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Eğitim Bilgileri

Post Doktora, University of Oulu, Sodankyla Geophysical Observatory (Sgo), Laboratory Of Applied Seismology, Finlandiya 2015 - 2016

Doktora, İstanbul Teknik Üniversitesi, Avrasya Yer Bilimleri Enstitüsü, İklim Ve Deniz Bilimleri Abd, Türkiye 2005 - 2011

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Deniz Bilimleri Enstitüsü, Deniz Jeolojisi Ve Jeofiziği Abd, Türkiye 1997 - 2003

Araştırma Alanları

Jeofizik Mühendisliği, Yer Fiziği, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç. Dr., Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2018 - Devam Ediyor

Doç. Dr., Novosibirsk State University, Geological sciences, Geophysics, 2019 - 2020

Dr. Öğr. Üyesi, University of Oulu, Sodankyla geophysical Observatory, Applied Seismology, 2015 - 2016

Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2017 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2017 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2017 - Devam Ediyor

Van Yüzüncü Yıl Üniversitesi, Mühendislik, Jeofizik Mühendisliği, 2013 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2013 - Devam Ediyor

Anabilim/Bilim Dalı Başkanı, Van Yüzüncü Yıl Üniversitesi, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2013 - Devam Ediyor

Verdiği Dersler

Jeofizik, Lisans, 2021 - 2022

Sismik Afetler Risk Analizi ve Kriz Yönetimi, Lisans, 2021 - 2022

Yer Fiziği ve Jeodinamik Sistemler, Yüksek Lisans, 2021 - 2022

İstatiksel Sismoloji, Yüksek Lisans, 2021 - 2022

Sismotektonik, Yüksek Lisans, 2021 - 2022

Deprem Jeofiziği, Yüksek Lisans, 2016 - 2017

Sismolojiye Giriş, Lisans, 2014 - 2015

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **New strain configuration of convergence in the Arabia-Eurasia collisional zone: A comprehensive analysis of large shear zones inferred from geodetic and seismic observations**
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- II. **Multiple segmentation and seismogenic evolution of the 6th February 2023 (Mw 7.8 and 7.7) consecutive earthquake ruptures and aftershock deformation in the Maras triple junction region of SE-Anatolia, Turkey**
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- III. **Decoupled co-seismic deformation and stress changes during the 2021 (Mw 6.0, 6.4) North Bandar Abbas doublet earthquakes in Fin region, SE-syntaxis of Zagros, Iran: new insights into the tectonic deformation decoupling process**
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Environmental Earth Sciences, cilt.82, sa.22, 2023 (SCI-Expanded)
- IV. **Long-Term Ion Hydration Process and Lithosphere-Atmosphere Coupling following the 2021 Fagradalsfjall Volcanic Eruption Using Remotely Sensed Data**
Şentürk E., Adil M. A., Tokar M., İban M. C., Akyürek Ö.
ADVANCES IN SPACE RESEARCH, sa.-, ss.12-25, 2022 (SCI-Expanded)
- V. **Upper-to mid-crustal seismic attenuation structure above the mantle wedge in East Anatolia, Turkey: Imaging crustal scale segmentation and differentiation**
Toker M., ŞAHİN Ş.
PHYSICS OF THE EARTH AND PLANETARY INTERIORS, cilt.329, 2022 (SCI-Expanded)
- VI. **Early preliminary results on co-seismic deformation of the island of Samos associated with co-seismic slip following the October 2020 M-w 6.9 Samos earthquake (Greece)**
Toker M., ŞENTÜRK E., Bayik C.
ARABIAN JOURNAL OF GEOSCIENCES, cilt.14, sa.23, 2021 (SCI-Expanded)
- VII. **Shallow seismic characteristics and distribution of gas in lacustrine sediments at Lake Ercek, Eastern Anatolia, Turkey, from high-resolution seismic data**
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ENVIRONMENTAL EARTH SCIENCES, cilt.80, sa.21, 2021 (SCI-Expanded)
- VIII. **An integrated critical approach to off-fault strike-slip motion triggered by the 2011 Van mainshock (Mw 7.1), Eastern Anatolia (Turkey): New stress field constraints on subcrustal deformation**
Toker M., PINAR A., HOŞKAN N.
JOURNAL OF GEODYNAMICS, cilt.147, 2021 (SCI-Expanded)
- IX. **Symptomatic discretization of small earthquake clusters reveals seismic coupling to 2017 Bodrum earthquake (Mw 6.6) in the Gulf of Gokova (SW corner of Turkey): Viscous-compliant seismogenesis over back-arc setting**
Toker M.

JOURNAL OF AFRICAN EARTH SCIENCES, cilt.177, 2021 (SCI-Expanded)

- X. **New insight into the 24 January 2020, M-w 6.8 Elazig earthquake (Turkey): An evidence for rupture-parallel pull-apart basin activation along the East Anatolian Fault Zone constrained by Geodetic and Seismological data**
IRMAK T. S., Toker M., Yavuz E., ŞENTÜRK E., Guvenaltin M. A.
ANNALS OF GEOPHYSICS, cilt.64, sa.4, 2021 (SCI-Expanded)
- XI. **Crustal Poisson's ratio tomography and velocity modeling across tectono-magmatic lake regions of Eastern Anatolia (Turkey): New geophysical constraints for crustal tectonics**
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JOURNAL OF GEODYNAMICS, cilt.131, 2019 (SCI-Expanded)
- XII. **Structural patterns of the Lake Ercek Basin, eastern Anatolia (Turkey): evidence from single-channel seismic interpretation**
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MARINE GEOPHYSICAL RESEARCH, cilt.39, sa.4, ss.567-588, 2018 (SCI-Expanded)
- XIII. **Source mechanisms and faulting analysis of the aftershocks in the Lake Ercek area (Eastern Anatolia, Turkey) during the 2011 Van event (Mw 7.1): Implications for the regional stress field and ongoing deformation processes**
Toker M., Pinar A., Tur H.
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- XIV. **The structural elements and tectonics of the Lake Van basin (Eastern Anatolia) from multi-channel seismic reflection profiles**
Toker M., Şengör A. M. C., Schluter F. D., Demirbag E., Cukur D., İmren C., Niessen F.
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- XV. **Structural characteristics of the Lake Van Basin, eastern Turkey, from high-resolution seismic reflection profiles and multibeam echosounder data: geologic and tectonic implications**
Çukur D., Krastel S., Tomonaga Y., Schmincke H., Sumita M., Meydan A. F., Cagatay M. N., Toker M., Kim S., Kong G., et al.
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- XVI. **The 3-D strain patterns in Turkey using geodetic velocity fields from the RTK-CORS (TR) network**
Kutoglu H. S., Toker M., MEKİK Ç.
JOURNAL OF AFRICAN EARTH SCIENCES, cilt.115, ss.246-270, 2016 (SCI-Expanded)
- XVII. **Erratum: Corrigendum to "The 3-D strain patterns in Turkey using geodetic velocity fields from the RTK-CORS (TR) network" (Journal of African Earth Sciences (2016) 115 (246–270) (S1464343X15301242)(10.1016/j.jafrearsci.2015.12.002))**
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- XVIII. **Discrete characteristics of the aftershock sequence of the 2011 Van earthquake**
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- XIX. **Time-dependent analysis of aftershock events and structural impacts on intraplate crustal seismicity of the Van earthquake (Mw 7.1, 23 October 2011), E-Anatolia**
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- XX. **Sedimentary evolution of Lake Van (Eastern Turkey) reconstructed from high-resolution seismic investigations**
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- V. **Fifteen-year evolution of the crustal inner shear deficit in a reference to the recent East Anatolian earthquakes**
Kaftan V., Güvenaltın M. A., Dokukin P., Toker M., Irmak T. S.
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- VI. **Van Gölü Havzası ve Civarının Depremselliğine Genel Bir Bakış**
Alkan H., Toker M., Akkaya İ.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.28, sa.1, ss.317-333, 2023 (Hakemli Dergi)
- VII. **Evolution of the crustal inner displacement deficit in a reference to Elazığ earthquake series just before occurring the devastate Ekinözü-Nuradagi earthquakes (M7.5-7.8, 2023-02-06)**
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- VIII. **VAN GÖLÜ BÖLGESİNDE 2011 YILI DEPREMLERİNİN ARTÇI ŞOK SERİSİ KIRILMA KARMAŞIĞINA YAPISAL BAĞLANTI(DOĞU ANADOLU, TÜRKİYE)**
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- IX. **FK-array response to four Greenland glacial earthquakes from geopsy transfer functions**
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- X. **The Array Analyzing of The High Quality Glacial Seismic Events Active in Greenland Using Long-Period Surface Rayleigh Wave Detection by the German Regional Seismic Network**
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- XI. **Van Gölü havzasının temel yapısal unsurları tektonik ve sedimanter evrimi Doğu Türkiye**
TOKER M., ŞENGÖR A. M. C.
İTÜ Dergisi Seri D: Mühendislik, cilt.10, sa.4, ss.119-130, 2011 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **The b-Value Analysis of Aftershocks 170 Days After the 23 October 2011 Van Earthquake (M_w 7.1) of the Lake Van Basin, Eastern Anatolia**
Toker M.
EARTHQUAKES -TECTONICS, HAZARD AND RISK MITIGATION, Taher Zouaghi, Editör, Intech Honor Publishing Company, Rijeka, ss.89-116, 2017
- II. **Multi-Clusteral Nature of the 2011 Van Earthquake Aftershock Sequence in the Accretionary Region**

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TOKER M.

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III. Van Gölü Havzasının Tektonik ve Sismolojik Özellikleri

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IV. Yer Bilimleri ve Yapı Mühendisliği Açısından 2011 Van Depremleri

Özvan A., Köse O., Akkaya İ., Selçuk L., Akın M., Akın M., Toker M., Aras İ. A., Sengul M. A., Bor M.

YÜZÜNCÜ YIL ÜNİVERSİTESİ 23 EKİM ve 9 KASIM 2011 VAN DEPREMLERİ RAPORU, Tunçtürk Y.,Özvan A.,Tapan M., Editör, Yüzüncü Yıl Üniversitesi, Van, ss.7-78, 2012

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **SYNOPTIC ANALYSIS OF CRUSTAL DEFORMATION WITH AN EYE ON MIGRATION OF THE STRONGEST EARTHQUAKES IN EASTERN ANATOLIA (TURKEY) 2009–2023**
Dokukin P., Güvenaltın M. A., Kaftan V., TOKER M.
III All-Russian Scientific Conference with International Participation: Modern Methods of Seismic Hazard Assessment and Earthquakes Prediction, Moskva, Rusya, 25 - 26 Ekim 2023, ss.281-285
- II. **The clusteral seismicity of SW-corner of Turkey, a case study-I: The Gokova Gulf-I**
TOKER M.
Russian Academy of Sciences, 15. International Seismology Workshop, "Modern methods of processing and interpretation of seismological data, Novosibirsk, Rusya, 7 - 11 Eylül 2020
- III. **The clusteral seismicity of SW-corner of Turkey, a case study-II: The Gokova Gulf-II**
TOKER M.
Russian Academy of Sciences, 15. International Seismology Workshop, "Modern methods of processing and interpretation of seismological data, Novosibirsk, Rusya, 7 - 11 Eylül 2020
- IV. **Frequency-wavenumber Array Simulation Parameters and Power spectra of the Glacial Earthquakes in Greenland from Surface Seismic Waves**
TOKER M.
6. ULUSLARARASI DEPREM SEMPOZYUMU (IESKO 2019), Kocaeli, Türkiye, 25 - 27 Eylül 2019, ss.634-640
- V. **GRÖNLAND'TA TESPİT EDİLEN BUZUL DEPREMLERİNİN YÜZEY DALGASI VERİ ANALİZİ**
TOKER M.
3. Ulusal Kutup Bilimleri Çalıştayı, Ankara, Türkiye, 5 - 06 Eylül 2019
- VI. **Insar analysis of ayvacik 2017 (mw 5.3) earthquake swarm (canakkale, nw-Turkey)**
ABDİKAN S., Imamoglu M., Alasag T., Toker M., Kutoglu S., ŞAHİN Ş.
4th ISPRS Geospatial Week 2019, Enschede, Hollanda, 10 - 14 Haziran 2019, cilt.42, ss.1907-1911
- VII. **Azimuthal rotation-dependent spatial distributional patterns of small repeaters estimated from microseismic data-set of Gokova Gulf (SW-Turkey)**
Toker M.
10th Congress of Balkan Geophysical Society, BGS 2019, Albena, Bulgaristan, 18 - 22 Eylül 2019
- VIII. **Extensive strike-slip faulting to NNW-part of Lake Erçek region by finite source and coulomb modeling (E-Anatolia)**
Toker M., Pinar A.
10th Congress of Balkan Geophysical Society, BGS 2019, Albena, Bulgaristan, 18 - 22 Eylül 2019
- IX. **3D near-surface basin modelling and faulting styles of the Lake Erçek Basin, Eastern Anatolia (Turkey), from high-resolution seismic reflection images**
TOKER M., TUR H.
INQUA SEQS- Quaternary Stratigraphy in Karst and Cave Sediments, Postojna, Slovenya, 12 - 17 Eylül 2018, ss.75-

- X. **Subcrustal aftershock activity in the NE-part of the source rupture area of the October 23, 2011 Van Earthquake ($M_w=7.1$), Eastern Anatolia (Turkey)**
TOKER M., PINAR A.
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- XI. **The crustal attenuation tomography beneath the Lake Van Region (Eastern Anatolia, Turkey)**
Şahin Ş., Toker M.
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- XII. **The continental movement in the Isparta Angle (SW-Anatolia, Turkey) from 3D tomographic images of V_p , V_s , and V_p/V_s**
TOKER M., ŞAHİN Ş.
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- XIII. **The crustal tomography (V_p , V_s , V_p/V_s) across the orogenic lake regions of Eastern Anatolia High Plateau (E-Turkey):Key constraints for thin-skinned tectonics**
TOKER M., ŞAHİN Ş.
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- XIV. **GPS hız verilerini kullanarak, Türkiyedeki sismik deformasyonların üç boyutlu deformasyon-gerilim tensör analizi (RTK-CORS Veri Ağı)**
Toker M., Kutoğlu H. Ş.
I. Uluslararası Türk Dünyası Mühendislik ve Fen Bilimleri Kongresi, Antalya, Türkiye, 7 - 10 Aralık 2017, cilt.12, sa.67, ss.56
- XV. **THE APPLICATION OF SEISMIC ARRAY-PROCESSING TECHNIQUE TO GERMAN REGIONAL SEISMIC NETWORK (GRSN) USING CONTINUOUS WAVEFORM DATA ANALYZING PROCEDURE BY SEISMIC HANDLER MOTIF (SHM) SOFTWARE**
TOKER M., Kozlovskaya E.
12. Uluslararası Sismoloji Çalıştayı, Sismoloji Verisinin Yorumlanmasında ve Veri-İşlemde Modern Yöntemler, Almata, Kazakistan, 11 - 15 Eylül 2017, ss.351-355
- XVI. **Recent progress in research of lake Erçek seismic survey (less, 2015) project-I-active deformation and faulting patterns of the lake Erçek Basin (Eastern Anatolia)**
Toker M., TUR H.
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Toker M., Pınar A., TUR H.
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- XVIII. **Seismic Hazard Assessment of Lake Van Region deduced from Distributional Dynamics of Hypocenter Activity, Eastern Turkey**
Toker M.
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- XIX. **The Preliminary Results from High Resolution Seismic Survey of Lake Erçek LESS 2015 project Eastern Anatolia**
TOKER M., TUR H.
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- XX. **Temporal Evolution of Seismicity around the hypocenter of the 23 October 2011 Van earthquake deduced from seismic b value estimates Eastern Anatolia**
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- XXI. **Temporal imaging of the b value anomalies of the 2011 Van earthquake M_w 7.1 Eastern Turkey A**

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TOKER M.

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- XXII. **The 3D strain tensor analysis of seismic deformations in Turkey using GPS velocity field RTK CORS Network**
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- XXIII. **3D Strain Estimation and Velocity Analysis of Turkey from GPS data**
TOKER M., Hakan Senol K.
7th BgGS National Conference With International Participation GEOPHYSICS 2015, Sofya, Bulgaristan, 20 - 23 Mayıs 2015, sa.19
- XXIV. **The Plio-Quaternary Deformation of the Lake Van Basin (Eastern Anatolia) from multi-channel seismic reflection profiles**
TOKER M., ŞENGÖR A. M. C., Krastel S., DemirelSchluter F., Niessen F.
International Conference INQUA-SEQS 2014, Jekaterinburg, Rusya, 10 - 16 Eylül 2014, ss.166-169
- XXV. **The nature of seismicity patterns after the October 23rd 2011 Van Earthquake Mw 7.2 Eastern Anatolia Stress state from variation in frequency magnitude distribution with time and depth**
TOKER M., Köksal E.
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- XXVI. **Strike oblique slip deformation and structural elements of Lake Van Basin by multi channel seismic reflection data Eastern Anatolia**
ŞENGÖR A. M. C., TOKER M., Krastel S., DEMİRBAĞ M. E.
2013 International Van Earthquake Symposium, Van, Türkiye, 23 - 27 Ekim 2013
- XXVII. **Time-dependent Aftershock Seismicity Patterns and Their Propagation - The Van Earthquake (7.2), 23 Oct. 2011, E-Anatolia**
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- XXVIII. **Seismic Patterns of the Van Earthquake (ML 7.2, 23 October 2011), Eastern Anatolia High Anatolia**
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- XXIX. **Shallow seismicity of the Van earthquake ML 7.2 23 October 2011 Eastern Anatolia monitoring and analysis of the seismic data**
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- XXX. **Unstable Shelf Margin Tectonics of NE Corner of Mediterranean Region the Cilicia Adana Basin**
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- XXXI. **Structural Impacts on Crustal Seismicity of Lake Van Basin Eastern Turkey Seismological Constraints for Crustal Deformation**
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- XXXII. **The Highlands Rifting Phenomena in Lake Van Dome as a morphological paradigm and model synthesis Eastern Anatolia Accretionary Complex EAAC E Turkey**
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- XXXIII. **Suture-parallel extension of Lake Van Basin, Eastern Anatolia Accretionary Complex (EAAC), E-Turkey: An implication for the Highlands extensional paradigm**
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- XXXIV. **Implications for formation mechanisms of methane hydrates and recommendations for the future researches in correlative anoxic basins observations from R/V METEOR (IFM GEOMAR) expedition in the Black Sea Cruise M72 4 2007**
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- XXXV. **Seismic and Crustal Implications for evolving accretionary wedge basin Lake Van Eastern Anatolia Accretionary Complex E Turkey**
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- XXXVI. **Extensional magma propagation, magmatic interactions with pre existing boudary faults and implications for post collisional crust forming process in a small Turkic type orogen lake Van region Eastern Anatolia Accretionary Complex E Turkey**
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