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Education Information

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği, Turkey 1992 - 1994

Undergraduate, Istanbul University, Mühendislik Fakültesi, Jeofizik Mühendisliği, Turkey 1987 - 1991

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Marmara Denizi Kuzey Kıta Sahaneliğinin (Silivri-Kumkapı) Geç Kuvaterner Sismik Stratigrafisi, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji, 2004

Postgraduate, Düşey Elektrik Sondaj Yöntemiyle Silifke Ovacık Ovasında Yeraltı Suyu Araştırılması, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji, 1996

Research Areas

Applied Geophysics, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji, 2018 - Continues

Assistant Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji, 2016 - 2018

Lecturer PhD, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji, 2005 - 2016

Lecturer, Cukurova University, Mühendislik Mimarlık Fakültesi, Jeoloji, 1995 - 2005

Advising Theses

KARAKILÇIK H., Jeotermal Aramalarda Vibrosismik Kaynak Kullanarak Uygun Sweep Parametrelerinin Belirlenmesi, Postgraduate, O.Karaca(Student), 2015

- KARAKILÇIK H., Diyarbakır ili Bismil İlçesinin Güneydoğusunun Petrol Kaynak Potansiyelinin Jeolojik ve Jeofizik Yöntemlerle İncelemesi, Postgraduate, V.Eren(Student), 2013
- KARAKILÇIK H., Manisa'nın Salihli İlçesinin Jeotermal Kaynak Potansiyelinin Jeolojik ve Jeofizik Yöntemlerle İncelenmesi, Postgraduate, U.Eğemen(Student), 2012
- KARAKILÇIK H., Sıraseki (Adana) Sahasında Sismik Yansıma Yöntemi İle Hidrokarbon Araştırılmasında Sismik Veri Toplama ve Parametre Seçimi, Postgraduate, A.Şahin(Student), 2011
- KARAKILÇIK H., Hatay İli Yayladağ İlçesinde Özdirenç Yöntemiyle Yeraltı Suyu Aramaları, Postgraduate, A.Kopaçlı(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Integrating renewable energy technologies in green ships for mobile hydrogen, electricity, and freshwater generation**
ATIZ A., Erden M., KARAKILÇIK H., KARAKILÇIK M.
International Journal of Hydrogen Energy, vol.89, pp.1368-1382, 2024 (SCI-Expanded)
- II. **The integration of parabolic trough solar collectors and evacuated tube collectors to geothermal resource for electricity and hydrogen production**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.57, pp.29027-29037, 2021 (SCI-Expanded)
- III. **Assessment of power and hydrogen production performance of an integrated system based on middle-grade geothermal source and solar energy**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.1, pp.272-288, 2021 (SCI-Expanded)
- IV. **Investigation energy, exergy and electricity production performance of an integrated system based on a low-temperature geothermal resource and solar energy**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
ENERGY CONVERSION AND MANAGEMENT, vol.195, pp.798-809, 2019 (SCI-Expanded)
- V. **Assessment of electricity and hydrogen production performance of evacuated tube solar collectors**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.27, pp.14137-14144, 2019 (SCI-Expanded)
- VI. **Investigation of hydrogen production performance of chlor-alkali cell integrated into a power generation system based on geothermal resources**
KARAKILÇIK H., Erden M., KARAKILÇIK M.
International Journal of Hydrogen Energy, pp.14145-14150, 2019 (SCI-Expanded)
- VII. **"Fakılar Boksit Cevher Özellikleri Ve Potansiyeline Ait ilk Bulgular (Çamlıyayla/Mersin)**
YAPICI N., GÜNEYLİ H., KARAKILÇIK H.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.30, no.2, pp.55-64, 2015 (SCI-Expanded)
- VIII. **Late glacial-Holocene shelf evolution of the Sea of Marmara west of Istanbul**
Karakılçık H., Ünlügenç Ü. C., Okyar M.
JOURNAL OF AFRICAN EARTH SCIENCES, vol.100, pp.365-378, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Afyonkarahisar-Dinar Dombayova Kömür Sahasının Tektono-Stratigrafik İncelemesi, Saha İçindeki Linyit Depolarının Jeolojik Gelişimi ve Rezerv Olanakları**
Pekkıyıcı K., Ünlügenç Ü. C., Karakılçık H.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.4, no.35, pp.897-912, 2020 (Peer-Reviewed Journal)
- II. **Sedimentary Evidences for the Depositional and Environmental Changes Regarding to Regression**

during Mid to Late Miocene in the Neogene Adana Basin (Southern Turkey)

Ünlügenç Ü. C., Akıncı A. C., Karakılçık H.

Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.34, no.4, pp.1-8, 2019 (Peer-Reviewed Journal)

III. İzmit Körfezi'nin Sığ Sismik Verilerle Sismik Stratigrafik İncelenmesi

KARAKILÇIK H.

Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, no.2, pp.365-378, 2016 (Peer-Reviewed Journal)

IV. Ovacık Ovasında Silifke İçel Düşey Elektrik Sondaj Yöntemiyle Tatlı su ve olası tuzlu su girişiminin incelenmesi

KARAKILÇIK H., ÜNLÜGENÇ Ü. C.

DSİ Genel Müdürlüğü, Hidrolojide İzotop Tekniklerinin Kullanılması Sempozyumu, no.1, pp.281-295, 2002 (Peer-Reviewed Journal)

V. Düşey Elektrik Sondaj Yöntemi ile Yeraltı Suyu Araştırması

Karakılçık H., Ünlügenç Ü. C.

Fen ve Mühendislik Bilimleri Dergisi, vol.8, pp.137-150, 1997 (Peer-Reviewed Journal)

Books & Book Chapters

I. Investigation of cushion gas/working gas ratios of underground salt caverns for hydrogen storage

San S., Karakılçık H., Karakılçık M., Erden M., Atız A.

in: Emerging Trends in Energy Storage Systems and Industrial Applications, Prabhansu and Nayan Kumar, Editor, Academic Press, London, pp.67-78, 2022

II. Performance Improving of Low Temperature Geothermal Sources with the Assist of a Solar Pond

KARAKILÇIK H., ATIZ A., Erden M., KARAKILÇIK M.

in: Renewable Energy Based Solutions, Uyar Tanay Sıdkı, Javani Nader, Editor, Springer, Cham, pp.451-463, 2022

III. Investigation of Cushion Gas / Working Gas Ratios of Underground Salt Caverns Hydrogen Gas Storage

San S., KARAKILÇIK M., KARAKILÇIK H., Erden M., ATIZ A.

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IV. Hydrogen production and space heating using water heated by solar radiation

ATIZ A., KARAKILÇIK H., KARAKILÇIK M.

in: Solar Water Heating: Fundamentals and Applications, Khalil Kassmi, Editor, Nova Science Publishers, Inc., Hauppauge NY, pp.177-202, 2021

V. Daily comparison energy and exergy analysis and thermal energy storage performance of solar collectors

ATIZ A., KARAKILÇIK H., SAXENA A., KARAKILÇIK M.

in: Solar Water Heating: Fundamentals and Applications, Khalil Kassmi, Editor, Nova Science Publishers, Inc., Hauppauge NY, pp.59-83, 2021

VI. Underground Large-Scale Hydrogen Storage

KARAKILÇIK H., KARAKILÇIK M.

in: Accelerating the Transition to a 100 Renewable Energy Era, Tanay Sıtkı Uyar, Editor, Springer Nature, Cham, pp.375-392, 2020

VII. Assessment of a Geothermal Based Integrated System For Power and Hydrogen Production

KARAKILÇIK H.

in: 2nd International Hydrogen Technologies Congress (IHTEC2017) Proceedings Book, I. Dincer, A. Midilli, M. Karakılçık, Editor, Hidrojen Teknolojileri Derneği, Adana, pp.230-234, 2017

VIII. Determination of Geothermal Fields at Kızılcahamam (Ankara) Using Vertical Electrical Sounding (VES) and Spontaneous Potential (SP) Methods

KARAKILÇIK H.

in: Progress in Clean Energy Volume II: Novel Systems and Applications, Dincer I.,Ozgun Colpan C.,Kizilkan O., Ezan MA., Editor, Springer, London/Berlin , Switzerland, pp.301-312, 2015

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X. Determination of a Geothermal Energy Field with Audio-Magnetotelluric (AMT) Data at the South of Manisa, Turkey

KARAKILÇIK H.

in: Progress in Exergy, Energy, and the Environment, Dincer I.,Midilli A.,Kucuk H., Editor, Springer, London/Berlin , Switzerland, pp.849-856, 2014

Refereed Congress / Symposium Publications in Proceedings

I. INVESTIGATION OF ELECTRICITY, HYDROGEN AND CLEAN WATER PRODUCTION WITH RENEWABLE ENERGY SYSTEM INTEGRATED ONTO A SHIP: MOBILE ENERGY PRODUCTION ON A SHIP

Erden M., ATIZ A., KARAKILÇIK H., KARAKILÇIK M.

23rd World Hydrogen Energy Conference (WHEC2022), İstanbul, Turkey, 26 - 30 June 2022, vol.1, pp.170-172

II. Investigation Of Electricity, Hydrogen And Clean Water Production With Renewable Energy System Integrated Onto A Ship

Erden M., Atız A., Karakılçık H., Karakılçık M.

23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Turkey, 26 - 30 June 2022, pp.170-172

III. Investigation of hydrogen production performance at different mass flow rates by upgrading the temperatures of geothermal resource fluids at different medium temperatures with PTSCs in an integrated system

Karakılçık H., Atız A., Karakılçık M.

6th International Hydrogen Technologies Congress (IHTEC-2022), İstanbul, Turkey, 23 January - 26 October 2022, pp.183-185

IV. Yeraltı Tuz Mağaralarının Hidrojen Depolama Potansiyelinin İncelenmesi

KARAKILÇIK M., KARAKILÇIK H.

Mathematics - Engineering- Science and Medical Studies, Euro Asia 5th. International Congress on Applied Sciences, Adana, Turkey, 15 - 17 November 2019, pp.487-494

V. Jeofizik Yöntemlerle Doğal Gaz Depolama Rezervuarlarının Belirlenmesi

KARAKILÇIK H., KARAKILÇIK M.

Mathematics - Engineering- Science and Medical Studies, Euro Asia 5th. International Congress on Applied Sciences, Adana, Turkey, 15 - 17 November 2019, pp.420-427

VI. Energy, Exergy And Economic Analyses Of A Heat Pump Integrated With Solar Pond For Domestic Heating

Atız A., Karakılçık H., Karakılçık M.

World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.109-113

VII. Parabolic Trough Solar Collectors With A Low-Temperature Geothermal Source For Electricity And Hydrogen Production

ATIZ A., KARAKILÇIK H., KARAKILÇIK M.

World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.104-108

VIII. Investigation of Hydrogen Storage Potential of Tuz Golu Underground Salt Caverns

San S., Karakılçık H., Karakılçık M.

World Energy Strategies Congress and Exhibition (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.153-156

IX. Investigation of Underground Hydrogen Storage Areas

KARAKILÇIK H.

World Energy Strategies Congress and Exhibition (WESCE2019), İstanbul, Turkey, 26 - 28 August 2019, pp.126-130

- X. **Power generation with integrated parabolic trough solar collectors based on solar energy and a low-grade temperature geothermal source**
ATIZ A., KARAKILÇIK H., KARAKILÇIK M.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Alanya/Antalya, Turkey, 25 - 27 April 2019
- XI. **Yeraltı Doğal Gaz Depolama Alanlarının Stratejik Öneminin İncelenmesi**
KARAKILÇIK H., KARAKILÇIK M.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Alanya/Antalya, Turkey, 25 - 27 April 2019, pp.1016-1022
- XII. **Evaluation of Landslide Potential of Dağdibi-Pozantı (Adana) Area with Seismic Refraction and Active Source Surface Wave Method (MASW)**
KARAKILÇIK H., ÜNLÜGENÇ Ü. C., AKINCI A. C., ATMA Ö.
4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 April 2019, vol.1, pp.897-901
- XIII. **Sedimentary and Stratigraphic Evidence for Changes from Transgressional to Regressional Deposition During Mid to Late Miocene in the Çukurova Region (S. Anatolia)**
Ünlügenç Ü. C., Akıncı A. C., Karakılçık H.
4th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 25 - 27 April 2019, vol.1, pp.634
- XIV. **Neojen Adana Havza'sındaki Erken Miyosen Yaşlı Platform Çökellerinin Sedimanter Özellikleri, Güney Türkiye**
ÜNLÜGENÇ Ü. C., AKINCI A. C., KARAKILÇIK H., ÖÇGÜN A. G.
Uluslararası Katılımlı 72. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 28 January - 01 February 2019, vol.1, pp.581-582
- XV. **Sedimentary Characteristics of Early Miocene Platform Sediments in the Neogene Adana Basin, Southern Turkey**
ÜNLÜGENÇ Ü. C., AKINCI A. C., KARAKILÇIK H., ÖÇGÜN A. G.
72nd Geological Congress of Turkey with international participation, Ankara, Turkey, 28 January - 01 February 2019, vol.1, no.1, pp.581-582
- XVI. **Investigation Of Hydrogen Production Performance Of An Integrated System Based On Low-Temperature Geothermal Resources And Solar Energy**
ATIZ A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
9th International Symposium on Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, pp.99-106
- XVII. **TERTIARY TECTONO-SEDIMENTARY DEVELOPMENT OF THE ÇUKUROVA REGION (S. TURKEY)**
ÜNLÜGENÇ Ü. C., AKINCI A. C., KARAKILÇIK H.
9th International Symposium on Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, vol.1, pp.364-370
- XVIII. **Investigation Of Underground Energy Storage Reservoir**
KARAKILÇIK H., San S., KARAKILÇIK M.
9th International Symposium on Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, pp.107-111
- XIX. **Determination of the Manganese ore deposit (Büyükeynelli-Sorgun/Yozgat) by using multi-electrode resistivity and IP methods**
KARAKILÇIK H., ÜNLÜGENÇ Ü. C., AKINCI A. C., KARAN A., ÇOMULU B. H.
9th International Symposium on Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, vol.1, pp.198-207
- XX. **Detection by resistivity method of marine diffusion in coastal units**
KARAKILÇIK H., Çomulu B. H.
9th International Symposium of the Eastern Mediterranean Geology (ISEMG 2018), Antalya, Turkey, 7 - 11 May 2018, vol.1, no.1, pp.73-79

- XXI. **Determination of the Manganese Ore Deposit (Büyükeynelli-Sorgun/Yozgat) by using Multi-Elektrode Resistivity and IP Methods**
KARAKILÇIK H., ÜNLÜGENÇ Ü. C., AKINCI A. C., KARAN A., ÇOMULU B. H.
9th International Symposium on Eastern Mediterranean Geology, Antalya/Turkey, Antalya, Turkey, 07 May 2018, vol.1, pp.83
- XXII. **Tertiary tectono-sedimentary development of the Cukurova region (S. Turkey)**
ÜNLÜGENÇ Ü. C., AKINCI A. C., KARAKILÇIK H.
9th International Symposium on Eastern Mediterranean Geology (ISEMG2018), Antalya, Turkey, 7 - 11 May 2018, pp.1-9
- XXIII. **Investigation of the performance of underground natural gas storage caverns in Turkey**
KARAKILÇIK M., San S., KARAKILÇIK H.
9th International Symposium of the Eastern Mediterranean Geology (ISEMG 2018), Antalya, Turkey, 7 - 11 May 2018, pp.64-72
- XXIV. **Investigation of Hydrogen Production Performance of an Integrated System Based On a Low Temperature Geothermal Resource and Solar Energy**
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KARAKILÇIK H., San S., KARAKILÇIK M.
9th International Symposium on Eastern Mediterranean Geology (ISEMG2018), Antalya, Turkey, 7 - 11 May 2018, pp.110-114
- XXVI. **The Effect on electricity and hydrogen production performance of the evacuated tube solar collectors with preheated inlet water by a solar pond**
Atiz A., KARAKILÇIK H., Erden M., KARAKILÇIK M.
14th International Conference on Energy Storage (EnerSTOCK2018), Adana, Turkey, 25 - 28 April 2018, pp.1200-1213
- XXVII. **Investigation of Underground Large Scale Hydrogen Storage: Salt Dome**
KARAKILÇIK H., KARAKILÇIK M.
4th International Conference on Energy Storage (EnerSTOCK2018), Adana, Turkey, 25 - 28 April 2018, pp.1480-1494
- XXVIII. **Investigation of hydrogen production performance of chlorine alkaline reactor integrated into a power generation system based on geothermal resources**
KARAKILÇIK H., Erden M., Atiz A., KARAKILÇIK M.
The 14th International Conference on Energy Storage (EnerSTOCK2018), Adana, Turkey, 25 - 28 April 2018, pp.1191-1199
- XXIX. **Neojen Adana Havzası'nın Tektono-Sedimanter Evrimi**
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- XXX. **Investigation of Hydrogen Storage Areas**
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- XXXI. **Determination of the manganese ore deposit Buyukeynelli-Sorgun/Yozgat) by using multi-electrode resistivity and IP methods**
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- XXXIII. **Seismic Microzonation and Earthquake Risk Analysis Studies of Dumanlı-Düziçi Region**
Çomulu B. H., KARAKILÇIK H.
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- XXXIV. **Determination of foundation depth in carrier systems of large structures**
KARAKILÇIK H., Çomulu B. H.
Uluslararası Katılımlı 40. Yıl Jeoloji Sempozyumu, Adana, Turkey, 3 - 06 May 2017, pp.184
- XXXV. **Investigation of the Underground Hydrogen Storage Structures**
KARAKILÇIK H.
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- XXXVI. **Assessment of a Geothermal Based Integrated System For Power and Hydrogen Production**
KARAKILÇIK H., Erden M., KARAKILÇIK M.
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- XXXVII. **Investigation of Magnetic Field Effect on Hydrogen Production Performance In Aqueous Methanol Electrolysis**
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- XXXVIII. **Exploring for geothermal resources with electromagnetic methods**
KARAKILÇIK H.
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- XXXIX. **Türkiye'nin son 20 yıldaki jeotermal potansiyelinin değerlendirilmesi**
KARAKILÇIK H.
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- XL. **ÇOK ELEKTROTLU REZİSTİVİTE YÖNTEMİ İLE SEVDİĞİN KIRŞEHİR VE ÇEVRESİNDEKİ JEOTERMAL SAHALARIN BELİRLENMESİ**
KARAKILÇIK H.
10th International Clean Energy Symposium, İstanbul, Turkey, 24 - 26 October 2016
- XLI. **Çok Elektrotlu Rezistivite ve IP Metodu İle BoksitCevherleşmelerinin Çamlıyayla Mersin Belirlenmesi**
KARAKILÇIK H., YAPICI N.
67.Türkiye Jeoloji. Kurultayı, Turkey, 6 - 08 April 2014
- XLII. **Kuvaterner Döneminde Deniz Seviyesi Değişimlerinin Nedenleri:Ahırkapı-Büyükçekmece Arasından (Marmara Denizi) Bir Örnek**
KARAKILÇIK H., Okyar M., ÜNLÜGENÇ Ü. C.
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- XLIII. **Determination Of a Geothermal Energy Field With Audio-Magnetotelluric (AMT) Data At The South of Manisa**
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- XLIV. **Groundwater and salinity exploration by using vertical electrical sounding methods. A case study, Hatay area,**
KARAKILÇIK H.
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- XLV. **Seismic stratigraphical investigation of İzmit bay with shallow seismic sections**
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- XLVI. **Late Quaternary Seismic Sequence Stratigraphy of Northern Continental shelf area of Marmara Sea**

Between Kumkapı and Büyükçekmece

KARAKILÇIK H., ÜNLÜGENÇ Ü. C., Okyar M.

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XLVII. Depremlerin Maden İşletmelerine Olan Etkisi

KARAKILÇIK H.

Maden İşletmelerinde İş Sağlığı ve Güvenliği Sempozyumu, Adana, Turkey, 19 - 29 November 2009, pp.1-9

XLVIII. Düşey Elektrik Sondaj (DES) Yöntemi ile Salihli (Manisa) Jeotermal Alanının Araştırılması

Egemen U., KARAKILÇIK H.

İstanbul Üniversitesi Türkiye'nin Jeotermal Potansiyeli ve Arama Yöntemleri Sempozyumu, İstanbul, Turkey, 22 - 23 October 2009, pp.47-48

XLIX. Exploration of the Harlek (Kütahya) geothermal field by using vertical electrical sounding (VES)

KARAKILÇIK H., ÜNLÜGENÇ Ü. C., Kopaçlı A., Haşimoğlu A.

Çukurova Üniversitesi Jeoloji Mühendisliği Bölümü 30.Yıl Jeoloji Sempozyumu, Adana, Turkey, 25 - 27 October 2007, pp.248

L. Ovacık Ovasında (Silifke-İçel) D.E.S Yöntemiyle Tatlı Su ve Olası Tuzlu Su Girişiminin İncelenmesi

KARAKILÇIK H., ÜNLÜGENÇ Ü. C.

T.C. Enerji ve Tabii Kaynaklar Bakanlığı Devlet Su İşleri Genel Müdürlüğü, Hidrolojide İzotop Tekniklerinin Kullanılması Sempozyumu, Adana, Turkey, 21 - 25 October 2005, pp.281-296

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Non Academic Experience

Ceyhan Lisesi

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