

## Prof. AYSEL ŞEREN

### Personal Information

Office Phone: [+90 462 377 2728](tel:+904623772728)

Office Phone: [+90 462 377 2706](tel:+904623772706)

Fax Phone: [+90 462 325 7405](tel:+904623257405)

Email: [seren@ktu.edu.tr](mailto:seren@ktu.edu.tr)

Web: <https://avesis.ktu.edu.tr//seren>

Address: KTÜ Müh. Fak. Jeofizik Müh. Böl. 61080 Trabzon

### International Researcher IDs

ORCID: 0000-0003-1134-061X

Yoksis Researcher ID: 152035

### Education Information

Doctorate, Istanbul University, Institute Of Graduate Studies In Sciences, Jeofizik Mühendisliği Bölümü/Uygulamalı Jeofizik Abd, Turkey 1994 - 1998

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Jeofizik Mühendisliği Abd, Turkey 1990 - 1993

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Jeofizik Mühendisliği Bölümü, Turkey 1985 - 1989

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Tuz Gölü bölgesi yeraltı yoğunluk dağılımının ters çözümleme tekniği ile belirlenmesi, Istanbul University, Institute Of Graduate Studies In Sciences, Mühendislik Fakültesi Bölümü, 1998

Postgraduate, Bouguer anomali haritasına uygulanan işlemler ve en küçük kareler yöntemi ile yüzey uydurulması, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 1992

### Research Areas

Geophysical Engineering, Applied Geophysics, Archeo-geophysical, Gravity, Engineering and Technology

### Published journal articles indexed by SCI, SSCI, and AHCI

- Ground penetrating radar for the evaluation of rockfall potentials in the vertical rock slope of Sumela Monastery (NE Türkiye)**  
Gelişli K., Şeren A., Ersoy H., Babacan A. E., Aydın Z. O., Sünnetci M. O., Karahan M.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.83, no.11, 2024 (SCI-Expanded)
- Determination of the engineering characteristics of calciclastic submarine fan systems in the Tonya**

- Formation (Hacimehmet, Trabzon, NE Türkiye) using integrated geophysical and geological methods**  
ÖĞRETMEN AYDIN Z., Koroğlu F., ŞEREN A.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.83, no.9, 2024 (SCI-Expanded)
- III. **Deciphering of karst geomorphology and sinkhole (doline) structures using multiple geophysical and geological methods (Trabzon, NE Türkiye)**  
Alemdağ H., Koroglu F., Öğretmen Aydın Z., Şeren A., Babacan A. E., Fırat Ersoy A.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.83, no.7, 2024 (SCI-Expanded)
- IV. **Combining ground-penetrating radar sections with different antenna frequencies including time-frequency domain noise suppression filters**  
ALEMDAĞ H., ŞEREN A., KARSLI H.  
GEOPHYSICS, vol.87, no.4, 2022 (SCI-Expanded)
- V. **Determination of rock quality designation (RQD) in metamorphic rocks: a case study (Bayburt-Kirklartepe Dam)**  
Alemdag S., Sari M., ŞEREN A.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.81, no.5, 2022 (SCI-Expanded)
- VI. **Determination of geological structures by geophysical and geotechnical techniques in Kirklartepe Dam Site (Turkey)**  
Sari M., ŞEREN A., Alemdag S.  
JOURNAL OF APPLIED GEOPHYSICS, vol.182, 2020 (SCI-Expanded)
- VII. **Investigation of geological, geotechnical and geophysical properties of Kiratli (Bayburt, NE Turkey) travertine**  
YALÇINALP B., AYDIN Z. O., ERSOY H., ŞEREN A.  
CARBONATES AND EVAPORITES, vol.33, no.3, pp.421-429, 2018 (SCI-Expanded)
- VIII. **Investigating fracture-cracked systems with geophysical methods in Bayburt Kiratli travertine**  
Oğretmen Z., ŞEREN A.  
JOURNAL OF GEOPHYSICS AND ENGINEERING, vol.11, no.6, 2014 (SCI-Expanded)
- IX. **Geomagnetic and geoelectrical prospecting for buried archaeological remains on the Upper City of Amorium, a Byzantine city in midwestern Turkey**  
Ekinci Y. L., BALKAYA Ç., ŞEREN A., KAYA M. A., LIGHTFOOT C. S.  
JOURNAL OF GEOPHYSICS AND ENGINEERING, vol.11, no.1, 2014 (SCI-Expanded)
- X. **Gold and Silver Prospecting Using Magnetic, Radiometry and Microgravity Methods in the Kisladağ Province of Western Turkey**  
Ercan O. A., ŞEREN A., ELMAS A.  
RESOURCE GEOLOGY, vol.64, no.1, pp.25-34, 2014 (SCI-Expanded)
- XI. **An investigation for potential extensions of the Karaca Cavern using geophysical methods**  
Şeren A., Babacan A. E., Gelişli K., Öğretmen Z., Kandemir R.  
CARBONATES AND EVAPORITES, vol.27, pp.321-329, 2012 (SCI-Expanded)
- XII. **The Sumela Monastery slope in Macka, Trabzon, Northeast Turkey: rock mass properties and stability assessment**  
Gelişli K., Şeren A., Babacan A. E., Catakli A., Ersoy H., Kandemir R.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.70, no.4, pp.577-583, 2011 (SCI-Expanded)
- XIII. **A Geophysical Investigation of the Late Roman Underground Settlement at Aydintepe, Northeast Turkey**  
Şeren A., Gelişli K., Catakli A.  
GEOARCHAEOLOGY-AN INTERNATIONAL JOURNAL, vol.23, no.6, pp.842-860, 2008 (SCI-Expanded)
- XIV. **Three-directional extensional deformation and formation of the Liassic rift basins in the Eastern Pontides (NE Turkey)**  
Eyuboglu Y., Bektas O., Seren A., MADEN N., OZER R., JACOBY W. R.  
GEOLOGICA CARPATHICA, vol.57, no.5, pp.337-346, 2006 (SCI-Expanded)
- XV. **Eastern Pontides and Black Sea: gravity inversion, crustal structure, isostasy and geodynamics**  
CAVSAK H., JACOBY W., Seren A.

JOURNAL OF GEODYNAMICS, vol.33, no.3, pp.201-218, 2002 (SCI-Expanded)

**XVI. Calculation and inversion of two-dimensional gravity in the vicinity of Lake Tuz, Turkey**

Seren A., CAVSAK H., JACOBY W.

JOURNAL OF GEODYNAMICS, vol.29, pp.87-102, 2000 (SCI-Expanded)

## Articles Published in Other Journals

- I. **New historical findings discovery at inner areas of Akcakale Castle (Trabzon, Turkey) with GPR Method**  
AYDIN Z., BABACAN A. E., ŞEREN A., GELİŞLİ K.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.40, no.2, pp.344-355, 2022 (ESCI)
- II. **IN-SITU WALL CONCRETE QUALITY USING VELOCITY FIELD-DEPENDENT MIGRATION IN ZIGANA AND TORUL TUNNELS**  
Saricicek I., ŞEREN A.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.38, no.2, pp.979-993, 2020 (ESCI)
- III. **Geological Properties of Eskigedik-Kızılçayır (Ovacık-Tunceli) Chromite Deposits and Determination of Ore Sites by Ground Penetrating Radar Method**  
ÖZTÜFEKÇİ ÖNAL A., ŞEREN A.  
International Journal of Pure and Applied Sciences, vol.4, no.1, pp.84-94, 2018 (Peer-Reviewed Journal)
- IV. **Investigation of Archaeological Remains in Alacahöyük with GPR on Central Anatolia**  
ŞEREN A., ÖĞRETMEN AYDIN Z., BABACAN A. E.  
Yerbilimleri/Hacettepe Üniversitesi Yerbilimleri Uygulama ve Araştırma Merkezi Dergisi, vol.38, no.1, pp.71-89, 2017 (Scopus)
- V. **Imaging fractures in a massive limestone with ground penetrating radar Haymana Turkey**  
DEMİRKOL AÇIKGÖZ A., ŞEREN A.  
Scientific Research And Essays, vol.7, no.40, pp.3368-3381, 2012 (Peer-Reviewed Journal)
- VI. **Trabzon ve Çevresi Mühendislik Jeofiziği İncelemeleri**  
Gelişli K., Şeren A., Turan Ö.  
Jeofizik Bülteni, vol.46, no.47, pp.108-112, 2004 (Peer-Reviewed Journal)
- VII. **Gravite Model Çalışmalarının Rejyonel-Rezidüel Anomali Ayırımı yoluyla yapılmasının sakıncaları**  
CAVSAK H., ŞEREN A.  
Uygulamalı Yer Bilimleri Dergisi, vol.5, pp.65-73, 2000 (Peer-Reviewed Journal)
- VIII. **İki Boyutlu Gravite Ters Çözümlemesi ile Tuz Gölü bölgesinde bir profil boyunca düşey yoğunluk dağılımı**  
ŞEREN A., CAVSAK H.  
Uygulamalı Yer Bilimleri Dergisi, vol.5, pp.49-63, 2000 (Peer-Reviewed Journal)
- IX. **Bouguer anomali haritalarına uygulanan En Küçük Kareler ve süzgeçleme yöntemlerinin birbiriyle kıyaslanması**  
ŞEREN A., KARA V.  
Süleyman Demirel Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.9, pp.39, 1996 (Peer-Reviewed Journal)
- X. **Topoğrafik Yüzeylerin Matematiksel Modellenmesi ve Jeofizikteki Uygulamaları**  
ŞEREN A., KARA V.  
Süleyman Demirel Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, vol.8, pp.27, 1995 (Peer-Reviewed Journal)