

Lect. Alp Ünal

Personal Information

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International Researcher IDs

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Education Information

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (Dr), Turkey 2013 - 2019

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (YI), Turkey 2011 - 2013

Undergraduate, İstanbul Technical University, Maden Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 2007 - 2011

Foreign Languages

English

Dissertations

Postgraduate, Mustafakemalpaşa (Bursa) ve Susurluk (Balıkesir) arasında mostra veren magmatik kayaçların jeolojisi ve petrolojisi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (YI), 2013

Research Areas

Geological Engineering, Mineralogy-petrography, Geochronology, Petrography and Petrology, petrogenesis, Engineering and Technology

Academic Titles / Tasks

Lecturer PhD, İstanbul Technical University, Maden, Jeoloji Mühendisliği, 2019 - Continues

Research Assistant, İstanbul Technical University, Maden, Jeoloji Mühendisliği, 2013 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. The emplacement history of granitic intrusions into the upper crust: Forceful to passive emplacement of the early Miocene Solarya Pluton (NW Turkey) as a case study
Ünal A., Altunkaynak S., Kamaci Ö., Dunkl I., Benowitz J. A.

- JOURNAL OF ASIAN EARTH SCIENCES, vol.183, 2019 (SCI-Expanded)
- II. **The origin of low-Ca olivine from ultramafic xenoliths and host basaltic lavas in a back-arc setting, James Ross Island, Antarctic Peninsula**
 Altunkaynak S., Ünal A., Howarth G. H., Aldanmaz E., Nyvlt D.
LITHOS, vol.342, pp.276-287, 2019 (SCI-Expanded)
- III. **Interplay between volcanic and plutonic systems: A case study of the early Miocene Solarya Volcano-plutonic Complex in NW Anatolia (Turkey)**
 Ünal A., Altunkaynak S.
JOURNAL OF ASIAN EARTH SCIENCES, vol.179, pp.319-336, 2019 (SCI-Expanded)
- IV. **Nature and genesis of potassic high Ba-Sr granitoids associated with syn-convergent extension in NW Turkey**
 Ünal A., Altunkaynak S.
LITHOS, vol.316, pp.261-277, 2018 (SCI-Expanded)
- V. **Geochemistry of uranium and thorium and natural radioactivity levels of the western Anatolian plutons, Turkey**
 Papadopoulos A., Altunkaynak S., Koroneos A., UNAL A., KAMACI Ö.
MINERALOGY AND PETROLOGY, vol.111, no.5, pp.677-691, 2017 (SCI-Expanded)
- VI. **The Cataldag Plutonic Complex in Western Anatolia: Roles of Different Granites on the Crustal Buildup in Connection With the Core Complex Development**
 Kamaci Ö., Ünal A., Altunkaynak S., Georgiev S., Billor Z. M.
ACTIVE GLOBAL SEISMOLOGY: NEOTECTONICS AND EARTHQUAKE POTENTIAL OF THE EASTERN MEDITERRANEAN REGION, vol.225, pp.189-222, 2017 (SCI-Expanded)
- VII. **Distribution of natural radioactivity and assessment of radioactive dose of Western Anatolian plutons, Turkey**
 Papadopoulos A., Altunkaynak S., Koroneos A., UNAL A., KAMACI Ö.
TURKISH JOURNAL OF EARTH SCIENCES, vol.25, no.5, pp.434-455, 2016 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Petrography and Petrogenesis of Mantle Xenoliths from Late Miocene Basaltic Lavas of Thrace Region (NW Turkey)**
 Güraslan I. N., Ünal A., Altunkaynak S.
Çukurova Üniversitesi 40. Yıl Jeoloji Sempozyumu, Adana, Turkey, 3 - 06 May 2017, pp.215-216
- II. **MINERAL CHEMISTRY, GEOTHERMOBAROMETER CALCULATIONS AND EMPLACEMENT MECHANISMS OF SOLARYA PLUTON (NW ANATOLIA)**
 Ünal A., Altunkaynak S.
Çukurova Üniversitesi 40. Yıl Jeoloji Sempozyumu, Adana, Turkey, 1 - 05 May 2017, pp.1
- III. **Solarya (İlica-Şamlı) plütonu (KB Anadolu) Yerleşim mekanizmaları**
 UNAL A., Altunkaynak S.
 70. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 25 - 29 April 2017, pp.1
- IV. **Emplacement mechanisms of Solarya (İlica-Şamlı) Pluton (NW Turkey)**
 Ünal A., Altunkaynak S.
70th Geological Congress of Turkey, Ankara, Turkey, 14 - 19 April 2017, pp.1
- V. **Emplacement of the Solarya Pluton (NW Turkey)**
 UNAL A., Altunkaynak S.
European Geosciences Union General Assembly 2017, Viyana, Austria, 10 - 18 April 2017, pp.8170
- VI. **Geochemistry and Sr-Nd-Pb isotopic characteristics of mantle xenoliths of Hacikoy and Karatepe alkaline lavas in Thrace Region (NW Turkey).**
 Güraslan I. N., UNAL A., Altunkaynak S.
European Geosciences Union General Assembly 2017, Viyana, Austria, 10 - 18 April 2017, pp.10685

- VII. **The Origin and Petrogenesis of Mount Hasan (Small Mt. Hasan) and Keçiboyduran Stratovolcanoes**
Çalışkanoğlu A. Z., UNAL A., KAMACI Ö., Altunkaynak \$.
European Geosciences Union General Assembly 2017, Viyana, Austria, 10 - 18 April 2017, pp.849
- VIII. **Natural radioactivity of Western Anatolian plutons, Turkey**
PAPADOPOULOS A., Altunkaynak \$., KORONEOS A., UNAL A., KAMACI Ö.
14. International Congress Thessaloniki, Thessaloniki, Greece, 25 - 27 May 2016, pp.1
- IX. **Solarya Plütonu'nun (Balıkesir) Jeokimyası ve Sr-Nd-Pb-O İzotop Özellikleri: KB Anadolu Yüksek Ba-Sr Granitoidlerine Bir Örnek**
Ünal A., Altunkaynak \$.
Jeokimya Sempozyumu, Antalya, Antalya, Turkey, 16 - 18 May 2016, pp.1
- X. **Geochemistry and Sr-Nd-Pb isotopic characteristics of Solarya Pluton (Balıkesir); An example of high Ba-Sr granites of western Anatolia**
UNAL A., Altunkaynak \$.
7th Geochemistry Symposium, Antalya, Turkey, 16 - 18 May 2016, pp.1
- XI. **Hasandağ Volkanitlerinin Jeolojisi Ve Petrografik Özellikleri**
Çalışkanoğlu A. Z., UNAL A., Karadağ E., Altunkaynak \$., Görür N.
69. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 25 - 29 April 2016, pp.1
- XII. **Solarya Volkano-Plütönik Kompleksi'nin (Balıkesir, KB Anadolu) Petrolojisi ve Tektono-Magmatik Evrimi**
UNAL A., Altunkaynak \$.
69. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 25 - 29 April 2016, pp.1
- XIII. **Volcano-stratigraphy and Petrography of the Hasandag Volcanites (Central Anatolia)**
Çalışkanoğlu A. Z., UNAL A., Karadağ E., Altunkaynak \$., Görür N.
EGU 2016, Viyana, Austria, 17 - 22 April 2016, vol.18, pp.4420
- XIV. **Contact relations and petrography of the Solarya intrusive complex (NW Turkey)**
Güraslan I. N., UNAL A., Altunkaynak \$.
EGU 2016, Viyana, Austria, 17 - 22 April 2016, vol.18, pp.8965
- XV. **Susurluk Volkanitlerinin Jeolojisi ve Petrojenezi (KB Anadolu)" Susurluk Volkanitlerinin Jeolojisi ve Petrojenezi (KB Anadolu)"**
Ünal A., KAMACI Ö., Altunkaynak \$.
65. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 12 - 18 April 2016, pp.1
- XVI. **Petrogenesis of the post-collisional Oligo-Miocene Volcanism in NW Anatolia (Turkey): Balıkesir Volcanites.**
UNAL A., Altunkaynak \$., Benowitz J.
EGU 2016, Viyana, Austria, 12 - 17 April 2016, vol.18, pp.4533
- XVII. **Petrogenesis of Post-collisional high Ba-Sr granitoids: the Solarya Pluton, NW Turkey**
UNAL A., KAMACI Ö., Altunkaynak \$.
EGU 2015, Viyana, Austria, 12 - 17 April 2015, vol.17, pp.7014
- XVIII. **The Solarya Volcano-Plutonic Complex (NW Turkey): Petrography,Petrogenesis and Tectonic Implications**
UNAL A., KAMACI Ö., Altunkaynak \$.
EGU General Assembly 2014, Viyana, Austria, 27 April - 02 May 2014, pp.1
- XIX. **Solarya Plütonu (Balıkesir): KB Anadolu Epizonal Plütönlərinə Bir Örnek,**
Altunkaynak \$., UNAL A., KAMACI Ö.
67. Türkiye Jeoloji Kurultayı, Bildiri Özleri, Ankara, Turkey, 25 - 29 April 2014, pp.1-2
- XX. **Emplacement, Deformation and Exhumation of the Çataldağ Plutonic Complex: Implications for Neotectonic Evolution of NW Anatolia (Turkey)**
KAMACI Ö., UNAL A., Altunkaynak \$.
AGU Fall Meeting, San Fransisko, United States Of America, 9 - 12 December 2013, pp.1
- XXI. **Çataldağ plütönik kompleksinde (KB Anadolu) gözlenen sürek ve üzerleyen kırılgan deformasyonun kökeni**

- UNAL A., KAMACI O., Altunkaynak §., SUNAL G., Billor M. Z.
66. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 2 - 06 April 2013, pp.1
- XXII. **Petrographic and petrochemical evolution of calc-alkaline volcanic associations of western Turkey: Susurluk volcanites**
UNAL A., KAMACI Ö., Altunkaynak §.
International Earth Sciences Colloquium on the Aegean Region (IESCA 2012), İzmir, Turkey, 1 - 05 October 2012, pp.1
- XXIII. **Volcanic stratigraphy and petrology of Susurluk volcanites (NW Turkey).**
UNAL A., KAMACI Ö., YILDIZ M., Atabek G., Yarar S., Altunkaynak §.
12th International Multidisciplinary Scientific Geoconferance (SGEM 2012), Albena, Bulgaria, 17 - 23 June 2012, pp.391-398
- XXIV. **Geochemistry and Sr-Nd-Pb isotopic characteristics of the OligoMiocene volcanism in NW Turkey: Susurluk Vcanites**
UNAL A., KAMACI Ö., Altunkaynak §.
EGU 2012, Viyana, Austria, 22 - 27 April 2012, vol.14, pp.1
- XXV. **Susurluk volkanitlerinin jeolojisi ve petrojenezi**
UNAL A., KAMACI Ö., Altunkaynak §.
65. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 2 - 06 April 2012, pp.1
- XXVI. **VOLCAIC STRATIGRAPHY AND PETROLOGY OF SUSURLUK VOLCANITES (NW TURKEY)**
Ünal A., Kamaci Ö., Yildiz M., Atabek G., Yarar S., Altunkaynak §.
12h International Multidisciplinary Scientific Geoconference (SGEM), Albena, Bulgaria, 17 - 23 June 2012, pp.391-398

Supported Projects

Altunkaynak §., Ünal A., Kamacı Ö., Project Supported by Higher Education Institutions, KB Anadoluda
İzmirAnkaraErzincan sütur zonu kuzeyinde yüzeyleyen Eosen granitoyidlerinin yerleşme yükselme ve yüzeylenme
mekanizmaları ve yaşları, 2017 - 2020

Metrics

Publication: 44
Citation (WoS): 22
Citation (Scopus): 30
H-Index (WoS): 3
H-Index (Scopus): 4