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Personal Information

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Education Information

Doctorate, Institut De Physique Du Globe (Ipg) De Paris, Litosfer Mekanığı Bölümü, France 1999 - 2003

Doctorate, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliğı Bölümü, Turkey 1999 - 2003

Post Graduate, University Of Bristol, Science Faculty, United Kingdom 1993 - 1996

Under Graduate, Ankara Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliğı 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, Institut De Physique Du Globe (Ipg) De Paris, Tectonics, 2003

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

Post Graduate, 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, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliğı , 2016 - Continues

Associate Professor, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliğı Bölümü, 2011 - 2016

Assistant Professor, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliğı Bölümü, 2006 - 2011

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

Research Assistant, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliğı Bölümü, 1997 - 2003

Research Assistant, Mersin Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliğı Bölümü, 1993 - 1997

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

1. 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.

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- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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.
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- VIII. **Investigating Subsidence in the Bursa Plain, Turkey, Using Ascending and Descending Sentinel-1 Satellite Data**
Aslan G., Çakır Z., Lasserre C., Renard F.
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- IX. **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 (Journal Indexed in SCI)
- X. **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.
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- XI. **Evidence for Tear Faulting from New Constraints of the 23 October 2011 M-w 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.
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- XII. **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, pp.1113-1120, 2018 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **Analysis of Secular Ground Motions in Istanbul from a Long-Term InSAR Time-Series (1992-2017)**
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- XV. **Morphotectonic analysis of the East Anatolian Fault, Turkey**
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- XVI. **The implications of fault zone transformation on aseismic creep: Example of the North Anatolian Fault, Turkey**
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- XVIII. **Surface creep on the North Anatolian Fault at Isetmpasa, Turkey, 1944-2016**
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- XIX. **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.
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- XX. **The region of the Strandja Sill (North Turkey) and the Messinian events**
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- XXI. **InSAR velocity field across the North Anatolian Fault (eastern Turkey): Implications for the loading and release of interseismic strain accumulation**
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- XXVI. **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.
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- XXVII. **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., Amiraslanzadeh R., DJAMOUR Y.
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- XXVIII. **Onset of aseismic creep on major strike-slip faults**
Cakir Z., Ergintav S., Ozener H., Doğan U., Akoglu A. M. , Meghraoui M., Reilinger R.
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- XXIX. **Seven years of postseismic deformation following the 2003 Mw=6.8 Zemmouri earthquake (Algeria) from InSAR time series**
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- XXX. **A two-step process for the reflooding of the Mediterranean after the Messinian Salinity Crisis**
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- XXXI. **InSAR analysis of a blind thrust rupture and related active folding: the 1999 Ain Temouchent earthquake (M (w) 5.7, Algeria) case study**
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- XXXIII. **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.
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- XXXIV. **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.
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- XXXV. **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.
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- XXXVI. **Surface deformation associated with the M-w 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., JABOUR N., BELABBES S., AIT-BRAHIM L.
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- XXXVII. **Creeping along the ismetpasa section of the North Anatolian fault (Western Turkey): Rate and extent from InSAR**
Cakir Z., AKOGLU A., BELABBES S., ERGINTAV S., MEGHRAOUI M.
EARTH AND PLANETARY SCIENCE LETTERS, vol.238, pp.225-234, 2005 (Journal Indexed in SCI)
- XXXVIII. **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.
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- XXXIX. **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, 2004 (Journal Indexed in SCI)
- XL. **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, pp.93-110, 2003 (Journal Indexed in SCI)
- XLII. **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, pp.43-60, 2002 (Journal Indexed in SCI)
- XLIII. **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, pp.67-78, 2002 (Journal Indexed in SCI)
- XLIII. **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, pp.43-60, 2002 (Journal Indexed in SSCI)
- XLIV. **Travitonics: using travertines in active fault studies**
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JOURNAL OF STRUCTURAL GEOLOGY, vol.21, pp.903-916, 1999 (Journal Indexed in SCI)

Supported Projects

- Çakır Z., Project Supported by Higher Education Institutions, Kuzey Anadolu Fayı İsmetpaşa Segmenti Üzeindeki Krip Hareketinin PslnSAR Zaman serileri ile İncelenmesi, 2012 - 2018
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Citations

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