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Education Information

Doctorate, Ankara University, Fen Bilimleri Enst., Jeofizik Mühendisliği Anabilim Dalı, Turkey 1996 - 2002

Postgraduate, Ankara University, Fen Bilimleri Enst., Jeofizik Mühendisliği Anabilim Dalı, Turkey 1993 - 1996

Undergraduate, Istanbul Technical University, Maden Fakültesi, Jeofizik Mühendisliği Bölümü, Turkey 1985 - 1989

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Geophysical Engineering, Applied Geophysics, Archeo-geophysical, Gravity, Well Measurements, Geological Engineering, Applied Geology, Environmental Geology and Geophysics, Physics, Electromagnetism, Acoustics, Heat Transfer, Classical Mechanics and Fluid Dynamics, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2008 - 2010

Assistant Professor, Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2003 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- Fault modeling around southern Anatolia using the aftershock sequence of the Kahramanmaraş earthquakes ($M_w = 7.7$ and $M_w = 7.6$) and an interpretation of potential field data**
BÜYÜKSARAÇ A., BEKTAŞ Ö., Alkan H.
Acta Geophysica, vol.72, no.5, pp.2985-2996, 2024 (SCI-Expanded)
- Monitoring crustal movements in Istanbul using GNSS and GIS**
Yücel M. A., Pirtı A., Bayburt S., Bektaş Ö., Büyüksaraç A.
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- Field Reconnaissance and Earthquake Vulnerability of the RC Buildings in Adiyaman during 2023 Türkiye Earthquakes**

IŞIK E., Avcil F., İzol R., BÜYÜKSARAÇ A., Bilgin H., Harirchian E., Arkan E.

APPLIED SCIENCES-BASEL, no.7, 2024 (SCI-Expanded)

- IV. **Geotechnical and Structural Damages Caused by the 2023 Kahramanmaraş Earthquakes in Gölbaşı (Adıyaman)**
AKAR F., Işık E., Avcil F., BÜYÜKSARAÇ A., Arkan E., İzol R.
Applied Sciences (Switzerland), vol.14, no.5, 2024 (SCI-Expanded)
- V. **Effects of the February 6, 2023, Kahramanmaraş earthquake on structures in Kahramanmaraş city**
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- VI. **Failure mechanism by wrench faulting in Central Anatolia**
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Alkan H., BÜYÜKSARAÇ A., BEKTAŞ Ö.
Turkish Journal of Earth Sciences, vol.33, no.1, pp.56-68, 2024 (SCI-Expanded)
- VIII. **Achieving Intensity Distributions of 6 February 2023 Kahramanmaraş (Türkiye) Earthquakes from Peak Ground Acceleration Records**
BÜYÜKSARAÇ A., Işık E., BEKTAŞ Ö., Avcil F.
Sustainability (Switzerland), vol.16, no.2, 2024 (SCI-Expanded)
- IX. **Structural damages in masonry buildings in Adıyaman during the Kahramanmaraş (Türkiye) earthquakes (Mw 7.7 and Mw 7.6) on 06 February 2023**
Işık E., Avcil F., BÜYÜKSARAÇ A., İzol R., Hakan Arslan M., Aksoylu C., Harirchian E., Eyisüren O., Arkan E., Şakir Güngür M., et al.
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- X. **Structural damage evaluation of mosques and minarets in Adıyaman due to the 06 February 2023 Kahramanmaraş earthquakes**
Işık E., Avcil F., Arkan E., BÜYÜKSARAÇ A., İzol R., Topalan M.
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- XI. **The comparison of sectional damages in reinforced-concrete structures and seismic parameters on regional Basis; a case study from western Türkiye (Aegean Region)**
Işık E., Ulutaş H., BÜYÜKSARAÇ A.
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- XII. **Bedrock Depth Calculation of Çanakkale (Turkey) Basin Using Rayleigh Ellipticity and Microgravity Survey**
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- XIII. **Determination of Natural Fundamental Period of Minarets by Using Artificial Neural Network and Assess the Impact of Different Materials on Their Seismic Vulnerability**
Işık E., Ademović N., Harirchian E., Avcil F., BÜYÜKSARAÇ A., Hadzima-Nyarko M., Akif Bülbül M., Işık M. F., Antep B.
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- XIV. **Damage evaluation of masonry buildings during Kahramanmaraş (Türkiye) earthquakes on February 06, 2023**
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- XV. **A Comparative Study of the Effects of Earthquakes in Different Countries on Target Displacement in Mid-Rise Regular RC Structures**
Işık E., Hadzima-Nyarko M., Bilgin H., Ademović N., BÜYÜKSARAÇ A., Harirchian E., Bulajić B., Özmen H. B., Aghakouchaki Hosseini S. E.
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- XVI. **A Comparative Evaluation of Earthquake Code Change on Seismic Parameter and Structural Analysis;**

A case of Turkey

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ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.10, pp.12301-12321, 2022 (SCI-Expanded)

- XVII. **Determination of historical graves by ground penetrating radar method: Sakarya Field Battle (August 23-September 13, 1921, Turkey)**
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AUSTRALIAN JOURNAL OF FORENSIC SCIENCES, vol.54, no.6, pp.842-860, 2022 (SCI-Expanded)
- XVIII. **Coulomb stress change before and after 24.01.2020 Sivrice (Elazig) Earthquake (Mw=6.8) on the East Anatolian Fault Zone**
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- XX. **Geoheritage in a Mythical and Volcanic Terrain: an Inventory and Assessment Study for Geopark and Geotourism, Nemrut Volcano (Bitlis, Eastern Turkey)**
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- XXI. **A case study for determination of seismic risk priorities in Van (Eastern Turkey)**
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- XXII. **Time-dependent model for earthquake occurrence and effects of design spectra on structural performance: a case study from the North Anatolian Fault Zone, Turkey**
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- XXV. **Geophysical Investigation of Mount Nemrut Stratovolcano (Bitlis, Eastern Turkey) Through Aeromagnetic Anomaly Analyses**
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- XXVI. **Characteristics and properties of Bitlis ignimbrites and their environmental implications**
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- XXVIII. **High-resolution ground penetrating radar investigation of yerebatan (Basilica) cistern in istanbul (constantinople) for restoration purposes**
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YALÇINER C. Ç., BÜYÜKSARAÇ A., Kurban Y. C.

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- XXX. **Observation of behavior of the Ahlat Gravestones (TURKEY) at seismic risk and their recognition by QR code**
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STRUCTURAL ENGINEERING AND MECHANICS, vol.72, no.5, pp.643-652, 2019 (SCI-Expanded)
- XXXI. **Determination of indoor radon gas levels in some buildings constructed with Ahlat stone in Ahlat/Bitlis**
Kuluozturk M. F., Buyuksarac A., Ozbey F., Yalcin S., Dogru M.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.9, pp.5033-5038, 2019 (SCI-Expanded)
- XXXII. **Analysis of local site conditions through geophysical parameters at a city under earthquake threat: Canakkale, NW Turkey**
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- XXXIII. **3D Modeling and Tectonic Interpretation of the Erzincan Basin (Turkey) using Potential Field Data**
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- XXXIV. **Thermal Investigation in the Cappadocia Region, Central Anatolia-Turkey, Analyzing Curie Point Depth, Geothermal Gradient, and Heat-Flow Maps from the Aeromagnetic Data**
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- XXXV. **Modeling of shallow structures in the Cappadocia region using gravity and aeromagnetic anomalies**
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- XL. **The LF radio anomaly observed before the M-w=6.5 earthquake in Crete on October 12, 2013**
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- XLI. **Estimating shear wave velocity using acceleration data in Antakya (Turkey)**
Buyuksarac A., Over S., Genes M. C., Bikce M., Kacin S., BEKTAŞ Ö.
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- XLII. **Importance of ground properties in the relationship of ground vibration-structural hazard and land application**
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- XLIII. **Evaluation of Gravity and Aeromagnetic Anomalies for the Deep Structure and Possibility of Hydrocarbon Potential of the Region Surrounding Lake Van, Eastern Anatolia, Turkey**
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- XLIV. **Geophysical investigations at Agadere Cemetery, Gallipoli Peninsular, NW Turkey**
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- XLV. **GEOPHYSICAL INVESTIGATION OF BURIED CANNONS IN KUMKALE (DARDANELLES), TURKEY**
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- XLVI. **3D MODELLING AND STRUCTURAL INVESTIGATION OF THE CENTRAL VOLCANICS IN SLOVAKIA USING MAGNETIC DATA**
BEKTAŞ Ö., BÜYÜKSARAÇ A., Rozimant K.
CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, vol.8, no.4, pp.27-33, 2013 (SCI-Expanded)
- XLVII. **Geophysical investigation and hydrocarbon potential of Cankiri-Corum Basin, Turkey**
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- XLVIII. **Preliminary seismic microzonation of Sivas city (Turkey) using microtremor and refraction microtremor (ReMi) measurements**
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- LI. **Two-phased evolution of the Susehri Basin on the North Anatolian Fault Zone, Turkey**
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- LII. **Crustal Structure of Turkey from Aeromagnetic, Gravity and Deep Seismic Reflection Data**
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- LIII. **Wavelet analysis of the LF radio signals collected by the European VLF/LF network from July 2009 to April 2011**
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- LV. **Assessment of potential seismic hazard and site effect in Antakya (Hatay Province), SE Turkey**
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- LVIII. **Comment to "Comparative petroleum systems analysis of the interior basins of Turkey: Implications for petroleum potential" [Mar. Pet. Geol. 26 (2009) 1656-1676]**
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Articles Published in Other Journals

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- II. **Seismic Damages in Masonry Structural Walls and Solution Suggestions**
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- III. **Archaeo-geophysical Investigations in Ahlat Seljuk Square Cemetery, Bitlis, Eastern Anatolia TURKIYE**
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- IV. **Investigation of Site Characterization and Vulnerability in Antakya (Turkey) under Basin Effect**
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Non Academic Experience

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