

Assoc. Prof. ALİ ELMAS

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-5215-2020

ScopusID: 57220586019

Yoksis Researcher ID: 53642

Education

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Jeofizik, Turkey 2007 - 2012

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Jeofizik, Turkey 2004 - 2007

Undergraduate, Karadeniz Technical University, Jeofizik Mühendisliği Bölümü, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Tübitak Proje Hazırlama Kursu, KTÜ, 2015

Education Management and Planning, Doktora Staj Kursu, Comenius University, 2012

Dissertations

Doctorate, 3B GRAVİTE TERS ÇÖZÜM HESAPLARINDA SİSMİK HIZ SINIRLARININ KULLANILMASIYLA YOĞUNLUĞUN DERİNLİKLE DEĞİŞİMİNİN TESPİTİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Jeofizik, 2012

Postgraduate, GRAVİTE YÖNTEMİNDE İKİ BOYUTLU SENTETİK MODELİN ÜÇ BOYUTLU TASARIMIYLA TESTİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Jeofizik, 2007

Research Areas

Geophysical Engineering, Applied Geophysics, Gravity, Engineering and Technology

Academic Positions

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2019 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2015 - 2019
Expert, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2006 - 2015

Academic and Administrative Experience

Deputy Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2021 - 2023
Deputy Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Jeofizik Mühendisliği, 2015 - 2018

Courses

Doctorate

Gravimetri, Doctorate, 2019 - 2020
Gravite Modelleme, Doctorate, 2018 - 2019

Undergraduate

Sayısal Çözümleme, Undergraduate, 2020 - 2021
Gravite Manyetik Prospeksiyon, Undergraduate, 2016 - 2017
Olasılık ve İstatistik, Undergraduate, 2016 - 2017
Jeofizik Yorumlama, Undergraduate, 2016 - 2017

Supervised Theses

Elmas A., Marmara Denizi Baseninin Tektonik ve Kabuk Yapısının WGM2012 Gravite Verileri Yardımıyla Belirlenmesi, Doctorate, A.Yasir(Student), 2023
Elmas A., Thesis, Postgraduate, A.Yasir(Student), 2017

Jury Memberships

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, May, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Karadeniz Teknik Üniversitesi, June, 2021

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Integrating gravity data to enhance understanding of northern Türkiye's geodynamic evolution**
ELMAS A.
ACTA GEOPHYSICA, 2025 (SCI-Expanded)
- II. **Architecture of tectonic and crustal structure of the middle marmara sub-basin and its surroundings using gravity data**
Parlak A. Y., ELMAS A.
CARBONATES AND EVAPORITES, vol.38, no.1, 2023 (SCI-Expanded)
- III. **Sediment thickness of the Tuz Gölü Basin using gravity data**
Elmas A.
CARBONATES AND EVAPORITES, vol.37, no.36, pp.1-9, 2022 (SCI-Expanded)
- IV. **Determination of tectonic and crustal structure of Bitlis-Poturge Suture Zone using WGM2012 complete Bouguer anomaly data**
ELMAS A.
ACTA GEODAETICA ET GEOPHYSICA, vol.57, no.1, pp.215-229, 2022 (SCI-Expanded)

- V. **Major tectonic features and geodynamic setting of the Black Sea Basin: Evidence from satellite-derived gravity, heat flow, and seismological data**
Maden N., Elmas A.
Tectonophysics, vol.824, no.1, pp.1-16, 2022 (SCI-Expanded)
- VI. **Mineralized structure prospection with depth estimation using magnetic data**
ELMAS A.
CARBONATES AND EVAPORITES, vol.36, no.4, 2021 (SCI-Expanded)
- VII. **Tectonic and crustal structure of the Eastern Pontides using Bouguer gravity data**
ELMAS A.
ACTA GEOPHYSICA, vol.69, no.5, pp.1637-1650, 2021 (SCI-Expanded)
- VIII. **Tectonic and crustal structure of Archangelsky ridge using Bouguer gravity data**
ELMAS A., KARSLI H.
MARINE GEOPHYSICAL RESEARCH, vol.42, no.3, 2021 (SCI-Expanded)
- IX. **Edge position detection and depth estimation from gravity data with application to mineral exploration**
ELMAS A.
CARBONATES AND EVAPORITES, vol.34, no.1, pp.189-196, 2019 (SCI-Expanded)
- X. **Lineaments in the Shamakhy-Gobustan and Absheron hydrocarbon containing areas using gravity data**
ELMAS A., KARSLI H., Kadirov F. A.
ACTA GEOPHYSICA, vol.66, no.1, pp.39-49, 2018 (SCI-Expanded)
- XI. **Determining change of density with depth by using seismic velocity boundaries in 2D gravity inversion calculations**
Cavsak H., ELMAS A.
CARBONATES AND EVAPORITES, vol.30, no.2, pp.145-151, 2015 (SCI-Expanded)
- XII. **Gold and Silver Prospection Using Magnetic, Radiometry and Microgravity Methods in the Kisladag Province of Western Turkey**
Ercan O. A., ŞEREN A., ELMAS A.
RESOURCE GEOLOGY, vol.64, no.1, pp.25-34, 2014 (SCI-Expanded)
- XIII. **Determining change of density with depth by using seismic velocity boundaries in 3D gravity inversion calculations**
Cavsak H., ELMAS A.
ACTA GEODAETICA ET GEOPHYSICA, vol.48, no.4, pp.405-417, 2013 (SCI-Expanded)
- XIV. **Determining crustal structure and density in the eastern Black Sea and Pontide Mountains using 3D gravity model calculations**
Cavsak H., ELMAS A.
CARBONATES AND EVAPORITES, vol.28, no.4, pp.475-484, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Bouguer gravite verileriyle Marmara Bölgesi'nde sığ kabuk yapısı araştırması**
Elmas A.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.24, no.70, pp.1-6, 2022 (Peer-Reviewed Journal)
- II. **Van Gölü ve Civarının Sığ Kabuk Yapısının WGM2012 Bouguer Gravite Verileriyle İncelenmesi**
Elmas A.
Jeoloji Mühendisliği Dergisi, vol.46, no.1, pp.41-50, 2022 (Peer-Reviewed Journal)
- III. **Modelling of Crust Structure of Central Anatolia Region**
Elmas A.
Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.15, no.1, pp.486-497, 2021 (Peer-Reviewed Journal)

- IV. **Investigation of lineaments in the mid-Black arc region using Bouguer gravity data**
Parlak A. Y., Elmas A.
Jeoloji Mühendisliği Dergisi , vol.45, no.1, pp.199-212, 2021 (Scopus)
- V. **Gravite düşey türev verileriyle Batı Karadeniz Bölgesinin yapı sınırlarının araştırılması**
Elmas A., Parlak A. Y.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.9, no.4, pp.1072-1079, 2021 (Peer-Reviewed Journal)
- VI. **Manyetik özellik gösteren gömülü bir cismin Sınır Analizi ve NTG Yöntemleriyle konumunun belirlenmesi**
Elmas A., Babacan A. E.
Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.8, pp.196-202, 2021 (Peer-Reviewed Journal)
- VII. **Kıbrıs Adasındaki Yapısal Süreksizliklerin EGM08 Gravite Verileri Kullanılarak Belirlenmesi**
ELMAS A.
Jeoloji Mühendisliği Dergisi, vol.42, pp.17-32, 2018 (Scopus)
- VIII. **Türkiye'nin Tektonik Yapısının Gravite Verileri Kullanılarak Değerlendirilmesi**
ELMAS A.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.6, no.2, pp.258-264, 2018 (Peer-Reviewed Journal)
- IX. **Trabzon Civarındaki Fay Türü Jeolojik Yapıların Gravite Verileri Kullanılarak Belirlenmesi**
ELMAS A.
Jeoloji Mühendisliği Dergisi, vol.41, pp.137-153, 2017 (Scopus)
- X. **A new method for determining lower density layer in prospection of hydrocarbon**
ELMAS A., CAVSAK H.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.3, pp.233-240, 2016 (ESCI)
- XI. **Comparing of the 2D-3D Gravity Calculations in Cartesian Coordinates and 3D in Cartesian-Spherical Coordinates**
ÇAVŞAK H., ELMAS A.
SDÜ Journal of Engineering Science and Design, vol.2, no.2, pp.103-111, 2014 (Peer-Reviewed Journal)
- XII. **CRUST STUDYING IN THE EASTERN PONTIDES BY 3D GRAVITY ALGORIHM**
ÇAVŞAK H., ELMAS A.
e-Journal of New World Sciences Academy, vol.6, no.3, 2011 (Peer-Reviewed Journal)
- XIII. **3D Modeling Of Gravity Anomalies Using 2D Synthetic Models**
ÇAVŞAK H., ELMAS A.
SDÜ Journal of Engineering Science and Design, vol.1, no.2, pp.79-86, 2010 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Batı Karadeniz Bölgesinin jeolojik birimlerinin araştırılma**
Elmas A., Parlak A. Y.
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), 15 - 17 December 2021, pp.173-176, (Full Text)
- II. **Gravite verileriyle Archangelsky Sirtının temel kaya üst yüzeyinin belirlenmesi**
Elmas A., Karşlı H.
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), 15 - 17 December 2021, pp.177-181, (Full Text)
- III. **Bouguer gravite verileriyle Marmara Denizi tabanında NTG Yöntemiyle temel kaya seviyesi araştırması**
Parlak A. Y., Elmas A.
6.Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, 20 November - 21 December 2021, pp.532-536, (Full Text)
- IV. **Bouguer gravite verileriyle Marmara Bölgesi'nde temel kaya incelemesi**

Elmas A.

6.Uluslararası Mühendislik ve Teknoloji Yönetimi Kongresi, İstanbul, Turkey, 20 - 21 November 2021, pp.542-546,
(Full Text)

V. Gömülü Olan Manyetik Bir Cismin NTG Yöntemiyle Belirlenmesi

ELMAS A., BABACAN A. E.

6.ULUSLARARASI MÜHENDİSLİK VE TEKNOLOJİ YÖNETİMİ KONGRESİ, Turkey, 20 November 2021, pp.537-541,
(Full Text)

VI. Tuz Gölü ve civarının sediment kalınlığının gravite yöntemiyle araştırılması

Elmas A.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27
October 2021, pp.74-76, (Full Text)

VII. Gravite Verilerinin Normalize Tam Gradyent Yöntemiyle İşlenmesinde Profil Uzunluğu Etkisi

Elmas A.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27
October 2021, pp.77-78, (Full Text)

VIII. Finding new edges of the units the mid-Black Sea region using EGM08 Bouguer gravity data

Parlak A. Y., Elmas A.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27
October 2021, pp.1-5, (Full Text)

IX. Calculating of the basement of Eastern Pontides using Bouguer Gravity Data by NFG and inversion techniques

Elmas A.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 November - 03
December 2021, pp.126-128, (Full Text)

X. Modelling of Interface Topographies of the Central Anatolia Region

Elmas A.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021,
pp.129-131, (Full Text)

XI. Bouguer gravite verileriyle Ankara ili ve civarındaki süreksizliklerin araştırılması

Elmas A.

1st International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 1 - 03 November 2021,
pp.132-135, (Full Text)

XII. Tectonic Structure of Bitlis-Pötürge Suture Zone Using Gravity Data

Elmas A.

9th International Advanced Technologies Symposium (IATS'21), Elazığ, Turkey, 27 - 28 October 2021, pp.63-66,
(Full Text)

XIII. Mineralized Structure Surveying using RTP Magnetic Data

Elmas A.

9th International Advanced Technologies Symposium (IATS'21), Elazığ, Turkey, 27 - 28 October 2021, pp.67-70,
(Full Text)

XIV. Bursa ili ve civarındaki süreksizliklerin gravite verileriyle araştırılması

Elmas A.

9th International Advanced Technologies Symposium (IATS'21), Elazığ, Turkey, 27 - 28 October 2021, pp.71-74,
(Full Text)

XV. Estimation of Tectonic Structure of Eastern Anatolia Region using Gravity Data

ELMAS A.

2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018,
(Full Text)

XVI. Determination of Updated Tectonic Structure of Turkey Utilizing Gravity Data

ELMAS A.

2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018,

- (Full Text)
- XVII. **Gravity Anomalies on Continental Edgings**
ELMAS A.
2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018,
(Full Text)
- XVIII. **Determining of Lineaments in the Shamakhy-Gobustan and Absheron Areas Using Gravity Data**
ELMAS A., KARSLI H.
9th International Symposium on Eastern Mediterranean Geology (ISEMG-2018), 7 - 11 May 2018, pp.213-216,
(Full Text)
- XIX. **Surveying of Tectonic Structure in the Eastern Pontides region. International Symposium on Eastern Mediterranean Geology**
ELMAS A.
9th International Symposium on Eastern Mediterranean Geology, 7 - 11 May 2018, (Full Text)
- XX. **INVESTIGATION OF GEOTHERMAL SOURCES BY USING GRAVITY AND ELECTRIC RESISTIVITY METHODS**
ELMAS A., BABACAN A. E., Kara R. T.
9th International Symposium on Eastern Mediterranean Geology (ISEMG 2018), Antalya, Turkey, 7 - 11 May 2018,
pp.189-193, (Full Text)
- XXI. **Trabzondaki çizgiselliklerin Gravite Verileri Kullanılarak Belirlenmesi**
ELMAS A.
International Conference on Technology, Engineering and Science (ICONTEs 2017), 10 - 19 October 2017, (Full Text)
- XXII. **Kıbrıs Süreksizliklerinin Gravite Verileriyle Araştırılması**
ELMAS A.
International Conference on Technology, Engineering and Science (ICONTEs 2017), 26 - 29 October 2017, (Full Text)
- XXIII. **EXPLORATION OF IRON ORE DEPOSIT IN ELBISTAN OF SOUTHERN TURKEY, USING MAGNETIC DATA**
Kara R. T., ELMAS A., BABACAN A. E.
International Conference on Education in Mathematics, Science Technology, 18 - 21 May 2017, pp.334-337, (Full Text)
- XXIV. **Geothermal Source Research With Gravity and Electricity Methods. International Conference on Research in Education and Science**
ELMAS A.
International Conference on Research in Education and Science (ICRES 2017), 18 - 21 May 2017, (Full Text)
- XXV. **Exploration of Iron Ore Deposit in Elbistan of Southern Turkey, Using Magnetic Data**
RASİM TAYLAN K., ELMAS A., BABACAN A. E.
International Conference on Research in Education and Science, 18 - 21 May 2017, pp.334-337, (Full Text)
- XXVI. **Mineralized Structure Prospection using HGM and TAM Techniques with Magnetic Data in Gaziantep Southern Turkey**
ELMAS A.
22nd European Meeting of Environmental and Engineering Geophysics, 4 - 08 September 2016, (Summary Text)
- XXVII. **IMAGING OF NEAR SURFACE BURIED STRUCTURES USING MAGNETIC AND ELECTROMAGNETIC METHODS**
BABACAN A. E., ELMAS A.
International Conference on Research in Education and Science (ICRES), May 19-22, 2016, Bodrum, Turkey, 19 - 22 May 2016, (Full Text)
- XXVIII. **Shallow Crust Study with Gravity Data using HGM and TAM Techniques in Gaziantep Southern Turkey**
ELMAS A.
International Conference on Research in Education and Science, 19 - 22 May 2016, pp.1031-1034, (Full Text)
- XXIX. **Determination of Properties of Margins using Free Air and Bouguer Anomalies**

- ELMAS A.
International Conference on Research in Education and Science, 19 - 22 May 2016, pp.954-959, (Full Text)
- XXX. **Gold Prospection Using Magnetic, VLF and SP Methods in the Kışladağ Province of Western Turkey**
ERCAN Ö. A., ŞEREN A., ELMAS A.
International Conference on Research in Education and Science, 23 - 26 April 2015, pp.64-70, (Full Text)
- XXXI. **2B Gravite Ters Çözüm Hesabında Sismik Hız Sınırlarıyla Yoğunluk Değişimi Çalışması**
ÇAVŞAK H., ELMAS A.
Türkiye 20. Uluslararası Jeofizik Kongre ve Sergisi, Antalya, Turkey, 24 - 28 November 2013, vol.CD, pp.130-133, (Full Text)
- XXXII. **Determining Change of Density with Depth by Using Seismic Velocity Boundaries in 3D Gravity Inversion Calculations**
ÇAVŞAK H., ELMAS A.
6th Congress of Balkan Geophysical Society, Budapest, Budapeşte, Hungary, 13 - 16 June 2011, vol.CD, (Full Text)
- XXXIII. **2B Gravite İnversiyon Hesaplarında Sismik Hız Sınırlarının Kullanılması**
ÇAVŞAK H., ELMAS A.
Türkiye 19. Uluslararası Jeofizik Kongre ve Sergisi, Ankara, Turkey, 23 - 26 November 2010, vol.CD, (Full Text)
- XXXIV. **Yedi Profil Altında 3B Gravite Hesaplarıyla Doğu Ponditlerde Kabuk Yapısı Çalışması**
ÇAVŞAK H., ELMAS A.
Bilimde Modern Yöntemler Sempozyumu, Diyarbakır, Turkey, 10 - 13 May 2010, vol.CD, pp.629-642, (Full Text)
- XXXV. **Comparing of The 2D-3D Gravity Calculations in Cartesian Coordinates and 3D in Cartesian-Spherical Coordinates**
ÇAVŞAK H., ELMAS A.
The 4th Saint Petersburg International Conference & Exhibition, Saint Petersburg, Russia, Petersburg, Russia, 12 - 15 April 2010, vol.CD, (Full Text)
- XXXVI. **2D Synthetic Models are tested with their 3D planning in gravity method**
ÇAVŞAK H., ELMAS A.
International Symposium on Engineering and Architectural Sciences of Balkan, Caucasus and Turkic Republics Conference, Isparta, Turkey, 21 - 24 October 2009, vol.1, pp.254-260, (Full Text)
- XXXVII. **3D Modeling Of Gravity Anomalies Using 2D Synthetic Models**
ÇAVŞAK H., ELMAS A.
International Symposium on Engineering and Architectural Sciences of Balkan, Caucasus and Turkic Republics Conference, 10 - 13 February 2009, vol.1, pp.254-260, (Full Text)
- XXXVIII. **Doğu Karadeniz Ve Ponditlerdeki Kabuk ve Üst Mantonun Üç Boyutlu Olarak Modellenerek, Gravite İnversiyon Hesaplarıyla Kabuk Yapısı ve Ortalama Kabuk Yoğunluğunun Tesbiti**
ÇAVŞAK H., ELMAS A.
Bilimde Modern Yöntemler Sempozyumu, Eskişehir, Turkey, 20 - 23 May 2008, vol.2, pp.1083-1090, (Full Text)

Funded Projects

ELMAS A., PARLAK A. Y., Project Supported by Higher Education Institutions, Marmara Denizi Baseninin Tektonik ve Kabuk Yapısının WGM2012Gravite Verileri Yardımıyla Belirlenmesi, 2021 - 2023

ŞEREN A., BABACAN A. E., ELMAS A., ŞENKAYA M., ALEMDAĞ H., Project Supported by Higher Education Institutions, 8 Yer Elektrik Çalıştay, 2019 - 2020

Elmas A., Çavşak H., Project Supported by Higher Education Institutions, Bilimsel Araştırma Projesi 2, 2010 - 2011

Elmas A., Çavşak H., Project Supported by Higher Education Institutions, Bilimsel Araştırma Projesi 1, 2006 - 2008

Peer Reviews in Scientific Publications

Petroleum Research, Journal Indexed in ESCI, June 2024

Acta Geophysica, SCI Journal, May 2024

RESULTS IN MATERIALS, Journal Indexed in ESCI, March 2024

MEASUREMENT SCIENCE AND TECHNOLOGY, Journal Indexed in SSCI, February 2024

JOURNAL OF ASIAN EARTH SCIENCES, Journal Indexed in SSCI, July 2023

Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, June 2021

Metrics

Publication: 65

Citation (WoS): 39

Citation (Scopus): 44

H-Index (WoS): 4

H-Index (Scopus): 4

Non Academic Experience

TPAO/ANKARA, Proje Yardımcısı

Comenius University-Bratislava/SLOVAKIA, Erasmus Doktora Stajı