKA İLÇESİNİN SAHA ETKİLERİNİN DEĞERLENDİRİLMESİ VE SİSMİK MİKROBÖLGELEMESİ, 2017 - 2017
- AKGÜN H., Project Supported by Higher Education Institutions, TARSUS- ÇAMLIYAYLA İL YOLU KM: 11+640-12+080 ARASINDAKİ HEYELANIN DEĞERLENDİRİLMESİ VE ÖNLEME ÇALIŞMASI, 2017 - 2017

AKGÜN H., Project Supported by Higher Education Institutions, ANKARA İLİ POLATLI İLÇESİ KATI ATK SAHASI YER SEÇİMİ VE TASARIMI, 2017 - 2017

AKGÜN H., Project Supported by Higher Education Institutions, MUDURNU KAYA KÜTLELERİNİN KARAKTERİZASYONU, MEKANSAL ANALİZLERLE DEĞERLENDİRİLMELERİ, KAYA DÜŞMESİ/YENİLMESİ YATKINLIK ZONLARININ BELİRLENMESİ VE MODELLENMESİ, 2017 - 2017

AKGÜN H., KOÇKAR M. K., ATAŞ P., ARSLAN KELAM A., Project Supported by Higher Education Institutions, Heyelan Alanlarındaki Şevlerin Deformasyon Karakteristiği Özelliklerinin Doğrulanması ve Değerlendirilmesi, 2016 - 2017

Akgün H., Project Supported by Other Official Institutions, Kocaeli İli Heyelan Hareketlerinin İzlenmesinde Fiber Optik Teknolojisinin Kullanımı (UDAP), 2014 - 2017

AKGÜN H., ÖNER G., YOUSEFİ BAVİL K., Koçkar M. K., GÜNAL TÜRK MENOĞLU A., ARSLAN KELAM A., Project Supported by Higher Education Institutions, Killi Zeminlerin Mineralojik ve Jeoteknik Parametrelerinin Denetleştirilmesi: Çankırı İli Orta İlçesi İçin Örnek Bir Çalışma, 2015 - 2016

AKGÜN H., ARSLAN KELAM A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

AKGÜN H., ARSLAN KELAM A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

AKGÜN H., ARSLAN KELAM A., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

AKGÜN H., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

AKGÜN H., YOUSEFİ BAVİL K., CAMBAZOĞLU S., Koçkar M., Project Supported by Higher Education Institutions, Sismik Ve Jeoteknik Karakterizasyon Çalışmaları İle Zeminlerin Dinamik Karakterlerinin Ve Yer Etkilerinin Sayısal Çözümlemelerle Belirlenmesine Yönelik Çalışmaların Düzce Ve Çevresinde, Kuzey Anadolu Fay Sistemi (kafs) Boyunca Uygulanması, 2012 - 2014

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., 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., 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, Gelişme Raporu, Proje Başdanışmanı, 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., Ilısu ve Karkamış Baraj Gölleri Altında Kalacak Arkeolojik Kültür Varlıklarını Kurtarma Projesi-2002 Yılı Çalışmaları; Hasankef 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 Depremelliğinin 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

KSCJ 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
Journal of Solid Waste Technology and Management, Other Indexed Journal, December 2018
Journal of Solid Waste Technology and Management, Other Indexed Journal, December 2018
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
Journal of Solid Waste Technology and Management, Other Indexed Journal, October 2018
Journal of Solid Waste Technology and Management, Other Indexed Journal, October 2018
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
Journal of Earth & Environmental Sciences, Other Indexed Journal, May 2018
GEOTECHNICAL AND GEOLOGICAL ENGINEERING, SCI Journal, March 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, March 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, March 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, March 2018
Journal of Earth & Environmental Sciences, Other Indexed Journal, March 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
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
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

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: 155

Citation (WoS): 1472

Citation (Scopus): 1735

H-Index (WoS): 23

H-Index (Scopus): 24

Congress and Symposium Activities

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

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

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

ENVIRONTECH CONSULTANTS, INC., BOCA RATON, FLORIDA, USA

Company, Environtech Consultants, Inc., Boca Raton, Florida, USA, Geotechnical/Geo-Environmental Engineering Division