

Assoc. Prof. Mustafa Toker

Personal Information

Office Phone: [+90 432 444 5065](tel:+904324445065) Extension: 22222

Fax Phone: [+90 543 624 7503](tel:+905436247503)

Email: mustafatoker@yyu.edu.tr

Web: <https://avesis.yyu.edu.tr/mustafatoker>

International Researcher IDs

ORCID: 0000-0001-9981-6605

Publons / Web Of Science ResearcherID: W-3111-2017

ScopusID: 55347458900

Yoksis Researcher ID: 17327

Biography

Assist. Prof. Dr. Mustafa TOKER

Yuzuncu Yil University, Faculty of Engineering and Architecture

Department of Geophysical Engineering, Division of Physics of Earth

Zeve Campus, 65080 Van/Turkey

Post-Doctoral Study:

University of Oulu, Sodankylä Geophysical Observatory (SGO)/Oulu Unit, POB 3000,
FIN-90014, Oulu/Finland

Email: tokermu@gmail.com

He was born in Kırşehir in 1977. He graduated from Yıldız Technical University with a bachelor's degree in Geophysics in 1996. He received his master's degree from Middle East Technical University, Division of Marine Geology and Geophysics (Erdemli/Mersin) in 2003. He received his PhD from Istanbul Technical University, Eurasian Institute of Earth Sciences in 2011 (İstanbul). He has been working as a assistant professor at Yuzuncu Yil University in Van since 2013 and Post-doctoral researcher at University of Oulu in Finland since 2015 (August). He published research papers in various academic journals in English and in Turkish on tectonics, active deformation, structural development, faulting and faults, statistical seismology, seismotectonics. He teaches courses in introduction to seismology and physics of earthquakes.

Education Information

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

Doctorate, Istanbul Technical University, Avrasya Yer Bilimleri Enstitüsü, İklim Ve Deniz Bilimleri Abd, Turkey 2005 - 2011

Postgraduate, Middle East Technical University, Institute Of Marine Sciences, Deniz Jeolojisi Ve Jeofiziği Abd, Turkey 1997 - 2003

Research Areas

Geophysical Engineering, Ground Physics, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2018 - Continues

Associate Professor, Novosibirsk State University, Geological sciences, Geophysics, 2019 - 2020

Assistant Professor, University of Oulu, Sodankyla geophysical Observatory, Applied Seismology, 2015 - 2016

Academic and Administrative Experience

Head of Department, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2017 - Continues

Head of Department, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2017 - Continues

Head of Department, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2017 - Continues

Van Yüzüncü Yil University, Mühendislik, Jeofizik Mühendisliği, 2013 - Continues

Head of Department, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2013 - Continues

Head of Department, Van Yüzüncü Yil University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2013 - Continues

Courses

Jeofizik, Undergraduate, 2021 - 2022

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

Yer Fiziği ve Jeodinamik Sistemler, Postgraduate, 2021 - 2022

İstatiksel Sismoloji, Postgraduate, 2021 - 2022

Sismotektonik, Postgraduate, 2021 - 2022

Deprem Jeofiziği, Postgraduate, 2016 - 2017

Sismolojiye Giriş, Undergraduate, 2014 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- 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**
Toker M., Pınar A.
Journal of Asian Earth Sciences, vol.271, 2024 (SCI-Expanded)
- 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**
Toker M., Yavuz E., Utkucu M., Uzunca F.
Physics of the Earth and Planetary Interiors, vol.345, 2023 (SCI-Expanded)
- 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**
Toker M., Durmuş H., Utkucu M.
Environmental Earth Sciences, vol.82, no.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., Toker M., İban M. C., Akyürek Ö.
ADVANCES IN SPACE RESEARCH, no.-, pp.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, vol.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, vol.14, no.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**
Toker M., Tur H.
ENVIRONMENTAL EARTH SCIENCES, vol.80, no.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, vol.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, vol.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, vol.64, no.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**
Toker M., ŞAHİN Ş.
JOURNAL OF GEODYNAMICS, vol.131, 2019 (SCI-Expanded)
- XII. **Structural patterns of the Lake Ercek Basin, eastern Anatolia (Turkey): evidence from single-channel seismic interpretation**
Toker M., Tur H.
MARINE GEOPHYSICAL RESEARCH, vol.39, no.4, pp.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.
JOURNAL OF ASIAN EARTH SCIENCES, vol.150, pp.73-86, 2017 (SCI-Expanded)
- 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.
JOURNAL OF AFRICAN EARTH SCIENCES, vol.129, pp.165-178, 2017 (SCI-Expanded)
- 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.
INTERNATIONAL JOURNAL OF EARTH SCIENCES, vol.106, no.1, pp.239-253, 2017 (SCI-Expanded)
- 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, vol.115, pp.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))**

Kutoglu H., Toker M., Mekik C.

JOURNAL OF AFRICAN EARTH SCIENCES, vol.124, pp.517-518, 2016 (SCI-Expanded)

XVIII. Discrete characteristics of the aftershock sequence of the 2011 Van earthquake

Toker M.

JOURNAL OF ASIAN EARTH SCIENCES, vol.92, pp.168-186, 2014 (SCI-Expanded)

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

Toker M.

CENTRAL EUROPEAN JOURNAL OF GEOSCIENCES, vol.5, no.3, pp.423-434, 2013 (SCI-Expanded)

XX. Sedimentary evolution of Lake Van (Eastern Turkey) reconstructed from high-resolution seismic investigations

Cukur D., Krastel S., Demirel-Schlueter F., Demirbag E., İmren C., Niessen F., Toker M.

INTERNATIONAL JOURNAL OF EARTH SCIENCES, vol.102, no.2, pp.571-585, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fifteen-year evolution of the crustal total shear strain in a reference to the recent East Anatolian earthquakes**
Kaftan V., Güvenaltın M. A., Dokukin P., Toker M., Irmak T. S.
Geophysical center of russian Academy of sciences, vol.65, no.42, 2023 (Peer-Reviewed Journal)
- II. **Fifteen-year evolution of the crustal dilatation in a reference to the recent East Anatolian earthquakes**
Kaftan V., Güvenaltın M. A., Dokukin P., Toker M., Irmak T. S.
Geophysical center of Russian Academy of Sciences, vol.12, no.12, 2023 (Peer-Reviewed Journal)
- III. **Co- and pre-seismic crustal deformations related to large earthquakes between years of 2009 and 2023 using continuous CORS-TR GNSS observations in the Anatolian diagonal (Turkey)**
Dokukin P., Güvenaltın M. A., Kaftan V., Toker M.
Russian Journal of Earth Sciences, vol.23, no.5, pp.1-12, 2023 (ESCI)
- IV. **Fifteen-year evolution of the crustal surface displacements in a reference to the recent East Anatolian earthquakes**
Kaftan V., Güvenaltın M. A., Dokukin P., Toker M., Irmak T. S.
Geophysical center of russian Academy of sciences, vol.12, no.14, 2023 (Peer-Reviewed Journal)
- 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.
Geophysical center of russian Academy of sciences, vol.34, no.43, 2023 (Peer-Reviewed Journal)
- VI. **Van Gölü Havzası ve Civarının Depremselliğine Genel Bir Bakış**
Alkan H., Toker M., Akkaya İ.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.1, pp.317-333, 2023 (Peer-Reviewed Journal)
- VII. **Evolution of the crustal inner displacement deficit in a reference to Elazığ earthquake series just before occurring the devastate Ekinozu-Nuradagi earthquakes (M7.5–7.8, 2023-02-06)**
Dokukin P., Güvenaltın M. A., Irmak T. S., Kaftan V., Toker M.
Geophysical center of russian Academy of sciences, vol.12, no.12, 2023 (Scopus)
- VIII. **VAN GÖLÜ BÖLGESİNDE 2011 YILI DEPREMLERİNİN ARTÇI ŞOK SERİSİ KIRILMA KARMAŞIĞINA YAPISAL BAĞLANTI(DOĞU ANADOLU, TÜRKİYE)**
Toker M.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.9, no.1, pp.27-51, 2021 (Peer-Reviewed Journal)
- IX. **FK-array response to four Greenland glacial earthquakes from geopsy transfer functions**

Toker M.

Geophysica, vol.54, no.2, pp.23-43, 2019 (Scopus)

- 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**

Toker M.

Hittite Journal of Science and Engineering, vol.5, no.2, pp.165-173, 2018 (Peer-Reviewed Journal)

- XI. **Van Gölü havzasının temel yapısal unsurları tektonik ve sedimanter evrimi Doğu Türkiye**

TOKER M., ŞENGÖR A. M. C.

İTÜ Dergisi Seri D: Mühendislik, vol.10, no.4, pp.119-130, 2011 (Peer-Reviewed Journal)

Books & Book Chapters

- 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.

in: EARTHQUAKES -TECTONICS, HAZARD AND RISK MITIGATION, Taher Zouaghi, Editor, Intech Honor Publishing Company, Rijeka, pp.89-116, 2017

- II. **Multi-Clusteral Nature of the 2011 Van Earthquake Aftershock Sequence in the Accretionary Region of Eastern Anatolia**

TOKER M.

in: Environment and Ecology at the Beginning of 21st Century, Prof. Dr. Recep EFE, Prof. Dr. Carmen BIZZARRI, Prof. Dr. İsa CÜREBAL, Prof. Dr. Gulnara N. NYUSUPOVA, Editor, ST. KLIMENT OHRIDSKI UNIVERSITY PRESS, Sofya, pp.43-617, 2015

- III. **Van Gölü Havzasının Tektonik ve Sismolojik Özellikleri**

Toker M., Ecevitoglu B.

Anadolu Üniversitesi Yayınevi, Eskişehir, 2012

- 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.

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

Refereed Congress / Symposium Publications in Proceedings

- 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, Russia, 25 - 26 October 2023, pp.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, Russia, 7 - 11 September 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, Russia, 7 - 11 September 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, Turkey, 25 - 27 September 2019, pp.634-640
- V. **GRÖNLAND'TA TESPİT EDİLEN BUZUL DEPREMLERİNİN YÜZEY DALGASI VERİ ANALİZİ**
TOKER M.
3. Ulusal Kutup Bilimleri Çalıştayı, Ankara, Turkey, 5 - 06 September 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, Netherlands, 10 - 14 June 2019, vol.42, pp.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, Bulgaria, 18 - 22 September 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, Bulgaria, 18 - 22 September 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, Slovenia, 12 - 17 September 2018, pp.75-78
- X. **Subcrustal aftershock activity in the NE-part of the source rupture area of the October 23, 2011 Van Earthquake (Mw=7.1), Eastern Anatolia (Turkey)**
TOKER M., PINAR A.
36th General Assembly of the European Seismological Commission (ESC), Valletta, Malta, 2 - 07 September 2018
- XI. **The crustal attenuation tomography beneath the Lake Van Region (Eastern Anatolia, Turkey)**
Şahin Ş., Toker M.
36th General Assembly of the European Seismological Commission (ESC), Valletta, Malta, 2 - 07 September 2018
- XII. **The continental movement in the Isparta Angle (SW-Anatolia, Turkey) from 3D tomographic images of Vp, Vs, and Vp/Vs**
TOKER M., ŞAHİN Ş.
36th General Assembly of the European Seismological Commission (ESC), Valletta, Malta, 2 - 07 September 2018
- XIII. **The crustal tomography (Vp, Vs, Vp/Vs) across the orogenic lake regions of Eastern Anatolia High Plateau (E-Turkey):Key constraints for thin-skinned tectonics**
TOKER M., ŞAHİN Ş.
36th General Assembly of the European Seismological Commission (ESC), Valletta, Malta, 2 - 07 September 2018
- 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, Turkey, 7 - 10 December 2017, vol.12, no.67, pp.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 Yorumlanması ve Veri-İşlemde Modern Yöntemler, Almata, Kazakistan, 11 - 15 September 2017, pp.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.
9th Congress of the Balkan Geophysical Society, BGS 2017, Belek, Antalya, Turkey, 5 - 09 November 2017, vol.2017-November

- XVII. Recent progress in research of lake Erçek seismic survey (less, 2015) project-II - Source mechanisms of the aftershocks in the Lake Erçek area (Eastern Anatolia)**
 Toker M., Pinar A., TUR H.
 9th Congress of the Balkan Geophysical Society, BGS 2017, Belek, Antalya, Turkey, 5 - 09 November 2017, vol.2017-November
- XVIII. Seismic Hazard Assessment of Lake Van Region deduced from Distributional Dynamics of Hypocenter Activity, Eastern Turkey**
 Toker M.
 Collaborative Conference on Earthquake Science and Engineering (CCESE 2016), Budapeşte, Hungary, 4 - 08 September 2016, vol.3, no.12, pp.4
- XIX. The Preliminary Results from High Resolution Seismic Survey of Lake Erçek LESS 2015 project Eastern Anatolia**
 TOKER M., TUR H.
 The 35th International Geological Congress, Cape-Town, South Africa, 27 August - 04 September 2016, no.1202
- XX. Temporal Evolution of Seismicity around the hypocenter of the 23 October 2011 Van earthquake deduced from seismic b value estimates Eastern Anatolia**
 TOKER M.
 The 35th International Geological Congress, Cape-Town, South Africa, 27 August - 04 September 2016
- XXI. Temporal imaging of the b value anomalies of the 2011 Van earthquake Mw 7.1 Eastern Turkey A new look on the seismic radiation and deformation characteristics of this event**
 TOKER M.
 The Observatory Days 2016 (Sodankylä Geophysical Observatory.), Sodankylä, Finland, 13 - 15 January 2016
- XXII. The 3D strain tensor analysis of seismic deformations in Turkey using GPS velocity field RTK CORS Network**
 TOKER M., Hakan Senol K.
 The 26th IUGG General Assembly, Prague, Czech Republic, Prag, Czech Republic, 22 June - 02 July 2015
- 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, Bulgaria, 20 - 23 May 2015, no.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., Demirel Schluter F., Niessen F.
 International Conference INQUA-SEQS 2014, Jekaterinburg, Russia, 10 - 16 September 2014, pp.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.
 2013 International Van Earthquake Symposium, Van, Turkey, 23 - 27 October 2013
- 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, Turkey, 23 - 27 October 2013
- XXVII. Time-dependent Aftershock Seismicity Patterns and Their Propagation - The Van Earthquake (7.2), 23 Oct. 2011, E-Anatolia**
 TOKER M.
 The 7th Congress of Balkan Geophysical Society (BGS), Tirane, Albania, 7 - 10 October 2013
- XXVIII. Seismic Patterns of the Van Earthquake (ML 7.2, 23 October 2011), Eastern Anatolia High Anatolia**
 TOKER M., ECEVİTOĞLU G. B.
 Knowledge for the future IAHS-IAPSO-IASPEI-IUGG Joint Assembly, Göteborg, Sweden, 22 - 26 July 2013
- XXIX. Shallow seismicity of the Van earthquake ML 7.2 23 October 2011 Eastern Anatolia monitoring and analysis of the seismic data**

TOKER M., ECEVİTOĞLU G. B.

Annual Scientific Conference of the Bulgarian Geological Society with international participation "GEOSCIENCES 2012", Sofya, Bulgaria, 13 - 14 December 2012, pp.125-126

- XXX. **Unstable Shelf Margin Tectonics of NE Corner of Mediterranean Region the Cilicia Adana Basin**
Toker M., Ediger V., Evans G.
International Conference on Geology, Geotechnology and Mineral Resources of INDOCHINA (GEOINDO 2011), Khon Kaen, Thailand, 1 - 03 December 2011
- XXXI. **Structural Impacts on Crustal Seismicity of Lake Van Basin Eastern Turkey Seismological Constraints for Crustal Deformation**
TOKER M., Krastel S., Demirel Schlüter F., DEMİRBAĞ M. E., ŞENGÖR A. M. C.
6th Congress and Technical Exhibition of Balkan Geophysical Society, Budapest, Hungary, 3 - 06 October 2011
- XXXII. **The Highlands Rifting Phenomena in Lake Van Dome as a morphological paradigm and model synthesis Eastern Anatolia Accretionary Complex EAAC E Turkey**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E.
Scientific Conference on Geological processes in the Lithospheric Plates Subduction, Collision, and Slide Environments, Vladivostok, Russia, 20 - 26 September 2011
- XXXIII. **Suture-parallel extension of Lake Van Basin, Eastern Anatolia Accretionary Complex (EAAC), E-Turkey: An implication for the Highlands extensional paradigm**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E., ŞENGÖR A. M. C.
The 12th International Workshop on Modeling of Mantle Convection and Lithosphere Dynamics, Döllnsee, Germany, 20 - 25 August 2011
- 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**
TOKER M., Bialas J., Klauke I., RV METEOR cruise S. C.
AAPG European Region Annual Conference and Exhibition, Kiev, Ukraine, 17 - 19 October 2010
- XXXV. **Seismic and Crustal Implications for evolving accretionary wedge basin Lake Van Eastern Anatolia Accretionary Complex E Turkey**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E.
Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia, Ankara, Turkey, 4 - 08 October 2010
- XXXVI. **Extensional magma propagation, magmatic interactions with pre existing boundary faults and implications for post collisional crust forming process in a small Turkic type orogen lake Van region Eastern Anatolia Accretionary Complex E Turkey**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E.
XIX Congress of the Carpathian-Balkan Geological Association, Selanik, Greece, 23 - 26 September 2010, pp.8-10
- XXXVII. **Seismic evidences of magma-hydrothermal deformations and implications for intraplate volcanic seismology: The Lake Van Basin, Eastern Anatolia Accretionary Complex (EAAC), E-Turkey**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E.
The 12th Symposium of Study of Earth's Deep Interior (SEDI), Kaliforniya, United States Of America, 18 - 23 July 2010
- XXXVIII. **Scientific observations and the work reports from R V METEOR IFM GEOMAR expedition in the Black Sea Cruise M72 4 2007**
Bialas J., Klauke I., TOKER M., Scientific Crew R. M. C.
2nd International Symposium on the Geology of the Black Sea Region, Ankara, Turkey, 5 - 09 October 2009, pp.33-34
- XXXIX. **Seismic effect of magmatic and tectonic events on the static and dynamic stress triggering processes driving intra-lake seismicity: The Lake Van Basin, Eastern Anatolia Accretionary Complex, E-Turkey**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E., İMREN C.
IASPEI General Assembly, 2009, Cape-Town, South Africa, 10 - 16 January 2009
- XL. **Thinned crust-oblique slip faults and mechanism of intraplate volcanic lake seismicity: The Lake Van Basin, Eastern Anatolia Accretionary Complex (EAAC), E-Turkey**

TOKER M., Krastel S., DemirelSchlueter F., DEMİRBAĞ M. E., İMREN C.

IASPEI General Assembly-2009, Cape-Town, South Africa, 10 - 16 January 2009

- XLII. Salt related instability and Gravity potential enhanced deformation in the NE Corner of Mediterranean**
TOKER M., Ediger V., Evans G.
The 18th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 14 - 17 October 2008
- XLIII. Tectonics and Kinematics of Prevailing Salt Regime in an Incompatibility Oblique Rift Structure An Updated Case Study on the Cilicia Adana Basin NE Mediterranean**
TOKER M., Ediger V., Evans G.
The 18th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 14 - 17 October 2008
- XLIV. Halotectonic instability and gravity-potential-enhanced deformation in the NE-corner of Mediterranean**
TOKER M., Ediger V., Evans G.
The 33rd International Geological Congress, Oslo, Norway, 6 - 14 August 2008
- XLV. Thermal cooling of Lake Van Basin deep structure and crustal consolidation, Anatolia Accretionary Complex, (E-Turkey)**
TOKER M., Krastel S., DemirelSchlueter F., DEMİRBAĞ M. E., İMREN C.
The 33rd International geological Congress, Oslo, Oslo, Norway, 6 - 14 August 2008
- XLVI. Basin inversion and extensional magmatism by accretionary wedge deformation in Lake Van Basin, Eastern Anatolia High Plateau (E-Turkey)**
TOKER M., Krastel S., DemirelSchlueter F., DEMİRBAĞ M. E., İMREN C.
The 33rd International Geological Congress, Oslo, Norway, Oslo, Norway, 6 - 14 August 2008
- XLVII. Distortion of the Salt-Cored Fold System and Its Effects upon Abyssal Plain Sedimentary Processes in the Cilicia-Adana Evaporitic Basin, the NE-Mediterranean***
TOKER M., Ediger V., Evans G.
American Association Petroleum Geologists (AAPG) European Region Energy Conference and Exhibition, Atina, Greece, 18 - 21 November 2007
- XLVIII. Volcano Seismicity of Lake Van E Turkey A Comparative Analysis of Seismic Reflection and Three Component velocity seismogram data and new insights into volcanic lake seismicity**
TOKER M., Krastel S., Demirel Schlueter F., DEMİRBAĞ M. E., İMREN C.
International Earthquake Symposium Kocaeli, Kocaeli, Turkey, 22 - 24 October 2007
- XLIX. Salt deformation and pore fluid related hydraulics-induced overburden instability and overpressure regime in the Cilicia-Adana Basin, the NE-Mediterranean Sea**
TOKER M., Ediger V., Evans G.
The 2nd International Conference and Exhibition on 'xx Underwater Acoustic Measurements: Technologies and Results'xx, Girit, Greece, 27 - 30 June 2007, pp.1271-1281
- L. Muş-Van Havzası ve Doğu Van segmenti sığ derinlikli, uzun periyotlu deprem aktivitelerine volkanosismojenik bir yaklaşım**
TOKER M.
Türkiye Kuvaterner Sempozyumu TURQUA-VI, İstanbul, Turkey, 16 - 18 May 2007
- LI. Intra basin salt regime and its thin skinned tectonism into delta sedimentation of the Cilicia Adana Basin The NE Mediterranean**
TOKER M., Ediger V., Evans G.
European Geosciences Union 2007 (EGU 2007), Viyana, Austria, 13 - 18 April 2007
- LII. Critical research parameters among Halokinetic processes organizing the Cilician Salt-Sediment system, the Northeastern Mediterranean**
TOKER M., Ediger V., Evans G.
CIESM-38 CONGRESS, Commission Internationale Pour L'Exploration Scientifique de la Mer Mediterranee, İstanbul, Turkey, 9 - 13 April 2007
- LIII. Physiographic Morpho tectonic provinces and Sedimentary patterns of the Cilicia Adana basin the NE-Mediterranean**

TOKER M., Ediger V., Evans G.

European Geosciences Union 2007 (EGU 2007), Viyana, Austria, 4 - 09 April 2007

- LIII. **Formation mechanisms of salt withdrawal minibasins in the NE-corner of mediterranean**
Toker M., Ediger V., Evans G.
69th European Association of Geoscientists and Engineers Conference and Exhibition 2007 -, London, England, 11 - 14 June 2007, vol.3, pp.1449-1455
- LIV. **Mechanism of delta overburden deformation above viscous creep of Messinian substratum of the Cilicia-Adana Basin, the NE-Mediterranean Sea**
TOKER M., Ediger V., Evans G.
The 17th International Geophysical Congress and Exhibition of Turkey (UCTEA), Ankara, Turkey, 14 - 17 November 2006, pp.25-29
- LV. **Van segmenti mikrodeprem potansiyelini kontrol eden neotektonik unsurlar**
TOKER M.
Aktif Tektonik Araştırma Grubu 10. Toplantısı, İzmir, Turkey, 2 - 04 November 2006
- LVI. **Determination of potential ICDP Sites and Reconstruction of Lake Level Changes at Lake Van Turkey based on high resolution seismic Surveying**
Demirel Schlueter F., Krastel S., DEMİRBAĞ M. E., İMREN C., TOKER M., Niessen F., Litt T., Sturm M.
European Geosciences Union 2006 (EGU 2006), Viyana, Austria, 13 - 19 April 2006
- LVII. **Incoherent Acoustic Response of Visco Plastic Salt Intrusions as Being Diagnostic for Abnormal Fluid Pressure regimes in the Cilicia Adana Basin NE Mediterranean Sea**
TOKER M., Ediger V.
The Fourth Congress of the Balkan Geophysical Society, Bükreş, Romania, 9 - 12 October 2005, vol.1, pp.377-380
- LVIII. **The Orientation of the Nonlinear Stress Strain Relations to Acoustic Parameters and Elastic Modulus for Irreversible Plastic Strain Field in The Cilciai Adana Basin NE Mediterranean Sea**
TOKER M., Ediger V.
The Fourth Congress of Balkan Geophysical Society, Bükreş, Romania, 9 - 12 October 2005, vol.8, pp.381-384
- LIX. **Formation mechanisms of acoustic mirror images as a proxy of abnormal pressure regime in the Cilicia Adana Basin NE Mediterranean**
TOKER M., Ediger V.
Türkiye Kuvaterner Sempozyumu V (TURQUA-V), İstanbul, Turkey, 2 - 03 June 2005
- LX. **Seismic Pre-Site Survey for a potential new ICDP site PaleoVan at Lake Van, Turkey**
Demirel Schlueter F., Krastel S., Niessen F., DEMİRBAĞ M. E., İMREN C., TOKER M., Litt T., Sturm M.
European Geosciences Union 2005 (EGU), Viyana, Austria, 11 - 18 April 2005
- LXI. **Seismo-acoustic reflection features and formation dynamics of evaporitic incoherent wipe-outs in the Cilicia-Adana Basin, NE-Mediterranean Sea**
TOKER M., Ediger V.
The 16th International Geophysical Congress and Exhibition of Turkey (UCTEA), Ankara, Turkey, 7 - 10 December 2004, pp.189-196
- LXII. **Lower amplitude energy and seismic reflection loss from non lithologic acoustic impedance changes at a elastic to pressurised viscous plastic interface in the Cilicia Adana Basin NE Mediterranean Sea**
TOKER M., Ediger V.
The 16th International Geophysical Congress and Exhibition of Turkey, Ankara, Turkey, 7 - 10 December 2004, pp.213
- LXIII. **Lower amplitude energy and seismic reflection loss from non-lithologic acoustic impedance changes at a elastic to pressurised viscous-plastic fluid interface in the Cilicia-Adana Basin, NE-Mediterranean Sea**
TOKER M., Ediger V.
The 16th International Geophysical Congress and Exhibition of Turkey (UCTEA), Ankara, Turkey, 7 - 10 December 2004, pp.213-220
- LXIV. **The Domes Shaped Acoustic Voids of Homogeneous Salt Zone in the Cilicia Adana NE Mediterranean Sea**

TOKER M., Ediger V., Evans G.

The Seventh European Conference on Underwater Acoustics ECUA, Hague, Netherlands, 5 - 08 July 2004, vol.2, pp.851-857

LXV. Kilikya Baseni Pliyosen Kuvaterner Çökellerinin Alansal Dağılımına Etki Eden Faktörler KD Akdeniz

TOKER M., Ediger V., Evans G.

Mersin Üniversitesi Mühendislik Fakültesi Jeoloji Mühendisliği Bölümü 10. Yıl Sempozyumu, Mersin, Turkey, 15 - 18 October 2003

LXVI. Geomorphology of the Messinian Unconformity Surface controlled by regional dynamics in the Cilicia Basin, NE-Mediterranean

TOKER M., Ediger V., Evans G.

The 14th International Petroleum and Natural Gas Congress and Exhibition of Turkey, Ankara, Turkey, 4 - 12 July 2003, pp.65-74

Supported Projects

Toker M., Project Supported by Higher Education Institutions, 23 Ekim 2011, Mw 7.2 Van Depremine neden olan aktif fay sistemlerinin, Erçek Gölü ve karasal uzantılarının tespiti ve haritalanması ve çökel deformasyonlarının analizi, 2015 - 2018

Activities in Scientific Journals

Geodynamics and Tectonophysics, Committee Member, 2017 - Continues

International Journal of Petroleum and Petrochemical Engineering, Committee Member, 2015 - Continues

Cambridge Scholar Publishing , Committee Member, 2017 - 2021

Memberships / Tasks in Scientific Organizations

The Geophysical Society of Finland, Member, 2019 - Continues, Finland

Asian Council of Science editors (ACSE), Member, 2015 - 2021, United Arab Emirates

Scientific Refereeing

JOURNAL OF GEODYNAMICS, Journal Indexed in SCI-E, September 2022

JOURNAL OF GEODYNAMICS, Journal Indexed in SCI-E, June 2022

FRONTIERS IN EARTH SCIENCE, Journal Indexed in SCI-E, June 2022

Türk deprem araştırma dergisi (Online), National Scientific Refreed Journal, May 2022

JOURNAL OF AFRICAN EARTH SCIENCES, Journal Indexed in SCI-E, May 2022

Metrics

Publication: 101

Citation (WoS): 210

Citation (Scopus): 215

H-Index (WoS): 10

H-Index (Scopus): 9

Congress and Symposium Activities

the XII International Seismological Workshop "Mod-ern methods of processing and interpretation of seismological data",
Invited Speaker, Almati, Kazakhstan, 2017

Temporal Evolution of Seismicity around the hypocenter of the 23 October 2011 Van earthquake deduced from seismic
b-value estimates, Eastern Anatolia, Attendee, Cape Town, South Africa, 2016

The Preliminary Results from High Resolution Seismic Survey of Lake Erçek (LESS-2015 project), Eastern Anatolia,
Attendee, South Africa, 2016

The 3D-strain tensor analysis of seismic deformations in Turkey using GPS velocity field (RTK-CORS Network), Attendee,
Praha, Czech Republic, 2015

Awards

Toker M., En iyi davetli konuşmacı, Rus Bilimler Akademisi Federal Araştırma Merkezi Başkanlığı, September 2017

Toker M., Bilimsel Çalışma Takdir ve Teşvik Ödülü, Bulgarian Academy of Sciences, December 2012

Non Academic Experience

Novorisibirsk State University, Russian Academy of Sciences, Russia

Oulu Üniversitesi, Sodankyla Jeofizik Gözlemevi, Oulu/Finlandiya

Bulgar Bilimler Akademisi Jeoloji Enstitüsü