

## **Prof. Ziyadin Çakır**

### **Personal Information**

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### **International Researcher IDs**

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### **Education Information**

Doctorate, Institut de Physique du Globe (IPG) de Paris, Litosfer Mekaniği Bölümü, France 1999 - 2003

Doctorate, Istanbul Technical University, Maden Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1999 - 2003

Postgraduate, University of Bristol, Science Faculty, United Kingdom 1993 - 1996

Undergraduate, Ankara University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1987 - 1991

### **Foreign Languages**

English

### **Dissertations**

Doctorate, Analysis of the crustal deformation caused by the 1999 Marmara earthquake sequence using synthetic aperture radar interferometry, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliği Bölümü, 2003

Doctorate, Analysis of the crustal deformation caused by the 1999 Marmara earthquake sequence using synthetic aperture radar interferometry, Institut De Physique Du Globe (Ipg) De Paris, Tectonics, 2003

Postgraduate, Tectonic significance of Quaternary travertine deposits in the Gediz and Menderes grabens, western Turkey, University Of Bristol, Science Faculty, 1996

### **Research Areas**

Technical Sciences, Geological Engineering, General Geology, Tectonics (Paleotectonics, Neotectonics, Seismotectonics)

### **Academic Titles / Tasks**

Professor, Istanbul Technical University, Maden, Jeoloji Mühendisliği, 2016 - Continues

Associate Professor, Istanbul Technical University, Maden, Jeoloji Mühendisliği, 2011 - 2016

Assistant Professor, Istanbul Technical University, Maden, Jeoloji Mühendisliği, 2006 - 2011

Research Assistant, Mersin University, Faculty Of Engineering, Department Of Geological Engineering, 1997 - 2006

Research Assistant, Université Louis-Pasteur: Strasbourg I, Ipgs, Sismologie, 2003 - 2005

## Academic and Administrative Experience

Director of the Center, Istanbul Technical University, Maden, Jeoloji Mühendisliği, 2014 - Continues

Head of Department, Istanbul Technical University, Maden, Jeoloji Mühendisliği, 2018 - 2020

## Advising Theses

Çakır Z., Türkiye'nin kuzey-batı bölgesindeki yüzeydeformasyonlarının yüksek çözünürlüklü insar verileriyardım..., Doctorate, G.Asan(Student), 2019

Çakır Z., Kaya Ş., Morphotectonic analysis of the East Anatolian fault zone (E. Turkey) using remote sensing techniques, Doctorate, A.KHALIFA(Student), 2018

Çakır Z., Extending openstreetmap usage for advanced routing services, Doctorate, M.Zia(Student), 2018

Çakır Z., Yer radarı ile karstik boşluk araştırmaları, Postgraduate, M.Tüzer(Student), 2015

Çakır Z., Analysis and modeling of crustal deformation using InSAR time series along selected active faults within Alpine-Himalayan belt, Doctorate, E.Çetin(Student), 2015

Çakır Z., 1 Ekim 1995 Dinar depreminin faylanma parametrelerinin insar ve sismoloji yöntemleriyle belirlenmesi, Doctorate, A.Gör.(Student), 2010

Çakır Z., Active faulting and earthquake scarps along the North Anatolian fault in the sea of Marmara, Doctorate, G.Uçarkuş(Student), 2010

Çakır Z., Active tectonics and paleoseismology of the ganos fault segment and seismic characteristic of the 9 August 1912 Murefte earthquake, Doctorate, M.ERSEN(Student), 2009

Çakır Z., Analysis and modelling of earthquake surface deformation with SAR interferometry: Case studies from the World, Doctorate, A.Murat(Student), 2008

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

- I. **Rapid ground subsidence in the Kucuk Menderes Graben (W. Turkey) captured by Sentinel-1 SAR data**  
Imamoglu M., Balık Şanlı F., Çakır Z., Kahraman F.  
ENVIRONMENTAL EARTH SCIENCES, vol.81, no.7, 2022 (SCI-Expanded)
- II. **Wide-area ground deformation monitoring in geothermal fields in western Turkey**  
Aslan G., Aydın H., Çakır Z.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.31, pp.247-259, 2022 (SCI-Expanded)
- III. **Sentinel-1 interferometric coherence and backscattering analysis for crop monitoring**  
Nasirzadehdizaji R., Çakır Z., BALIK ŞANLI F., ABDİKAN S., Pepe A., Calo F.  
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.185, 2021 (SCI-Expanded)
- IV. **Paradigm of Geological Mapping of the Adiyaman Fault Zone of Eastern Turkey Using Landsat 8 Remotely Sensed Data Coupled with PCA, ICA, and MNFA Techniques**  
Khalifa A., Bashir B., Çakır Z., Kaya Ş., Alsalman A., Henaish A.  
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.10, no.6, 2021 (SCI-Expanded)
- V. **Transient motion of the largest landslide on earth, modulated by hydrological forces**  
Aslan G., De Michele M., Raucoles D., Bernardie S., Çakır Z.  
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (SCI-Expanded)
- VI. **Present GPS velocity field along 1999 Izmit rupture zone: evidence for continuing afterslip 20 yr after the earthquake**  
ÖZARPACI S., DOĞAN U., ERGİNTAV S., Çakır Z., ÖZDEMİR A., Floyd M., Reilinger R.

- VII. **Long-term spatiotemporal evolution of land subsidence in Konya metropolitan area (Turkey) based on multisensor SAR data**  
Sireci N., Aslan G., Çakır Z.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.30, no.5, pp.681-697, 2021 (SCI-Expanded)
- VIII. **Evaluation of the Plio-Quaternary tectonic stress regime from fault kinematic analysis in the lake Van Basin (Eastern Anatolia)**  
Selcuk A. S., ERTURAÇ M. K., Sunal G., Çakır Z.  
JOURNAL OF STRUCTURAL GEOLOGY, vol.140, 2020 (SCI-Expanded)
- IX. **ASTER spectral band ratios for lithological mapping: a case study for measuring geological offset along the Erkenek Segment of the East Anatolian Fault Zone, Turkey**  
Khalifa A., Çakır Z., Kaya Ş., Gabr S.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.13, no.17, 2020 (SCI-Expanded)
- X. **Landslide Mapping and Monitoring Using Persistent Scatterer Interferometry (PSI) Technique in the French Alps**  
Aslan G., Fomelis M., Raucoules D., De Michele M., Bernardie S., Çakır Z.  
REMOTE SENSING, vol.12, no.8, 2020 (SCI-Expanded)
- XI. **Reactivation of the Adiyaman Fault (Turkey) through the Mw 5.7 2007 Sivrice earthquake: An oblique listric normal faulting within the Arabian-Anatolian plate boundary observed by InSAR**  
Senturk S., Çakır Z., Ergintav S., Karabulut H.  
JOURNAL OF GEODYNAMICS, vol.131, 2019 (SCI-Expanded)
- XII. **Reconstructing the deformation of the North Anatolian Fault Zone through restoring the Oligo-Miocene exhumation pattern of the Almacik Block (northwestern Turkey) based on the apatite (U-Th)/He ages**  
Sunal G., Erturac M. K., Gutsuz P., Dunkl I., Çakır Z.  
CANADIAN JOURNAL OF EARTH SCIENCES, vol.56, no.11, pp.1202-1217, 2019 (SCI-Expanded)
- XIII. **Interseismic strain build-up on the submarine North Anatolian Fault offshore Istanbul**  
Lange D., Kopp H., Royer J., Henry P., Çakır Z., Petersen F., Sakic P., Ballu V., Bialas J., Özeren M. S., et al.  
NATURE COMMUNICATIONS, vol.10, 2019 (SCI-Expanded)
- XIV. **Ground Deformation Analysis of Bolvadin (W. Turkey) by Means of Multi-Temporal InSAR Techniques and Sentinel-1 Data**  
Imamoglu M., Kahraman F., Çakır Z., Balık Şanlı F.  
REMOTE SENSING, vol.11, 2019 (SCI-Expanded)
- XV. **Quantifying the Partition Between Seismic and Aseismic Deformation Along Creeping and Locked Sections of the North Anatolian Fault, Turkey**  
Kaduri M., Gratier J., Lasserre C., Çakır Z., Renard F.  
PURE AND APPLIED GEOPHYSICS, vol.176, pp.1293-1321, 2019 (SCI-Expanded)
- XVI. **Sensitivity Analysis of Multi-Temporal Sentinel-1 SAR Parameters to Crop Height and Canopy Coverage**  
Nasirzadehdizaji R., Balık Şanlı F., Abdikan S., Cakir Z., Şekertekin A., Üstüner M.  
APPLIED SCIENCES-BASEL, vol.9, 2019 (SCI-Expanded)
- XVII. **Shallow Creep Along the 1999 Izmit Earthquake Rupture (Turkey) From GPS and High Temporal Resolution Interferometric Synthetic Aperture Radar Data (2011-2017)**  
Aslan G., Lasserre C., Çakır Z., Ergintav S., Özarpacı S., Doğan U., Bilham R., Renard F.  
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.124, pp.2218-2236, 2019 (SCI-Expanded)
- XVIII. **Turkey OpenStreetMap Dataset - Spatial Analysis of Development and Growth Proxies**  
Zia M., Cakir Z., Şeker D. Z.  
OPEN GEOSCIENCES, vol.11, pp.140-151, 2019 (SCI-Expanded)
- XIX. **Investigating Subsidence in the Bursa Plain, Turkey, Using Ascending and Descending Sentinel-1 Satellite Data**  
Aslan G., Çakır Z., Lasserre C., Renard F.

REMOTE SENSING, vol.11, 2019 (SCI-Expanded)

- XX. **Evaluation of the Relative Tectonic Activity of the Adiyaman fault within the Arabian-Anatolian plate boundary (eastern Turkey)**  
Khalifa A., Cakir Z., Owen L. A., Kaya S.  
GEOLOGICA ACTA, vol.17, 2019 (SCI-Expanded)
- XXI. **Evidence for tear faulting from new constraints of the 23 october 2011 Mw 7.1 Van, Turkey, earthquake based on InSAR, GPS, coastal uplift, and field observations**  
Akoglu A. M., Jonsson S., Wang T., Cakir Z., Doğan U., Ergintav S., Osmanoglu B., Feng G., Zabci C., Özdemir A., et al.  
Bulletin of the Seismological Society of America, vol.108, no.4, pp.1929-1946, 2018 (SCI-Expanded)
- XXII. **The 2014, M(W)6.9 North Aegean earthquake: seismic and geodetic evidence for coseismic slip on persistent asperities**  
KONCA A. Ö., Cetin S., KARABULUT H., Reilinger R., DOĞAN U., ERGİNTAV S., Çakır Z., Tarı E.  
GEOPHYSICAL JOURNAL INTERNATIONAL, vol.213, no.2, pp.1113-1120, 2018 (SCI-Expanded)
- XXIII. **Spatial Transformation of Equality - Generalized Travelling Salesman Problem to Travelling Salesman Problem**  
Zia M., Cakir Z., Şeker D. Z.  
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.7, 2018 (SCI-Expanded)
- XXIV. **Analysis of Secular Ground Motions in Istanbul from a Long-Term InSAR Time-Series (1992-2017)**  
Aslan G., Cakir Z., Ergintav S., Lasserre C., Renard F.  
REMOTE SENSING, vol.10, 2018 (SCI-Expanded)
- XXV. **Morphotectonic analysis of the East Anatolian Fault, Turkey**  
Khalifa A., Çakır Z., Owen L. A., Kaya Ş.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.27, pp.110-126, 2018 (SCI-Expanded)
- XXVI. **The implications of fault zone transformation on aseismic creep: Example of the North Anatolian Fault, Turkey**  
KADURİ M., GRATİER J., RENARD F., Cakir Z., Lasserre C.  
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.122, no.6, pp.4208-4236, 2017 (SCI-Expanded)
- XXVII. **Determining lateral offsets of rocks along the eastern part of the North Anatolian Fault Zone (Turkey) using spectral classification of satellite images and field measurements**  
Gursoy O., Kaya Ş., Çakır Z., Tatar O., Canbaz O.  
GEOMATICS NATURAL HAZARDS & RISK, vol.8, no.2, pp.1276-1288, 2017 (SCI-Expanded)
- XXVIII. **Surface creep on the North Anatolian Fault at Ismetpasa, Turkey, 1944-2016**  
Bilham R., Ozener H., MENCIN D., Dogru A., Ergintav S., Çakır Z., Aytun A., Aktug B., Yilmaz O., JOHNSON W., et al.  
JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.121, no.10, pp.7409-7431, 2016 (SCI-Expanded)
- XXIX. **An aseismic slip transient on the North Anatolian Fault**  
Rousset B., JOLIVET R., Simons M., LASSERRE C., Riel B., Milillo P., Çakır Z., RENARD F.  
GEOPHYSICAL RESEARCH LETTERS, vol.43, no.7, pp.3254-3262, 2016 (SCI-Expanded)
- XXX. **The region of the Strandja Sill (North Turkey) and the Messinian events**  
Suc J., GILLET H., Cagatay M. N., POPESCU S., LERICOLAIS G., ARMIJO R., MELINTE-DOBRINESCU M. C., SEN S., CLAUZON G., SAKINC M., et al.  
MARINE AND PETROLEUM GEOLOGY, vol.66, pp.149-164, 2015 (SCI-Expanded)
- XXXI. **Istanbul's earthquake hot spots: Geodetic constraints on strain accumulation along faults in the Marmara seismic gap**  
Ergintav S., REILINGER R. E., ÇAKMAK R., FLOYD M., Cakir Z., DOĞAN U., KING R. W., McClusky S., Ozener H.  
GEOPHYSICAL RESEARCH LETTERS, vol.41, no.16, pp.5783-5788, 2014 (SCI-Expanded)
- XXXII. **Monitoring of coal mining subsidence in peri-urban area of Zonguldak city (NW Turkey) with persistent scatterer interferometry using ALOS-PALSAR**  
Abdikan S., ARIKAN M., Sanli F. B., Cakir Z.  
ENVIRONMENTAL EARTH SCIENCES, vol.71, no.9, pp.4081-4089, 2014 (SCI-Expanded)
- XXXIII. **Postseismic deformation following the Mw 7.2, 23 October 2011 Van earthquake (Turkey): Evidence for aseismic fault reactivation**

- DOĞAN U., Demir D. O., Cakir Z., Ergintav S., Ozener H., AKOGLU A. M., NALBANT S. S., REILINGER R.  
Geophysical Research Letters, vol.41, no.7, pp.2334-2341, 2014 (SCI-Expanded)
- XXXIV. **Extent and distribution of aseismic slip on the Ismetpaşa segment of the North Anatolian Fault (Turkey) from Persistent Scatterer InSAR**  
Cetin E., Çakır Z., Meghraoui M., Ergintav S., Akoglu A. M.  
Geochemistry, Geophysics, Geosystems, vol.15, no.7, pp.2883-2894, 2014 (SCI-Expanded)
- XXXV. **InSAR velocity field across the north anatolian fault (eastern Turkey): Implications for the loading and release of interseismic strain accumulation**  
Cakir Z., Ergintav S., AKOGLU A. M., ÇAKMAK R., Tatar O., MEGHRAOUI M.  
Journal of Geophysical Research: Solid Earth, vol.119, no.10, pp.7934-7943, 2014 (SCI-Expanded)
- XXXVI. **Kinematic study at the junction of the East Anatolian fault and the Dead Sea fault from GPS measurements**  
Mahmoud Y., MASSON F., MEGHRAOUI M., Çakır Z., ALCHALBI A., YAVASOGLU H. H., Yonlu O., DAOUD M., ERGINTAV S., INAN S.  
JOURNAL OF GEODYNAMICS, vol.67, pp.30-39, 2013 (SCI-Expanded)
- XXXVII. **Interseismic strain accumulation across the North Tabriz Fault (NW Iran) deduced from InSAR time series**  
Karimzadeh S., Çakır Z., Osmanoglu B., SCHMALZLE G., Miyajima M., Amiraslazadeh R., DJAMOUR Y.  
JOURNAL OF GEODYNAMICS, vol.66, pp.53-58, 2013 (SCI-Expanded)
- XXXVIII. **Onset of aseismic creep on major strike-slip faults**  
Cakir Z., Ergintav S., Ozener H., Doğan U., Akoglu A. M., Meghraoui M., Reilinger R.  
Geology, vol.40, no.12, pp.1115-1118, 2012 (SCI-Expanded)
- XXXIX. **Seven years of postseismic deformation following the 2003 Mw=6.8 Zemmouri earthquake (Algeria) from InSAR time series**  
Cetin E., Meghraoui M., Cakir Z., Akoglu A. M., Mimouni O., Chebbah M.  
Geophysical Research Letters, vol.39, no.10, 2012 (SCI-Expanded)
- XL. **A two-step process for the reflooding of the Mediterranean after the Messinian Salinity Crisis**  
Bache F., POPESCU S., RABINEAU M., GORINI C., SUC J., CLAUZON G., OLIVET J., RUBINO J., MELINTE-DOBRINESCU M. C., ESTRADA F., et al.  
BASIN RESEARCH, vol.24, no.2, pp.125-153, 2012 (SCI-Expanded)
- XLI. **Crustal deformation and kinematics of the Eastern Part of the North Anatolian Fault Zone (Turkey) from GPS measurements**  
Tatar O., Poyraz F., Gursay H., Çakır Z., ERGINTAV S., Akpinar Z., Kocbulut F., Sezen F., Turk T., Hastaoglu K. O., et al.  
TECTONOPHYSICS, vol.518, pp.55-62, 2012 (SCI-Expanded)
- XLII. **Determining and modeling tectonic movements along the central part of the North Anatolian Fault (Turkey) using geodetic measurements**  
Yavasoglu H. H., TARI E., Tuysuz O., ÇAKIR Z., ERGINTAV S.  
JOURNAL OF GEODYNAMICS, vol.51, no.5, pp.339-343, 2011 (SCI-Expanded)
- XLIII. **Monitoring aseismic surface creep along the North Anatolian Fault (Turkey) using ground-based LIDAR**  
Karabacak V., Altunel E., Çakır Z.  
EARTH AND PLANETARY SCIENCE LETTERS, vol.304, pp.64-70, 2011 (SCI-Expanded)
- XLIV. **Western Termination of the Mw 7.4, 1999 Izmit Earthquake Rupture: Implications for the Expected Large Earthquake in the Sea of Marmara**  
Ucarkus G., Çakır Z., ARMIJO R.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.20, no.4, pp.379-394, 2011 (SCI-Expanded)
- XLV. **Rupture characteristics of the AD 1912 Murefte (Ganos) earthquake segment of the North Anatolian fault (western Turkey)**  
Aksoy M. E., MEGHRAOUI M., VALLEE M., Çakır Z.  
GEOLOGY, vol.38, no.11, pp.991-994, 2010 (SCI-Expanded)
- XLVI. **InSAR analysis of a blind thrust rupture and related active folding: the 1999 Ain Temouchent**

**earthquake (M (w) 5.7, Algeria) case study**

Belabbes S., MEGHRAOUI M., Çakır Z., BOUHADAD Y.

JOURNAL OF SEISMOLOGY, vol.13, no.4, pp.421-432, 2009 (SCI-Expanded)

**XLVII. The Messinian Salinity Crisis in the Dardanelles region: Chronostratigraphic constraints**

Melinte-Dobrinescu M. C., SUC J., CLAUZON G., POPESCU S., ARMIJO R., MEYER B., BILTEKIN D., Cagatay M. N., UCARKUS G., JOUANNIC G., et al.

PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.278, pp.24-39, 2009 (SCI-Expanded)

**XLVIII. Rupture parameters of the 2003 Zemmouri (M-w 6.8), Algeria, earthquake from joint inversion of interferometric synthetic aperture radar, coastal uplift, and GPS**

Belabbes S., WICKS C., Çakır Z., MEGHRAOUI M.

JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH, vol.114, 2009 (SCI-Expanded)

**XLIX. Synthetic aperture radar interferometry observations of the M = 6.0 Orta earthquake of 6 June 2000 (NW Turkey): Reactivation of a listric fault**

Cakir Z., AKOGLU A. M.

Geochemistry, Geophysics, Geosystems, vol.9, no.8, 2008 (SCI-Expanded)

**L. The 1994-2004 Al Hoceima (Morocco) earthquake sequence: Conjugate fault ruptures deduced from InSAR**

Akoglu A. M., Cakir Z., MEGHRAOUI M., BELABBES S., EL ALAMI S. O., ERGINTAV S., AKYUZ H. S.

Earth and Planetary Science Letters, vol.252, pp.467-480, 2006 (SCI-Expanded)

**LI. Surface deformation associated with the Mw 6.4, 24 February 2004 Al Hoceima, Morocco, earthquake deduced from InSAR: Implications for the active tectonics along North Africa**

Cakir Z., MEGHRAOUI M., AKOGLU A. M., JABOUR N., BELABBES S., AIT-BRAHIM L.

Bulletin of the Seismological Society of America, vol.96, no.1, pp.59-68, 2006 (SCI-Expanded)

**LII. Creeping along the Ismetpasa section of the North Anatolian fault (Western Turkey): Rate and extent from InSAR**

Cakir Z., AKOGLU A. M., BELABBES S., ERGINTAV S., MEGHRAOUI M.

Earth and Planetary Science Letters, vol.238, pp.225-234, 2005 (SCI-Expanded)

**LIII. Submarine fault scarps in the Sea of Marmara pull-apart (North Anatolian Fault): Implications for seismic hazard in Istanbul**

Armijo R., PONDARD N., MEYER B., UCARKUS G., DE LEPINAY B., MALAVIEILLE J., DOMINGUEZ S., GUTSCHER M., SCHMIDT S., BECK C., et al.

GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, vol.6, 2005 (SCI-Expanded)

**LIV. Coastal uplift and thrust faulting associated with the M-w=6.8 Zemmouri (Algeria) earthquake of 21 May, 2003**

Meghraoui M., MAOUCHE S., CHEMAA B., Cakir Z., AOUDIA A., HARBI A., ALASSET P., AYADI A., BOUHADAD Y., BENHAMOUDA F.

GEOPHYSICAL RESEARCH LETTERS, vol.31, no.19, 2004 (SCI-Expanded)

**LV. Coseismic and early post-seismic slip associated with the 1999 Izmit earthquake (Turkey), from SAR interferometry and tectonic field observations**

Cakir Z., DE CHABALIER J., ARMIJO R., MEYER B., BARKA A., PELTZER G.

GEOPHYSICAL JOURNAL INTERNATIONAL, vol.155, no.1, pp.93-110, 2003 (SCI-Expanded)

**LVI. The surface rupture and slip distribution of the 17 August 1999 Izmit earthquake (M 7.4), North Anatolian fault**

Barka A., AKYUZ H. S., ALTUNEL E., SUNAL G., Cakir Z., DIKBAS A., YERLI B., ARMIJO R., MEYER B., DE CHABALIER J., et al.

BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.92, no.1, pp.43-60, 2002 (SCI-Expanded)

**LVII. Surface rupture and slip distribution along the Karadere segment of the 17 August 1999 Izmit and the western section of the 12 November 1999 Duzce, Turkey, earthquakes**

Hartleb R., DOLAN J., AKYUZ H. S., DAWSON T., TUCKER A., YERLI B., ROCKWELL T., TORAMAN E., Cakir Z., DIKBAS A., et al.

BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA, vol.92, no.1, pp.67-78, 2002 (SCI-Expanded)

- LVIII. **The surface rupture and slip distribution of the August 17 1999 İzmit earthquake M 7.4 North Anatolian Fault**  
Barka A., Akyüz H. S., ALTUNEL E., SUNAL G., ÇAKIR Z., Dikbaş A., Yerli B., Armijo R., Meyer B.  
Bull. Seism. Soc. Amer., vol.92, no.1, pp.43-60, 2002 (SSCI)
- LIX. **Travertines: using travertines in active fault studies**  
Hancock P., CHALMERS R., ALTUNEL E., Cakir Z.  
JOURNAL OF STRUCTURAL GEOLOGY, vol.21, pp.903-916, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Creation and destruction of travertine monumental stones by earthquake faulting at Hierapolis Turkey**  
Hancock P., Chalmers R., ALTUNEL E., ÇAKIR Z., Becher Hancock A.  
Geological Society Special Publication, vol.171, pp.1-14, 2000 (Scopus)
- II. **Along strike discontinuities of active normal faults and its influence on Quaternary travertine deposition examples from western Turkey**  
ÇAKIR Z.  
Turkish Journal of Earth Sciences, vol.8, pp.67-80, 1999 (Peer-Reviewed Journal)

## Supported Projects

- Çakır Z., TUBİTAK Project, Hazar Gölü Palu Arasında Doğu Anadolu Fay Zonu Boyunca Gözlenen Krip Olayının Çok Disiplinli 114Y250 Araştırılması 7114Y250, 2015 - Continues
- Çakır Z., TUBİTAK Project, 1999 İzmit Kırığı Üzerindeki Asismik Yüzey Kaymasının Gps ve Lidar Ölçmeleriyle İzlenmesi, 2012 - Continues
- Çakır Z., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İTÜ Ulusal Coğrafi Bilgi Teknolojileri İnovasyon ve Araştırma Merkezi, 2012 - Continues
- Çakır Z., Project Supported by Higher Education Institutions, Doğu Anadolu Fayının Kayma Davranışının InSAR Yöntemiyle Araştırılması, 2016 - 2023
- Çakır Z., TÜBİTAK International Bilateral Joint Cooperation Program Project, İstanbul İçin Denizaltı Sismik Boşluk Araştırmaları ve Deprem Gözlemi (Maregami-2016), 2016 - 2021
- Çakır Z., Project Supported by Higher Education Institutions, Active Tectonics of the East Anatolian Fault, 2015 - 2021
- Çakır Z., Project Supported by Higher Education Institutions, Kuzey Anadolu Fayı İsmetpaşa Segmenti Üzerindeki Krip Hareketinin PslnSAR Zaman serileri ile İncelenmesi, 2012 - 2018
- Çakır Z., Project Supported by Higher Education Institutions, 21 MAYIS 2003 ( M=6,9) ZEMURİ CEZAYİR DEPREMİ SONRASI KABUK DEFORMASYONUNUN INSAR ZAMAN SERİLERİYLE BELİRLENMESİ, 2011 - 2018
- Çakır Z., Project Supported by Higher Education Institutions, POSTEİSMİK DEFORMATION OF THE 2003 ZEMMOURİ ALGERİA EARTQUAKE FROM INSAR, 2010 - 2018
- Çakır Z., Project Supported by Higher Education Institutions, Bir Listrik Faylanma Örneği: 6 Haziran 2000 Orta (Çankırı) Depremi, 2008 - 2018
- Çakır Z., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Orman Bilgis Sistemi Projesi, 2014 - 2016
- Çakır Z., TUBİTAK Project, 23 Ekim 2011 Mw 7.2 Van Depreminin Deprem Anı ve Sonrası Oluşan Kabuk Deformasyonlarının GPS ve INSAR Yöntemleriyle Araştırılması, 2012 - 2016
- Çakır Z., H2020 Project, New Directions in Seismic Hazard Assessment through Focused Earth Observation in the Marmara Supersite, 2012 - 2016
- Çakır Z., FP6 Project, New Directions in Seismic Hazard Assessment through Focused Earth Observation in the Marmara Supersite, 2012 - 2016
- Çakır Z., Project Supported by Higher Education Institutions, Analysis and Modelling of Crustal Deformation Along Selected Active Faults within the Africa-Eurasia Convergence Zone, 2013 - 2015

Çakır Z., Project Supported by Higher Education Institutions, Ganos Fayının Neotektonik, Paleosismolojik ve Sismotektonik Özelliklerinin Belirlenmesi, 2008 - 2015

Çakır Z., TUBITAK Project, Mudurnu vadisi boyunca görünen yükselimin Kuzey Anadolu Fayının güney kolu ile olan ilişkisi ve Almacık Bloğunun evriminin araştırılması Proje No 109Y257, 2010 - 2012

Çakır Z., TUBITAK Project, Türkiye Diri Fayları Boyunca Meydana Gelen Kabuk Deformasyonunun Yapay Açıklık Radar Interferometrisi InSAR Yöntemiyle incelenmesi, 2007 - 2010

Çakır Z., TUBITAK Project, Marmara Denizi çökel jeokimyası atlası No 103Y053, 2006 - 2008

## Activities in Scientific Journals

FRONTIERS IN EARTH SCIENCE, Assistant Editor/Section Editor, 2020 - Continues

Mediterranean Geoscience Reviews, Publication Committee Member, 2018 - Continues

## Memberships / Tasks in Scientific Organizations

American Geophysical Union, Member, 2014 - Continues, United States Of America

European Geophysical Union, Member, 2001 - Continues, Austria

## Scientific Refereeing

Project Supported by Public Organizations in Other Countries, Austrian Science Fund (FWF) , Austria, May 2021

TÜRKİYE JEOLJİ BÜLTENİ, National Scientific Refreed Journal, April 2021

GEOLOGY, SCI Journal, April 2021

TUNNELLING AND UNDERGROUND SPACE TECHNOLOGY, SCI Journal, April 2021

Journal of Sustainability Science and Management, Other Indexed Journal, April 2021

GEOPHYSICAL JOURNAL INTERNATIONAL, SCI Journal, April 2021

OPEN GEOSCIENCES, National Scientific Refreed Journal, January 2021

TURKISH JOURNAL OF EARTH SCIENCES, SCI Journal, December 2020

JOURNAL OF SEISMOLOGY, SCI Journal, October 2020

GEOPHYSICAL JOURNAL INTERNATIONAL, SCI Journal, October 2020

NATURE COMMUNICATIONS, SCI Journal, October 2020

JOURNAL OF GEODYNAMICS, SCI Journal, October 2020

JOURNAL OF GEODYNAMICS, SCI Journal, December 2019

OPENGEO-, Other journals, November 2019

JOURNAL OF GEODYNAMICS, SCI Journal, November 2019

Project Supported by Public Organizations in Other Countries, Research Grants Council (RGC) of Hong Kong, Turkey, October 2019

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, SCI Journal, June 2019

MARINE GEODESY, National Scientific Refreed Journal, June 2019

GEOLOGY, SCI Journal, June 2019

ANNALS OF GEOPHYSICS, SCI Journal, June 2019

MARINE GEOLOGY, SCI Journal, June 2019

REMOTE SENSING LETTERS, National Scientific Refreed Journal, May 2019

Project Supported by Public Organizations in Other Countries, Research Grants Council (RGC) of Hong Kong, Hong Kong, April 2019

ENVIRONMENTAL EARTH SCIENCES, National Scientific Refreed Journal, March 2019

Project Supported by Public Organizations in Other Countries, Helmholtz Association of German Research Centres, Germany, March 2019



Project Supported by Public Organizations in Other Countries, Research Grant Council (RGC) of Hong Kong, Hong Kong, July 2018  
Project Supported by Public Organizations in Other Countries, Research Grants Council (RGC) of Hong Kong, Hong Kong, July 2018

## **Scientific Consultations**

Bilgem, Scientific Consultancy, Istanbul Technical University, Maden, Jeoloji Mühendisliği, Turkey, 2017 - 2018  
TÜBİTAK MAM, Scientific Consultancy, Istanbul Technical University, Maden, Jeoloji Mühendisliği, Turkey, 2008 - 2012

## **Metrics**

Publication: 163  
Citation (WoS): 2049  
Citation (Scopus): 3065  
H-Index (WoS): 25  
H-Index (Scopus): 31

## **Congress and Symposium Activities**

European Geoscience Union, Session Moderator, Vienna, Austria, 2021  
European Geoscience Union, Session Moderator, Vienna, Austria, 2020  
European Geoscience Union, Session Moderator, Vienna, Austria, 2019

## **Invited Talks**

Introduction of on-going InSAR studies and postseismic deformation of the 1999 Izmit earthquake, Seminar, Germany, May 2019  
The North Anatolian Fault: its behavior and seismic gaps, Seminar, Germany, April 2016  
Onset and Mechanism of Surface Creep on Strike Slip Faults: Clues from the North Anatolian Fault, Conference, AGU, United States Of America, December 2014

## **Scholarships**

Yurtdışı lisansüstü eğitim bursu, YOK, 1993 - 1996

## **Non Academic Experience**

BILGEM  
TÜBİTAK YER ve DENİZ BİLİMLERİ ENSTİTÜSÜ  
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