

## Assoc. Prof. Mustafa Toker

### Personal Information

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### 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

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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

Post Graduate, Middle East Technical University, Deniz Bilimleri Enstitüsü, Deniz Jeolojisi Ve Jeofiziği Abd, Turkey 1997 - 2003

### Research Areas

Geophysical Engineering, Ground Physics, Engineering and Technology

### Academic and Administrative Experience

## Courses

Deprem Jeofiziği, Post Graduate, 2016 - 2017  
Sismolojiye Giriş, Under Graduate, 2014 - 2015

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

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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. , Tokar M., Kim S., Kong G., et al.  
INTERNATIONAL JOURNAL OF EARTH SCIENCES, vol.106, no.1, pp.239-253, 2017 (Journal Indexed in SCI)
- VI. **The 3-D strain patterns in Turkey using geodetic velocity fields from the RTK-CORS (TR) network**  
Kutoglu H. S. , Tokar M., MEKİK Ç.  
JOURNAL OF AFRICAN EARTH SCIENCES, vol.115, pp.246-270, 2016 (Journal Indexed in SCI)
- VII. **Discrete characteristics of the aftershock sequence of the 2011 Van earthquake**  
Toker M.  
JOURNAL OF ASIAN EARTH SCIENCES, vol.92, pp.168-186, 2014 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

## 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, "Efe, R., Bizzarri, C., Cürebal, İ., Nyusupova, G.N.", Editor, St. Kliment Ohridski University Press, Sofia,, Sofya, pp.603-617, 2015

**III. 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. GPS hız verilerini kullanarak, Türkiye'deki 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

**II. 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., Pınar A., Tur H.

9th Congress of the Balkan Geophysical Society, Antalya, Turkey, 5 - 09 November 2017, pp.45-98

**III. 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, Antalya, Turkey, 5 - 09 November 2017, pp.23-30

**IV. FK-ARRAY RESPONSE SIMULATION PARAMETERS OF THE FOUR GLACIAL EVENTS IN GREENLAND DERIVED FROM ARRAY TRANSFER FUNCTIONS BY GPFKSIMULATOR (GEOPSY) SOFTWARE**

Toker M., Kozlovskaya E.

the XII International Seismological Workshop "Modern methods of processing and interpretation of seismological data", Almata, Kazakhstan, 5 - 15 September 2017, pp.123-146

**V. "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.

the XII International Seismological Workshop "Modern methods of processing and interpretation of seismological data", Almata, Kazakhstan, 5 - 14 September 2017, pp.351-358

**VI. 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

**VII. The Preliminary Results from High Resolution Seismic Survey of Lake Erçek (LESS-2015 project), Eastern Anatolia**

Toker M., Tur H.

35TH INTERNATIONAL GEOLOGICAL CONGRESS, Cape Town, South Africa, 27 August - 04 September 2016, vol.123, no.1202, pp.13

**VIII. 3D Strain Estimation and Velocity Analysis of Turkey from GPS data.**

Toker M.

7th BgGS National Conference with international participation "GEOPHYSICS 2015", 25th anniversary of BgGS,

## 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

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

## Memberships / Tasks in Scientific Organizations

Asian Council of Science editors (ACSE), Member, 2015 - Continues

## Edit Congress and Symposium Activities

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

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

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

## Citations

Total Citations (WOS):37

h-index (WOS):4

## 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