

## Prof. Ekrem KALKAN

### Personal Information

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### Education Information

Doctorate, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, Turkey 1997 - 2003

Postgraduate, Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, Turkey 1993 - 1997

Undergraduate, Selçuk Üniversitesi, Mühendislik-Mimarlık Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1985 - 1990

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Oltu (Erzurum) killerinin bariyer olarak kullanımında geoteknik özelliklerinin iyileştirilmesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği Anabilim Dalı, 2003

Postgraduate, Sivas Tersiyer Havzasının Kuzey Kenarının Çırcır Hamzaşeyh Köyleri (Sivas KB) arasındaki kesiminin jeolojik özellikleri, Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği Anabilim Dalı, 1997

### Research Areas

Environmental Engineering, Environmental Sciences, Environmental Chemistry, Geological Engineering, Applied Geology, Environmental Geology and Geophysics, Engineering Geology foundations, earthquakes, dams, reservoirs, Civil Engineering, Geotechnical, Soil Mechanics, Ground Improvement, Engineering and Technology

### Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2020 - Continues

Professor, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği Bölümü, 2014 - 2020

Associate Professor, Atatürk Üniversitesi, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği Bölümü, 2009 - 2014

Assistant Professor, Atatürk Üniversitesi, Oltu Meslek Yüksekokulu, İnşaat, 2004 - 2009

Expert, Atatürk Üniversitesi, Deprem Araştırma Merkezi, Deprem Araştırma Merkezi, 1990 - 2004

### Academic and Administrative Experience

AÖF Oltu Sınav Koordinatörü, Ataturk University, Açıköğretim Fakültesi, 2016 - 2021

Staj Başkanı, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - 2020

Head of Department, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2017 - 2020  
Head of Department, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2017 - 2020  
Fakülte Yönetim Kurulu Üyesi, Ataturk University, Oltu Beşeri ve Sosyal Bilimler Fakültesi, 2016 - 2020  
University Executive Board Member, Ataturk University, 2016 - 2020  
Dean, Ataturk University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2016 - 2020  
ÖSYM Oltu Sınav Koordinatörü, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2016 - 2020  
Fakülte Kurulu Üyesi, Ataturk University, Oltu Beşeri ve Sosyal Bilimler Fakültesi, 2016 - 2020  
Head of Department, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2011 - 2020  
Head of Department, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2009 - 2020  
Fakülte Yönetim Kurulu Üyesi, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2009 - 2020  
Fakülte Kurulu Üyesi, Ataturk University, Oltu Yer Bilimleri Fakültesi, Jeoloji Mühendisliği, 2009 - 2020  
Atatürk Üniversitesi, Oltu Yer Bilimleri Fakültesi, 2009 - 2016  
Atatürk Üniversitesi, Oltu Meslek Yüksekokulu, 2005 - 2012

## Courses

Bitirme Projesi II, Undergraduate, 2020 - 2021  
İleri Mühendislik Jeolojisi, Postgraduate, 2019 - 2020, 2020 - 2021  
Danışmalık, Postgraduate, 2019 - 2020, 2020 - 2021  
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020, 2020 - 2021  
Jeolojide Zemin ve Zemin Davranışları, Postgraduate, 2020 - 2021  
Bitirme Projesi I, Undergraduate, 2020 - 2021  
Jeolojiye Giriş I, Undergraduate, 2020 - 2021  
Jeolojide Zemin ve Zemin Davranışları, Postgraduate, 2017 - 2018  
İleri Çevre Jeolojisi, Postgraduate, 2017 - 2018  
Doğal Afetler ve Yerbilimleri, Doctorate, 2016 - 2017  
İleri Zemin Mekaniği, Postgraduate, 2016 - 2017  
Zeminlerin Mühendislik Özellikleri, Postgraduate, 2015 - 2016  
Nanojeoloji, Doctorate, 2015 - 2016  
Kil Mineralojisi ve Kil Minerallerinin Endüstride Kullanımı, Postgraduate, 2015 - 2016  
Deneysel Mühendislik Jeolojisi, Doctorate, 2015 - 2016  
Tıbbi Jeoloji, Doctorate, 2015 - 2016  
Jeolojik Tasarım, Undergraduate, 2013 - 2014  
Bilgisayar Destekli Jeolojik Tasarım, Undergraduate, 2013 - 2014  
Jeolojide Malzeme Bilimi, Undergraduate, 2013 - 2014  
Jeolojik Harita Yorumlama, Undergraduate, 2012 - 2013  
Mühendislik Çizimi, Undergraduate, 2012 - 2013  
Endüstriyel Mineraller ve Kayalar, Undergraduate, 2012 - 2013  
Kürenin İç Yapısı ve Levha Tektoniği, Undergraduate, 2011 - 2012  
Saha Jeolojisi, Undergraduate, 2011 - 2012  
Yapısal Jeoloji ve Tektonik, Undergraduate, 2010 - 2011  
Yapı Statiği, Associate Degree, 2008 - 2009  
Karayolu İnşaatı, Associate Degree, 2008 - 2009  
Hidrolik ve Hidroloji, Associate Degree, 2007 - 2008  
Büro ve Şantiye Organizasyonu, Associate Degree, 2007 - 2008  
Betonarme, Associate Degree, 2007 - 2008  
Malzeme Bilmi ve Yapı Malzemesi, Associate Degree, 2007 - 2008  
Beton Teknolojisi, Associate Degree, 2007 - 2008  
Yapı Teknolojisi, Associate Degree, 2007 - 2008  
Yapı Mimarisi ve Detay Çizimleri, Associate Degree, 2006 - 2007

## Advising Theses

- KALKAN E., Yüksek Sıcaklık Etkisi Altında İyidere Tüfünün Fiziksel ve Mekanik Özelliklerinde Meydana Gelen Değişimlerin Araştırılması, Postgraduate, H.GÜN(Student), Continues
- Kalkan E., Obsidiyen Malzemesinin Killi Zeminlerin Geoteknik Özelliklerinin İyileştirilmesinde Kullanılabilirliğinin Araştırılması, Postgraduate, H.OSMAN(Student), 2021
- Kalkan E., İvme ölçer lokasyonlarına ait zemin dinamik özelliklerinin deprem kayıtları kullanılarak incelenmesi Elazığ (Türkiye) örneği, Postgraduate, A.MARAL(Student), 2020
- Kalkan E., Şanlıurfa ilinin jeolojik ve morfolojik özelliklerinin coğrafi bilgi sistemleri (CBS) yardımıyla incelenmesi, Postgraduate, A.EKMEN(Student), 2019
- Kalkan E., Yeraltı suyu çekilmesine bağlı arazi sübidansı değişiminin matlab kullanılarak araştırılması: Konya Ovası (Konya Kapalı Havzası) için modelleme ve tahmine dayalı bir vaka çalışması, Postgraduate, A.WEDAM(Student), 2019
- Kalkan E., Nubya Çölü orta kesiminin (Kuzey Sudan) jeolojik özellikleri ve altın cevherleşmesi oluşma potansiyelinin araştırılması, Postgraduate, F.ABDALLAH(Student), 2019
- KALKAN E., Karabük Bölgesinin FR ve AHP Yöntemleri kullanılarak CBS tabanlı heyelan duyarlılık haritalarının üretilmesi. Atatürk Üniversitesi, Postgraduate, V.Emre(Student), 2018
- Kalkan E., Köprüköy (Erzurum) termal çamur ve suyunun jeokimyasal özellikleri ve termal çamurda oluşan yosunun giderilmesinin araştırılması, Postgraduate, S.KILIÇ(Student), 2018
- Kalkan E., Karabük bölgesinin FR ve AHP yöntemleri kullanılarak CBS tabanlı heyelan duyarlılık haritalarının üretilmesi, Postgraduate, V.EMRE(Student), 2018
- KALKAN E., Pertek Jeotermal Alanının hidrojeokimyasal özelliklerinin incelenmesi, Postgraduate, A.AKKUŞ(Student), 2016

## Jury Memberships

- Associate Professor Exam, Associate Professor Exam, Boğaziçi Üniversitesi, August, 2021
- Post Graduate, Post Graduate, Ağrı İbrahim Çeçen Üniversitesi, July, 2021
- Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, October, 2020
- Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, October, 2020
- Post Graduate, Post Graduate, Atatürk Üniversitesi, September, 2020
- PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2020
- Doctorate, Doktora Tez Savunması, Karadeniz Teknik Üniversitesi, July, 2018
- Post Graduate, Post Graduate, Atatürk Üniversitesi, March, 2018
- Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, February, 2018
- Post Graduate, Yüksek Lisans Tez Savunması, Ağrı İbrahim Çeçen Üniversitesi, February, 2018
- Post Graduate, Tez Savunma Jürisi, Ağrı İbrahim Çeçen Üniversitesi, February, 2018
- Post Graduate, Yüksek Lisans Tez Savunması, Yüzüncü Yıl Üniversitesi, July, 2015

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Adsorptive Removal of Acid Fuchsin Dye Using By-Product Silica Fume and Laccase-Modified Silica Fume**  
Kalkan E., Nadaroğlu H.  
Iranian Journal Of Chemistry & Chemical Engineering-International English Edition, vol.40, no.2, pp.551-564, 2021  
(Journal Indexed in SCI Expanded)
- II. **The destruction of Erzurum ski-jumping complex by a landslide: evaluation of an engineering design failure**  
ÇELİK S., Ozyazicioglu M. H. , ŞAHİN R., UYSAL H., ÇAKICI F. Z. , KALKAN E.  
NATURAL HAZARDS, 2021 (Journal Indexed in SCI)

- III. **Removal of copper from copper-contaminated river water and aqueous solutions using *Methylobacterium extorquens* modified Erzurum clayey soil**  
ÇELEBİ N., NADAROĞLU H., KALKAN E., KOTAN R.  
ARCHIVES OF ENVIRONMENTAL PROTECTION, vol.42, no.4, pp.58-69, 2016 (Journal Indexed in SCI)
- IV. **Fenton process-driven decolorization of Allura Red AC in wastewater using apolaccase-modified or native nanomagnetite immobilized on silica fume**  
ALAYLI GÜNGÖR A., NADAROĞLU H., KALKAN E., ÇELEBİ N.  
Desalination and Water Treatment, vol.57, no.34, pp.15889-15899, 2016 (Journal Indexed in SCI)
- V. **Changes in the chemical composition of an acidic soil treated with marble quarry and marble cutting wastes**  
Tozsın G., ÖZTAŞ T., AROL A. İ. , KALKAN E.  
CHEMOSPHERE, vol.138, pp.664-667, 2015 (Journal Indexed in SCI)
- VI. **Equilibrium studies of copper ion adsorption onto modified kernel of date (*Fructus dactylus*)**  
Nadaroğlu H., KALKAN E., Celik H.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.12, no.6, pp.2079-2090, 2015 (Journal Indexed in SCI)
- VII. **Experimental Study to Remediate Acid Fuchsin Dye Using Laccase-Modified Zeolite from Aqueous Solutions**  
KALKAN E., NADAROĞLU H., ÇELEBİ N., Celik H., Tasgin E.  
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.24, no.1, pp.115-124, 2015 (Journal Indexed in SCI)
- VIII. **Equilibrium Studies Of Copper Ion Adsorption onto Modified And Powdered Kernel of Date *Fructus dactylus***  
NADAROĞLU H., KALKAN E., ÇELİK H.  
International Journal Of Environmental Science And Technology, vol.12, pp.2079-2090, 2015 (Journal Indexed in SCI Expanded)
- IX. **The effects of marble wastes on soil properties and hazelnut yield**  
Tozsın G., ÖZTAŞ T., AROL A. İ. , KALKAN E., DUYAR O.  
JOURNAL OF CLEANER PRODUCTION, vol.81, pp.146-149, 2014 (Journal Indexed in SCI)
- X. **Removal of textile dye Reactive Black 5 from aqueous solution by adsorption on laccase-modified silica fume**  
KALKAN E., NADAROĞLU H., ÇELEBİ N., Tozsın G.  
DESALINATION AND WATER TREATMENT, vol.52, pp.6122-6134, 2014 (Journal Indexed in SCI)
- XI. **Use of Silica Fume as Low-Cost Absorbent Material for Nickel Removal from Aqueous Solutions**  
KALKAN E., NADAROĞLU H., ÇELEBİ N.  
ASIAN JOURNAL OF CHEMISTRY, vol.26, no.18, pp.6121-6126, 2014 (Journal Indexed in SCI)
- XII. **Use of Silica Fume as Low-Cost Absorbent Material for Nickel Removal from Aqueous Solutions**  
KALKAN E., Nadaroğlu H., Çelebi N.  
ASIAN JOURNAL OF CHEMISTRY, vol.26, no.18, pp.6121-6126, 2014 (Journal Indexed in SCI Expanded)
- XIII. **Removal of copper from aqueous solution using activated silica fume with/without apocarbonic anhydrase**  
NADAROĞLU H., KALKAN E.  
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol.21, no.4, pp.249-256, 2014 (Journal Indexed in SCI)
- XIV. **Equilibrium, kinetic and thermodynamic studies on adsorption of Reactive Black 5 dye by laccase modified-red mud from aqueous solutions**  
Nadaroğlu H., KALKAN E., Çelebi N.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, no.1, pp.70-83, 2014 (Journal Indexed in SCI Expanded)
- XV. **REMOVAL OF COPPER FROM AQUEOUS SOLUTIONS BY USING MICRITIC LIMESTONE**  
NADAROĞLU H., KALKAN E., ÇELEBİ N.  
CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, vol.9, no.1, pp.69-80, 2014 (Journal Indexed in SCI)
- XVI. **Removal of copper from aqueous solutions by using Berriasiyen Aptian aged micritic limestone**

- NADAROĞLU H., KALKAN E., ÇELEBİ N.  
Carpathian Journal Of Earth And Environmental Sciences, vol.9, pp.69-80, 2014 (Journal Indexed in SCI Expanded)
- XVII. **Use of Silica Fume as Low cost Absorbent Material for Nickel Removal from Aqueous Solutions 26 18 6121 6126 2014**  
KALKAN E., NADAROĞLU H., ÇELEBİ N.  
Asian Journal Of Chemistry, vol.26, pp.6121-6126, 2014 (Journal Indexed in SCI Expanded)
- XVIII. **EQUILIBRIUM, KINETIC AND THERMODYNAMIC STUDIES ON ADSORPTION OF REACTIVE BLACK 5 DYE BY LACCASE MODIFIED-RED MUD FROM AQUEOUS SOLUTIONS**  
Nadaroğlu H., KALKAN E., Çelebi N.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, no.1, pp.70-83, 2014 (Journal Indexed in SCI)
- XIX. **Removal of Copper From Aqueous Solutions by Using Micritic Limestone**  
Nadaroğlu H., KALKAN E., Çelebi N.  
CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, vol.9, no.1, pp.69-80, 2013 (Journal Indexed in SCI Expanded)
- XX. **Preparation of scrap tire rubber fiber-silica fume mixtures for modification of clayey soils**  
Kalkan E.  
APPLIED CLAY SCIENCE, pp.117-125, 2013 (Journal Indexed in SCI)
- XXI. **Use of marble dust waste material for stabilization of compacted clayey soils**  
KALKAN E., Yarbaşı N.  
JOKULL, vol.63, no.5, pp.322-344, 2013 (Journal Indexed in SCI Expanded)
- XXII. **Use of marble dust waste material for stabilization of compacted clayey soils**  
KALKAN E., Yarbaşı N.  
JOKULL, vol.63, no.5, pp.322-344, 2013 (Journal Indexed in SCI Expanded)
- XXIII. **The Evaluation of Affection of Methylobacterium extorquens - Modified Silica Fume for Adsorption Cadmium (II) Ions From Aqueous Solutions Affection**  
NADAROĞLU H., ÇELEBİ N., KALKAN E., DİKBAŞ N.  
KAFKAS UNIVERSİTESİ VETERİNER FAKULTESİ DERGİSİ, vol.19, no.3, pp.391-397, 2013 (Journal Indexed in SCI)
- XXIV. **Bacteria-Modified Red Mud for Adsorption of Cadmium Ions from Aqueous Solutions**  
KALKAN E., NADAROĞLU H., DİKBAŞ N., Tasgin E., ÇELEBİ N.  
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.22, no.2, pp.417-429, 2013 (Journal Indexed in SCI)
- XXV. **Water Purification of textile dye Acid red 37 by adsorption on laccase modified silica fume**  
NADAROĞLU H., ÇELEBİ N., KALKAN E., TOZSİN G.  
Jokull, vol.63, pp.87-113, 2013 (Journal Indexed in SCI Expanded)
- XXVI. **Methylobacterium extorquens Modified Silica Fume for Adsorption of Cadmium Ions From Aqueous Solutions**  
NADAROĞLU H., ÇELEBİ N., KALKAN E., DİKBAŞ N.  
Kafkas Üniversitesi Veteriner Fakültesi Dergisi, vol.19, pp.391-397, 2013 (Journal Indexed in SCI)
- XXVII. **Experimental study on the nickel (II) removal from aqueous solutions using silica fume with/without apocarbonic anhydrase**  
KALKAN E., NADAROĞLU H., DEMİR N.  
DESALINATION AND WATER TREATMENT, vol.44, pp.180-189, 2012 (Journal Indexed in SCI)
- XXVIII. **Removal of As (III) From Wastewater Using Erzurum Clay Soil**  
Çelebi N., Nadaroğlu H., KALKAN E.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, pp.1982-1991, 2012 (Journal Indexed in SCI Expanded)
- XXIX. **Evaluation of Turkish black amber: a case study of the Oltu (Erzurum), NE Turkey**  
KALKAN E., Bilici Ö., Kolaylı H.  
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, vol.7, no.15, pp.2387-2397, 2012 (Journal Indexed in SCI Expanded)
- XXX. **Evaluation of Turkish black amber: a case study of the Oltu (Erzurum), NE Turkey**  
KALKAN E., Bilici Ö., Kolaylı H.  
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, vol.7, no.15, pp.2387-2397, 2012 (Journal Indexed in SCI)

Expanded)

- XXXI. **Evaluation of Turkish black amber A case study of Oltu Erzurum NE Turkey**  
KALKAN E., BİLİCİ Ö., KOLAYLI H.  
International Journal Of Physical Sciences, vol.7, pp.2387-2397, 2012 (Journal Indexed in SCI)
- XXXII. **Effects of waste material-lime additive mixtures on mechanical properties of granular soils**  
Kalkan E.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.71, no.1, pp.99-103, 2012 (Journal Indexed in SCI)
- XXXIII. **Removal of cobalt II ions from aqueous solution by using alternative adsorbent industrial red mud waste material**  
NADAROĞLU H., KALKAN E.  
International Journal Of Physical Sciences, vol.7, pp.1386-1394, 2012 (Journal Indexed in SCI Expanded)
- XXXIV. **REMOVAL OF As (III) FROM WASTEWATER USING ERZURUM CLAY SOIL**  
ÇELEBİ N., NADAROĞLU H., KALKAN E.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, pp.1982-1991, 2012 (Journal Indexed in SCI)
- XXXV. **Impact of wetting-drying cycles on swelling behavior of clayey soils modified by silica fume**  
Kalkan E.  
APPLIED CLAY SCIENCE, vol.52, no.4, pp.345-352, 2011 (Journal Indexed in SCI)
- XXXVI. **Removal of copper from aqueous solution using red mud**  
NADAROĞLU H., KALKAN E., Demir N.  
DESALINATION, vol.251, pp.90-95, 2010 (Journal Indexed in SCI)
- XXXVII. **Removal of copper from aqueous solution using red mud 2010**  
NADAROĞLU H., KALKAN E., DEMİR N.  
Desalination, vol.251, pp.90-95, 2010 (Journal Indexed in SCI Expanded)
- XXXVIII. **Prediction of the unconfined compressive strength of compacted granular soils by using inference systems**  
KALKAN E., Akbulut S., TORTUM A., Celik S.  
ENVIRONMENTAL GEOLOGY, vol.58, no.7, pp.1429-1440, 2009 (Journal Indexed in SCI)
- XXXIX. **Effects of silica fume on the geotechnical properties of fine-grained soils exposed to freeze and thaw**  
Kalkan E.  
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.58, no.3, pp.130-135, 2009 (Journal Indexed in SCI)
- XL. **Geotechnical mapping for alluvial fan deposits controlled by active faults: a case study in the Erzurum, NE Turkey**  
Yarbaşı N., KALKAN E.  
ENVIRONMENTAL GEOLOGY, vol.58, no.4, pp.701-714, 2009 (Journal Indexed in SCI)
- XLI. **Influence of silica fume on the desiccation cracks of compacted clayey soils**  
Kalkan E.  
APPLIED CLAY SCIENCE, vol.43, pp.296-302, 2009 (Journal Indexed in SCI)
- XLII. **Geotechnical evaluation of Turkish clay deposits: a case study in Northern Turkey**  
KALKAN E., Bayraktutan M. S.  
ENVIRONMENTAL GEOLOGY, vol.55, no.5, pp.937-950, 2008 (Journal Indexed in SCI)
- XLIII. **Modification of clayey soils using scrap tire rubber and synthetic fibers**  
Akbulut S., Arasan S., KALKAN E.  
APPLIED CLAY SCIENCE, vol.38, pp.23-32, 2007 (Journal Indexed in SCI)
- XLIV. **Modification of the geotechnical properties, as influenced by freeze-thaw, of granular soils with waste additives**  
Yarbasi N., Kalkan E., Akbulut S.  
COLD REGIONS SCIENCE AND TECHNOLOGY, vol.48, no.1, pp.44-54, 2007 (Journal Indexed in SCI)
- XLV. **Utilization of red mud as a stabilization material for the preparation of clay liners**  
Kalkan E.  
ENGINEERING GEOLOGY, vol.87, pp.220-229, 2006 (Journal Indexed in SCI)

- XLVI. **The positive effects of silica fume on the permeability, swelling pressure and compressive strength of natural clay liners**  
Kalkan E., Akbulut S.  
ENGINEERING GEOLOGY, vol.73, pp.145-156, 2004 (Journal Indexed in SCI)
- XLVII. **Improving of shear strength of natural clay liners (NCLs)**  
KALKAN E., Akbulut S.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.11, no.2, pp.67-74, 2003 (Journal Indexed in SCI Expanded)
- XLVIII. **Improving of shear strength of natural clay liners (NCLs)**  
KALKAN E., Akbulut S.  
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.11, no.2, pp.67-74, 2003 (Journal Indexed in SCI Expanded)
- XLIX. **Regional gas geochemistry in an active tectonic zone, Erzurum Basin, eastern Turkey**  
Bayraktutan M. S., Merefield J., Grainger P., Evans B., Yilmaz M., KALKAN E.  
Quarterly Journal of Engineering Geology, vol.29, no.3, pp.209-218, 1996 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **The Mechanical Properties of Granular Soils Injected by Silica Fume-Lime Mixtures**  
KALKAN E., HARPUTLUGİL H. F.  
International Journal of Science and Engineering Applications, vol.10, no.1, pp.7-10, 2021 (Refereed Journals of Other Institutions)
- II. **Stabilization of Clayey Soils by Using the Organic Waste-Material**  
Yarbaşı N., Kalkan E.  
International Journal of Science and Engineering Applications, vol.9, no.11, pp.129-132, 2020 (Refereed Journals of Other Institutions)
- III. **Freeze-Thaw Resistance of Fine-Grained Soils Stabilized with Waste Material Mixtures**  
YARBAŞI N., KALKAN E.  
International Journal of Science and Engineering Applications, vol.9, no.12, pp.158-163, 2020 (Refereed Journals of Other Institutions)
- IV. **Investigation of Wet-Dry Cycle Effect on Swelling Behavior of Stabilized Expansive Soils**  
YARBAŞI N., KALKAN E.  
International journal of science and Engineering Applications, vol.9, no.12, pp.153-157, 2020 (Refereed Journals of Other Institutions)
- V. **The effect of pine tree sawdust on the freeze-thaw resistance of expansive soils**  
YARBAŞI N., KALKAN E.  
International Journal of Latest Technology in Engineering, Management & Applied Science, vol.9, no.11, pp.29-33, 2020 (Refereed Journals of Other Institutions)
- VI. **The Swelling Properties of Modified Expansive Soil with Pine Tree Sawdust**  
YARBAŞI N., KALKAN E.  
International Journal of Latest Technology in Engineering, Management Applied Science, vol.9, no.11, pp.24-28, 2020 (Refereed Journals of Other Institutions)
- VII. **The effect of waste material mixtures on the mechanical properties of clayey soils**  
KALKAN E., YARBAŞI N.  
International Journal of Latest Technology in Engineering, Management Applied Science, vol.9, no.10, pp.48-52, 2020 (Refereed Journals of Other Institutions)
- VIII. **The Effects of Quartzite on the Swelling Behaviors of Compacted Clayey Soils**  
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