

## Res. Asst. PhD EFE AKKAŞ

### Personal Information

**Office Phone:** [+90 312 780 7767](tel:+903127807767)

**Email:** [akkasefe@hacettepe.edu.tr](mailto:akkasefe@hacettepe.edu.tr)

**Web:** <https://avesis.hacettepe.edu.tr/akkasefe>

### International Researcher IDs

ScholarID: xVDWfYIAAAAJ

ORCID: 0000-0001-6837-3792

Publons / Web Of Science ResearcherID: G-5967-2013

ScopusID: 56582139300

Yoksis Researcher ID: 102056

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği A.B.D., Turkey 2015 - 2022

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği A.B.D., Turkey 2012 - 2015

Undergraduate, Ankara University, Mühendislik Fakültesi, Jeoloji Mühendisliği, Turkey 2005 - 2011

### Foreign Languages

English, B1 Intermediate

### Dissertations

Doctorate, PETROLOGICAL CORRELATION OF MIO-PLIOCENE VOLCANIC PRODUCTS AT SULTANSAZLIĞI (KAYSERİ) BASIN MARGINS, Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği A.B.D., 2022

Postgraduate, PETROLOGICAL INVESTIGATION OF MAGMATIC XENOLITHS OBSERVED IN HYDROVOLCANIC DEPOSITS OF QUATERNARY GÖLCÜK VOLCANISM (ISPARTA), Hacettepe University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (YI) (Tezli), 2015

### Research Areas

Geological Engineering, Mineralogy-petrography, Mineralogy and Crystallography, Petrography and Petrology, Engineering and Technology

### Academic Titles / Tasks

Research Assistant PhD, Hacettepe University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2012 - Continues

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

- I. **Reconstructing the Belbashani Pumice Plinian eruption, Hasandag Volcano, Turkey**  
Ozsoy R., Sunye-Puchol I., Pedrazzi D., AKKAŞ E., Costa A., Massaro S., Tavazzani L., Nazzari M., Bachmann O., Scarlato P., et al.  
BULLETIN OF VOLCANOLOGY, no.7, 2024 (SCI-Expanded)
- II. **Hydrothermal fluid circulation within the restless structural frame of Hasandağ volcanic system (Central Anatolia, Türkiye) inferred from Self-potential, CO<sub>2</sub>, and temperature measurements**  
DİKER C., ULUSOY İ., AKKAŞ E., ŞEN E., Aydın E., Gümüş E., Erkut V., ÇUBUKÇU H. E., Başar O., Çolak M., et al.  
Journal of Volcanology and Geothermal Research, vol.446, 2024 (SCI-Expanded)
- III. **Magmatic differentiation within the transcrustal magma reservoir of Develidağ volcano, Central Anatolia (Turkey)**  
AKKAŞ E., ÇUBUKÇU H. E.  
Journal of Asian Earth Sciences, vol.252, 2023 (SCI-Expanded)
- IV. **The emission of natural harmful particulate matters by wind erosion and possible impact areas, Cappadocia province, Central Anatolia, Turkey**  
AYDAR E., AKKAŞ E.  
BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol.81, no.1, 2022 (SCI-Expanded)
- V. **A micro-computed tomographic assessment of root canal preparation with conventional and different rotary files in primary teeth and young permanent teeth**  
ESENTÜRK G., AKKAŞ E., Cubukcu E., Nagas E., Uyanik O., ÇEHRELİ Z. C.  
INTERNATIONAL JOURNAL OF PAEDIATRIC DENTISTRY, vol.30, no.2, pp.202-208, 2020 (SCI-Expanded)
- VI. **Application of Decision Tree Algorithm for classification and identification of natural minerals using SEM-EDS**  
AKKAŞ E., AKIN L., ÇUBUKÇU H. E., ARTUNER H.  
COMPUTERS & GEOSCIENCES, vol.80, pp.38-48, 2015 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Surface expressions of morphostructural features at Hasandağ stratovolcano on DEM datasets**  
ULUSOY İ., DİKER C., ŞEN E., AYDIN E., AKKAŞ E., GÜMÜŞ E., ÇUBUKÇU H. E., ERKUT V.  
MOVIMENTA, vol.3, 2021 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Interstitial Glass Bearing Pyroxenitic and Monzonitic Lithics: Possible magmatic origin of Gölcük Volcanism (Isparta-Turkey)**  
AKKAŞ E., ÇUBUKÇU H. E., AKIN KARAKÜLAH L.  
XXI International Congress of the Carpathian Balkan Geological Association (CBGA), Salzburg, Austria, 10 - 13 September 2018, pp.123
- II. **Analogue and Numerical modelling of double-piston piecemeal calderas**  
AYDIN E., ULUSOY İ., AKKAŞ E.  
Cities on Volcanoes 10, Napoli, Italy, 2 - 07 September 2018, pp.830
- III. **Microscopic Monitoring of Laboratory Based Physical Disintegration Ratio of Fibrous Zeolite Crystals from Cappadocian Altered Ignimbrites (Turkey)**  
AKKAŞ E., ÇUBUKÇU H. E., ERKUT V., AKIN KARAKÜLAH L., YURDAKUL Y., ULUSOY İ., ŞEN E.  
Cities on Volcanoes 10, Napoli, Italy, 2 - 07 September 2018, pp.1117
- IV. **Self-Potential, Surface Temperature, CO<sub>2</sub> measurements and related structural discontinuities on Mount Hasan, Turkey**  
DİKER C., ULUSOY İ., AKKAŞ E., ŞEN E., ÇUBUKÇU H. E., GÜMÜŞ E., BAŞAR O., AYDIN E., ERKUT V., KAYGISIZ N.  
Cities on Volcanoes 10, Napoli, 2 - 07 September 2018, pp.521

- V. **POROSITY INVESTIGATION OF KINIK COALS (SOMA BASINTURKEY) USING X-RAY MICRO-CT**  
KARAYIĞIT A. İ., ÇUBUKÇU H. E., OSKAY R. G., AKKAŞ E.  
71. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 23 - 27 April 2018
- VI. **Low Temperature Alteration of Zelve Ignimbrite (Cappadocia) Under Experimental Conditions**  
AKIN KARAKÜLAH L., ÇUBUKÇU H. E., AKKAŞ E., YURDAKUL Y., ERKUT V., ULUSOY İ., ŞEN E.  
European Geosciences Union General Assembly 2018, Viyana, Austria, 8 - 13 April 2018
- VII. **Hydrothermal fluid circulation and structural discontinuities on Mount Hasan, Turkey: preliminary results.**  
DİKER C., ULUSOY İ., AKKAŞ E., ŞEN E., ÇUBUKÇU H. E., GÜMÜŞ E., Başar O., Aydın E., Erkut V., Kaygısız N.  
European Geosciences Union General Assembly 2018, 8 - 13 April 2018
- VIII. **Patchy Zoned Clinopyroxenes of Pyroxenite Enclaves Observed in Pyroclastic Deposits Implications of Decompression during Ascend of Magma**  
AKKAŞ E., ÇUBUKÇU H. E., AKIN L.  
35th International Geological Congress, 27 August - 04 September 2016
- IX. **In situ application of Ultrasonic Pulse Velocity measurements to determine the degree of zeolitic alteration of ignimbrite**  
ÇUBUKÇU H. E., Yurdakul Y., Erkut V., AKKAŞ E., AKIN KARAKÜLAH L., ULUSOY İ., ŞEN E.  
European Geosciences Union General Assembly 2016, 17 - 22 April 2016
- X. **In situ application of Ultrasonic Pulse Velocity measurements to determine the degree of zeolitic alteration of ignimbrites**  
ÇUBUKÇU H. E., YURDAKUL Y., ERKUT V., AKKAŞ E., AKIN KARAKÜLAH L., ULUSOY İ., ŞEN E.  
European Union of Geosciences (EGU 2016), 17 - 22 April 2016
- XI. **Identification of Some Zeolite Group Minerals by Application of Artificial Neural Network and Decision Tree Algorithm Based on SEM EDS Data**  
AKKAŞ E., ÇUBUKÇU H. E., AKIN L., Erkut V., Yurdakul Y., KARAYIĞIT A. İ.  
European Geosciences Union General Assembly, 17 - 22 April 2016
- XII. **In situ application of Ultrasonic Pulse Velocity measurements to determine the degree of zeolitic alteration of ignimbrites**  
ÇUBUKÇU H. E., Yurdakul Y., Erkut V., AKKAŞ E., AKIN L., ULUSOY İ., ŞEN E.  
European Geosciences Union General Assembly, 17 - 22 April 2016
- XIII. **Petrology and Geochemistry of Pyroclastic Flow and Phreatomagmatic Deposits in Gölcük Area Isparta**  
AKIN L., AKKAŞ E., ÇUBUKÇU H. E.  
European Geosciences Union General Assembly, 17 - 22 April 2016
- XIV. **BİR İGNİMBİRİTİN ALTERASYON ÖZELLİKLERİNİN X IŞINI MİKROTOMOGRAFİ TEKNİĞİYLE BELİRLENMESİ**  
ÇUBUKÇU H. E., Yurdakul Y., AKKAŞ E., AKIN KARAKÜLAH L., Erkut V., ULUSOY İ., ŞEN E.  
69. Türkiye Jeoloji Kurultayı, Turkey, 11 - 15 April 2016
- XV. **Kapadokya nin eriyonit içeren ignimbritleri süregelen bir sorun Erionite Bearing Ignimbrites of Cappadocia An Ongoing Problem**  
ÇUBUKÇU H. E., YURDAKUL Y., AKKAŞ E., AKIN KARAKÜLAH L., ŞEN E., ULUSOY İ.  
68. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 16 - 18 April 2015
- XVI. **Kapadokya nın Eriyonit içeren ignimbritleri Süregelen bir sorun**  
ÇUBUKÇU H. E., YURDAKUL Y., AKKAŞ E., AKIN L., ŞEN E., ULUSOY İ.  
68. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 6 - 10 April 2015
- XVII. **Carcinogen Erionite bearing ignimbrites in Cappadocia Turkey**  
ÇUBUKÇU H. E., ŞEN E., YURDAKUL Y., AKIN L., AKKAŞ E., ULUSOY İ.  
Cities on Volcanoes 8, Yogyakarta, Indonesia, 9 - 13 September 2014
- XVIII. **Application of decision tree algorithm for identification of rock forming minerals using energy dispersive spectrometry**  
AKKAŞ E., ÇUBUKÇU H. E., ARTUNER H.

EGU 2014, VİYANA, Austria, 27 April - 02 May 2014, vol.16, pp.532

- XIX. **Enerji Dağılım Spektroskopisi Kullanılarak Gerçek Zamanlı Otomatik Mineral Sınıflandırılması**  
AKKAŞ E., ÇUBUKÇU H. E., ARTUNER H.  
67. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 14 - 18 April 2014

## Supported Projects

Akkaş E., TUBITAK Project, Petrological Investigation Based on Oxygen and Hydrogen Isotope Geochemistry of Sub-/Crystalline Magmatic Rock Fragments and Host Volcanic Products of Plio - Quaternary Gölcük (Isparta) Volcanism, 2023 - 2024

ERSOY O., AKKAŞ E., Diyatomit endüstriyel hammaddesinin filtrasyon özelliklerinin iyileştirilmesi, 2022 - 2023

Çubukçu H. E., Gümüş E., Şen E., Ulusoy I., TUBITAK Project, Hasan Dağı'nın Hidrotermal ve Termal Aktivitesinin Uzaktan Algılama ve Jeofiziksel Yöntemlerle İncelenmesi, 2017 - 2019

ÇUBUKÇU H. E., Erkut V., Erkut V., AKKAŞ E., Project Supported by Higher Education Institutions, Sultansazlığı Çek-Ayır Baseni (Kayseri) Kenarı Miyo-Pliyosen Volkanizma Ürünlerinin Petrolojik Niteliklerinin Belirlenmesi, 2017 - 2018

ÇUBUKÇU H. E., AKKAŞ E., Project Supported by Higher Education Institutions, Magmanın Yükselimi Sırasındaki Basınç Azalmasına Örnek: Piroklastik Ürünler İçerisinde Bulunan Piroksenit Anklavlarında Gözlemlenen Yamalı Zonlu Klinopiroksenler, 2016 - 2017

AKKAŞ E., Project Supported by Higher Education Institutions, Mikro Tomografi Yaz Okulu, 2016 - 2016

AKKAŞ E., Project Supported by Higher Education Institutions, SEM-EDS Veri Seti Üzerinden Bazı Zeolit Grubu Minerallerinin Yapay Sinir Ağları Ve Karar Ağacı Algoritması Kullanılarak Sınıflandırılması, 2016 - 2016

ÇUBUKÇU H. E., AKKAŞ E., Project Supported by Higher Education Institutions, KUVATERNER GÖLCÜK VOLKANİZMASINA AİT HİDROVOLKANİK ÇÖKELLERDEKİ MAGMATİK KSENOLİTLERİN PETROLOJİK İNCELEMESİ, 2015 - 2016

ULUSOY İ., ŞEN E., ÇUBUKÇU H. E., TUBITAK Project, Kapadokya volkanizmasına ait Orta Miyosen Geç Kuvaterner yaşlı ignimbiritlerin alterasyon özelliklerinin incelenmesi, 2014 - 2016

## Memberships / Tasks in Scientific Organizations

TMMOB Chamber of Geological Engineers, Member, 2011 - Continues, Turkey

## Metrics

Publication: 26

Citation (WoS): 17

Citation (Scopus): 41

H-Index (WoS): 1

H-Index (Scopus): 1

## Non Academic Experience

Hacettepe Teknokent Teknoloji Transferi AR-GE Danışmanlık Enerji Sağlık Çevre İletişim Sanayi ve Ticaret AŞ  
Business Establishment Private, Limak Construction, Civil Engineering  
LİMAK İNŞ. AŞ.