

## Assoc. Prof. MURAT ÖZKAPTAN

### Personal Information

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### International Researcher IDs

ScholarID: 2gO11swAAAAJ

ORCID: 0000-0002-8317-7754

Publons / Web Of Science ResearcherID: AAE-8071-2019

ScopusID: 56499328800

Yoksis Researcher ID: 136518

### Education Information

Doctorate, Middle East Technical University, Fen Bilimleri, Jeoloji, Turkey 2008 - 2015

Postgraduate, Karadeniz Technical University, Fen Bilimleri, Jeofizik, Turkey 2003 - 2006

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Post-late cretaceous rotational evolution of neotethyan sutures around Ankara region, Middle East Technical University, Fen Bilimleri, Jeoloji, 2016

Postgraduate, Spektral analiz yöntemleriyle girişmiş cisim dalgalarının birbirinden ayırt edilmesi ve girişim özelliklerinin belirlenmesi, Karadeniz Technical University, Fen Bilimleri, Jeofizik, 2006

### Research Areas

Geophysical Engineering, Ground Physics, Space Magnetism, Geological Engineering, General Geology, Areal Geology (general, maps and charts), Tectonics (Paleotectonics, Neotectonics, Seismotectonics), Structural Geology, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2020 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2019 - 2020

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2016 - 2019

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Geological Engineering, 2007 - 2016

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

- I. **Geophysical and morphological constraints on active tectonics in the Eastern Pontides (Turkey)**  
Özkaptan T., Babacan A. E., Özkaptan M.  
Tectonophysics, vol.843, 2022 (SCI-Expanded)
- II. **Neogene restoration of geometry of the Neotethyan suture zone in Central Anatolia (Turkey)**  
ÖZKAPTAN M., Gülyüz E., KAYMAKCI N., Langereis C. G.  
INTERNATIONAL GEOLOGY REVIEW, vol.64, no.21, pp.2985-3004, 2022 (SCI-Expanded)
- III. **Deformation in SW Anatolia (Turkey) Documented by Anisotropy of Magnetic Susceptibility Data**  
Özkaptan M., Gülyüz E., Uzel B., Langereis C., Özacar A. A., Kaymakçı N.  
TECTONICS, vol.40, no.12, pp.1-26, 2021 (SCI-Expanded)
- IV. **New insights on the neogene tectonic evolution of the Aksu Basin (SE Turkey) from the Anisotropy of Magnetic Susceptibility (AMS) and paleostress data**  
Wasoo M. H., Özkaptan M., Koç A.  
Journal Of Structural Geology, vol.104137, pp.1-36, 2020 (SCI-Expanded)
- V. **Revealing the Deformation of SW Anatolia (Turkey) by Anisotropy of Magnetic Susceptibility (AMS) Data**  
Özkaptan M., Gülyüz E., Uzel B., Langereis C., Özacar A. A., Kaymakçı N.  
EARTH AND SPACE SCIENCE, vol.1, pp.1-35, 2020 (SCI-Expanded)
- VI. **Neogene Restoration of Geometry of the Neotethyan suture zone in Central Anatolia (Turkey)**  
Özkaptan M., Gülyüz E., Kaymakçı N., Langereis C.  
EARTH AND SPACE SCIENCE, vol.1, pp.1-30, 2020 (SCI-Expanded)
- VII. **Paleomagnetic constraints on the early Miocene closure of the southern Neo-Tethys (Van region; East Anatolia): Inferences for the timing of Eurasia-Arabia collision**  
Gülyüz E., Durak H., ÖZKAPTAN M., Krijgsman W.  
GLOBAL AND PLANETARY CHANGE, vol.185, 2020 (SCI-Expanded)
- VIII. **Crustal disequilibrium of the central Pontides (northern Turkey) due to oroclinal bending revealed by gravity modelling**  
ÖZKAPTAN M.  
JOURNAL OF ASIAN EARTH SCIENCES, vol.186, 2019 (SCI-Expanded)
- IX. **Kinematic and thermal evolution of the Haymana Basin, a fore-arc to foreland basin in Central Anatolia (Turkey)**  
Gülyüz E., ÖZKAPTAN M., KAYMAKCI N., Persano C., Stuart F. M.  
TECTONOPHYSICS, vol.766, pp.326-339, 2019 (SCI-Expanded)
- X. **Relationship between the anisotropy of magnetic susceptibility and development of the Haymana Anticline, Central Anatolia (Turkey)**  
ÖZKAPTAN M., Gülyüz E.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.28, no.1, pp.103-121, 2019 (SCI-Expanded)
- XI. **Age and kinematics of the Burdur Basin: Inferences for the existence of the Fethiye Burdur Fault Zone in SW Anatolia (Turkey)**  
ÖZKAPTAN M., KAYMAKCI N., Langereis C. G., Gülyüz E., ÖZACAR A. A., UZEL B., SÖZBİLİR H.  
TECTONOPHYSICS, vol.744, pp.256-274, 2018 (SCI-Expanded)
- XII. **Paleomagnetic evidence for upper plate response to a STEP fault, SW Anatolia**  
Kaymakçı N., Langereis C., ÖZKAPTAN M., Ozacar A. A., Gülyüz E., UZEL B., SÖZBİLİR H.  
EARTH AND PLANETARY SCIENCE LETTERS, vol.498, pp.101-115, 2018 (SCI-Expanded)
- XIII. **Paleomagnetic constraints on the timing and distribution of Cenozoic rotations in Central and Eastern Anatolia**  
Gurer D., van Hinsbergen D. J. J., ÖZKAPTAN M., Creton I., Koymans M. R., Cascella A., Langereis C. G.

SOLID EARTH, vol.9, no.2, pp.295-322, 2018 (SCI-Expanded)

- XIV. **Paleomagnetic constraints on the timing and distribution of Cenozoic rotations in Central and Eastern Anatolia**  
Gürer D., Van Hinsbergen D., Özkaptan M., Creaton I., Koymans M., Cascella A., Langereis C.  
Solid Earth, no.47, pp.1-47, 2017 (SCI-Expanded)
- XV. **Palaeomagnetic and geochronological evidence for a major middle Miocene unconformity in Söke Basin (western Anatolia) and its tectonic implications for the Aegean region**  
UZEL B., SÜMER Ö., ÖZKAPTAN M., ÖZKAYMAK Ç., Kuiper K., SÖZBİLİR H., KAYMAKCI N., İNCİ U., Langereis C. G.  
JOURNAL OF THE GEOLOGICAL SOCIETY, vol.174, no.4, pp.721-740, 2017 (SCI-Expanded)
- XVI. **Vertical-axis rotations accommodated along the Mid-Cycladic lineament on Paros Island in the extensional heart of the Aegean orocline (Greece)**  
Malandri C., Soukis K., Maffione M., özkaptan M., Vassilakis E., Lozios S., van Hinsbergen D. J.  
Lithosphere, vol.9, no.1, pp.78-99, 2017 (SCI-Expanded)
- XVII. **Age and paleoenvironmental reconstruction of partially remagnetized lacustrine sedimentary rocks (Oligocene Aktoprak basin, central Anatolia, Turkey)**  
MEIJERS M., STRAUSS B. E., Ozkaptan M., FEINBERG J. M., MULCH A., WHITNEY D. L., KAYMAKCI N.  
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, vol.17, no.3, pp.914-939, 2016 (SCI-Expanded)
- XVIII. **Reply to Karaoglu and Erkul's comment on: "Paleomagnetic evidence for an inverse rotation history of Western Anatolia during the exhumation of Menderes core complex"**  
Uzel B., Langereis C. G., KAYMAKCI N., Sozibilir H., Ozkaymak C., Ozkaptan M.  
EARTH AND PLANETARY SCIENCE LETTERS, vol.427, pp.312, 2015 (SCI-Expanded)
- XIX. **Paleomagnetic evidence for an inverse rotation history of Western Anatolia during the exhumation of Menderes core complex**  
Uzel B., Langereis C. G., KAYMAKCI N., Sozibilir H., Ozkaymak C., Ozkaptan M.  
EARTH AND PLANETARY SCIENCE LETTERS, vol.414, pp.108-125, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Modeling of Central Anatolian (Ankara and vicinity) Basins with Gravity and Magnetic Methods**  
ÖZKAPTAN M.  
TURKIYE JEOLOJİ BULTENİ-GEOLOGICAL BULLETIN OF TURKEY, vol.62, no.2, pp.141-165, 2019 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Preliminary Paleomagnetic Data from the Interaction Area of North Anatolian and İzmir-Balıkesir Transfer Zones**  
UZEL B., TOSUN L., ÇAKIR E., ÖZKAPTAN M., SÜMER Ö., LANGEREIS C., KAYMAKCI N.  
International Earth Science Colloquium on the Aegean Region IESCA 2019, İzmir, Turkey, 7 - 11 October 2019, pp.105
- II. **PALEOMAGNETISM IN TURKEY: PAST, PRESENT AND FUTURE**  
LANGEREIS C., KAYMAKCI N., UZEL B., ÖZKAPTAN M., Ertepinar P., KOÇ A., Meijers M.  
72th Geological Congress of Turkey, Ankara, Turkey, 28 January - 01 February 2019
- III. **RELATIONSHIP BETWEEN SHORTENING RATIO CALCULATIONS ON FOLDED SEQUENCES AND ANISOTROPY OF MAGNETIC SUSCEPTIBILITY (AMS): A CASE STUDY FROM THE HAYMANA BASIN, CENTRAL ANATOLIA, TURKEY**  
GÜLYÜZ E., ÖZKAPTAN M.  
71th Geological Congress of Turkey, Ankara, Turkey, 23 - 27 April 2018
- IV. **Aksu-Dinar Fault System: Its bearing on the evolution of the Isparta Angle (SW Turkey)**  
KAYMAKCI N., ÖZACAR A. A., Langereis C., ÖZKAPTAN M., GÜLYÜZ E., van Hinsbergen D., UZEL B., McPhee P.,

SÖZBİLİR H.

EGU General Assembly 2017, 23 - 28 April 2017

- V. **Determination of Principal Strain Directions by Evaluating to Anisotropy of Magnetic Susceptibility Results from Neogene Sedimentary Rocks around Central Anatolian Basins**  
ÖZKAPTAN M., GÜLYÜZ E., KAYMAKCI N., langereis C.  
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY GEOSCIENCES 2017, Çanakkale, Turkey, 18 November 2017 - 21 January 2018
- VI. **İzmir-Balıkesir Transfer Zonu ile Kuzey Anadolu Fay Zonu'nun Jeodinamik İlişkinine Dair Yeni Yaklaşımlar**  
UZEL B., SÖZBİLİR H., KAYMAKCI N., SÜMER Ö., ÖZKAPTAN M., ÖZKAYMAK Ç., LANGEREİS C. G.  
Aktif Tektonik Araştırma Grubu 21. Çalıştayı, Afyonkarahisar, Turkey, 26 - 28 October 2017, pp.18
- VII. **Tectono-Stratigraphic Evolution of the Haymana Basin (Central Anatolia, Turkey): Inferences for European-African Convergence along Neotethys Ocean**  
GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N.  
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY GEOSCIENCES 2017, Çanakkale, Turkey, 18 - 21 October 2017
- VIII. **Analysis of Neotectonic Crustal Deformation in the Anatolia: Synthesis of Previous Paleomagnetic Results and Comparing to the Other Short Term Kinematic Methods**  
ÖZKAPTAN M., GÜLYÜZ E.  
INTERNATIONAL SYMPOSIUM ON GIS APPLICATIONS IN GEOGRAPHY GEOSCIENCES 2017, Çanakkale, Turkey, 18 - 21 October 2017
- IX. **Preliminary Thermo-Chronometric and Paleo-Magnetic Results from the Western MArgin of the Kırşehir Block: İmplications for Timing of Continental Collisions Along Neo-Tethyna Suture Zones (Central Anatolia, Turkey)**  
GÜLYÜZ E., ÖZKAPTAN M., langereis C., KAYMAKCI N.  
EGU 2017, Viyana, Austria, 23 - 28 April 2017
- X. **Fethiye-Burdur Fault Zone (SW Turkey): a Myth?**  
KAYMAKCI N., langereis C., ÖZKAPTAN M., ÖZACAR A. A., GÜLYÜZ E., UZEL B.  
EGU 2017, Viyana, Austria, 23 - 28 April 2017
- XI. **Evolution of seismically active İzmir-Balıkesir Transfer Zone: A reactivated and deep-seated structure since the Miocene**  
UZEL B., SÖZBİLİR H., KAYMAKCI N., ÖZKAYMAK Ç., ÖZKAPTAN M., AY S., LANGEREİS C. G.  
European Geosciences Union General Assembly 2017, Vienna, Austria, 23 - 28 April 2017
- XII. **DEFORMATION AND LOW-TEMPERATURE THERMAL HISTORY OF THE HAYMANA BASIN (CENTRAL ANATOLIA, TURKEY): STRUCTURAL AND THERMAL RECORDS OF NEOTETHYAN CLOSURE DURING THE LATE CRETACEOUS TO NEOGENE**  
GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N.  
TJK 2017, Ankara, Turkey, 10 - 14 April 2017
- XIII. **Paleomagnetic reconstruction of the Neotethyan Suture in Central Anatolia Turkey**  
ÖZKAPTAN M., GÜLYÜZ E., KAYMAKCI N., langereis C.  
AGU FALL MEETING 2016, San-Francisco, Costa Rica, 12 - 15 December 2016
- XIV. **Paleomagnetic reconstruction of the Neotethyan Suture in Central Anatolia (TURKEY)**  
ÖZKAPTAN M., Gülyüz E., Kaymakçı N., Langereis C.  
American Geophysical Union Fall Meeting 2016, San Francisco, United States Of America, 12 - 16 December 2016, vol.23, no.2, pp.123
- XV. **ORTA ANADOLUNUN BATISINDA NEOTETİS İN KAPANIMKARAKTERİSTİKLERİ HAYMANA HAVZASINDANSTRATİGRAFİK KİNEMATİK VE TERMO KRONOMETRİKSONUÇLAR**  
GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N., PERSANO C., STUART F.  
68. TÜRKİYE JEOLojİ KURULTAYI, Ankara, Turkey, 6 - 10 April 2015
- XVI. **Kinematics and evolution of Neotethyan suture around Haymana Basin in north central Turkey: Integration of fault slip, paleomagnetic and thermochronological data**

- GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N., LANGEREIS C., Persano C., Stuart F.  
DARIUS PROGRAMME 2014, France, 8 - 10 December 2014
- XVII. **Thermo-Chronometric Characteristics and Evolution of the Haymana Basin, Central Anatolia (Turkey)**  
GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N., Stuart F., Persano C.  
The 8th International Symposium on Eastern Mediterranean Geology, Muğla, Turkey, 13 - 17 October 2014
- XVIII. **Fethiye–Burdur fault zone: a myth**  
KAYMAKCI N., ÖZACAR A. A., ÖZKAPTAN M., KOÇ A., GÜLYÜZ E., LEFEBVRE C., UZEL B., LANGEREIS C., SÖZBİLİR H.  
The 8th International Symposium on Eastern Mediterranean Geology (ISEMG-8), Muğla, Turkey, 13 - 17 October 2014, pp.54
- XIX. **Kinematics of Izmir-Balikesir-Transfer Zone and the west Anatolian rotational history during the exhumation of the Menderes metamorphic core complex**  
UZEL B., LANGEREIS C., KAYMAKCI N., SÖZBİLİR H., ÖZKAYMAK Ç., ÖZKAPTAN M.  
European Geosciences Union General Assembly 2014, Viyana, Austria, 27 April - 02 May 2014
- XX. **Kinematics of SW Anatolia implications on crustal deformation above slab tear.**  
ÖZKAPTAN M., KOÇ A., LEFEBVRE C., GÜLYÜZ E., UZEL B., KAYMAKCI N., LANGEREIS C., ÖZACAR A. A., SÖZBİLİR H.  
EGU General Assembly, Vienna, Austria, 27 April - 02 May 2014, vol.16
- XXI. **Evolution of Central Anatolian Basins Unravelling subduction and collision history of Neotethys in Turkey: Preliminary results on Haymana Basin**  
GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N.  
TSG Annual Meeting – 2014, İSKOÇYA, 6 - 08 January 2014
- XXII. **İZMİR BALIKESİR TRANSFER ZONU'NUN NEOTEKTONİĞİ**  
UZEL B., SÖZBİLİR H., ÖZKAYMAK Ç., KAYMAKCI N., LANGEREIS C., ÖZKAPTAN M.  
ATAG 17 Aktif Tektonik Araştırma Grubu Çalıştayı, Antalya, Turkey, 24 - 26 October 2013
- XXIII. **EVOLUTION OF CENTRAL ANATOLIAN BASINS UNRAVELLING SUBDUCTION AND COLLISION HISTORY OF NEOTETHYS IN TURKEY: PRELIMINARY RESULTS ON HAYMANA BASIN**  
GÜLYÜZ E., ÖZKAPTAN M., KAYMAKCI N.  
65. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 2 - 06 April 2012
- XXIV. **Determination of the delay times between two or more interfered body wave trains using by spectral techniques.**  
ÖZKAPTAN M., GÖKALP H.  
Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia Conference being held in , METU (Middle East Technical University) Ankara, Turkey, 4 - 08 October 2010
- XXV. **Transfer Zonlarının Jeolojik Evrimi ve Bu Zonların Batı Anadolu'daki K-G Genişleme Tektoniğine Katkısı: İzmir-Balıkesir Transfer Zonu**  
SÖZBİLİR H., KAYMAKCI N., LANGEREIS C., UZEL B., ÖZKAYMAK Ç., ÖZKAPTAN M., GÜLYÜZ E.  
ATAG 13 Aktif Tektonik Araştırma Grubu 13. Çalıştayı, Çanakkale, Turkey, 8 - 10 October 2009
- XXVI. **DETECTION OF DELAY TIMES IN INTERFERED BODY WAVES and APPLICATIONS**  
ÖZKAPTAN M., GÖKALP H.  
17th INTERNATIONAL GEOPHYSICAL CONGRESS EXHIBITION, Ankara, Turkey, 14 - 17 November 2006

## Supported Projects

ÖZKAPTAN M., KARSLI H., BABACAN A. E., KIRANDI B., Project Supported by Higher Education Institutions, Trabzon Havalimanı tabanı sığ denizel yapılarının araştırılması, 2024 - Continues

ÖZKAPTAN M., BABACAN A. E., KARAHAN M., SÜNNETÇİ M. O., MEYDAN A. F., Project Supported by Higher Education Institutions, Doğu Karadeniz Bölgesinin son buzul çağından günümüze iklimsel, depremsellik ve paleomanyetik değişiminin göl ve denizel sediman karotlarından belirlenmesi, 2024 - Continues

Özkaptan M., Krijgsman W., TUBITAK Project, Paleomagnetism of Horseshoe Island: Revealing Tectonic and Paleointensity Variations, Marguerite Bay, Antarctica, 2023 - 2025

Özkaptan M., Meydan A. F., Gülyüz E., Özdemir Y., Krijgsman W., Anselmetti F., TUBITAK Project, The Last Hundred

Millennial 3D Paleomagnetic History of Eastern Anatolia: Geomagnetic and Climatic Implications from Lakes and Volcanic Records, 2021 - 2024

ÇALIŞKAN AKGÜL H., ÖZKAPTAN M., DEMİREL S., KILIÇ S., SARALIOĞLU E., YILMAZ E., TÜRK M., ODABAŞ U., Project Supported by Higher Education Institutions, Trabzon'un Tarih Öncesi Dönem Araştırmaları (Maçka-Akçaabat-Düzköy), 2020 - 2024

Özkaptan M., Kim S., Çukur D., Yoo S., Lim H., Meydan A. F., Vardar D., Universities of Other Countries Supported Project, A Study on Earthquake-induced Hazard Potential Assessment by Tracking Subaqueous Failures in Lake Van (Türkiye) , 2023 - 2023

Uzel B., Özkaptan M., Kaymakçı N., Sümer Ö., Koralay O. E., TUBITAK Project, İzmir-Balıkesir Transfer Zonu ile Kuzey Anadolu Fay Zonu'nun Jeodinamik İlişkisi, 2018 - 2022

BABACAN A. E., ÖZKAPTAN M., ÖZKAPTAN T., Project Supported by Higher Education Institutions, Doğu Pontidlerde Hava ve Yer Manyetik Anomali Değişimlerinin Analiz Edilerek Derin ve Sığ Jeolojik Yapılar ile İlişkilendirilmesi, 2020 - 2021

ÖZKAPTAN M., Other International Funding Programs, Magnetostratigraphy of Late Cretaceous - Eocene formations of Haymana Basin, 2018 - 2019

ÖZKAPTAN M., KRİJGSMAN W., CASCELLA A., GÜRER D., GENÇOĞLU A., GÜLYÜZ E., Project Supported by Higher Education Institutions, Sivas-Erzincan Havzası doğu kenarında depolanmış olan Miyosen yaşlı denizel tortul istiflerin paleomanyetik stratigrafik ve yapısal yönden incelenmesi, 2017 - 2019

Özkaptan M., Gülyüz E., TUBITAK Project, Paleomanyetik (Manyetostratigrafi) Yöntemler ile Van Bölgesi En Genç Denizel Biriminin (Van Formasyonu) Yüksek Çözünürlükte Yaşlandırılması: Arap-Anadolu Plakaları Arası Gerçekleşen Kıtasal Çarpışmanın Zamanlaması Hakkında Çıkarımlar, 2017 - 2019

Özkaptan M., Whitney ., Other International Funding Programs, Central Anatolian Tectonics (CD-CAT): Surface to mantle dynamics during collision to escape, 2011 - 2019

ÖZKAPTAN M., Project Supported by Other Official Institutions, Kurutlu Antropolojik Kazısı, 2018 - 2018

ÖZKAPTAN M., Project Supported by Other Official Institutions, İç Anadolu Miyosen Dönemi Omurgalı Fosil Kazısı, 2017 - 2017

TUBITAK Project, Güney Batı Anadolu'nun Aktif Tektoniği ve Geç Senozoyik Evrimi, 2012 - 2015

TUBITAK Project, Transfer Zonlarının Jeolojik Evrimi ve Bu Zonların Batı Anadolu'daki K-G Genişleme Tektoniğine Katkısı, 2009 - 2012

## Metrics

Publication: 47

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Citation (Scopus): 206

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H-Index (Scopus): 9