

## Lect. Alp Ünal

### Personal Information

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### Education Information

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

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Jeoloji Mühendisliği (YI), Turkey 2011 - 2013

Under Graduate, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 2007 - 2011

### Foreign Languages

English

### Dissertations

Post Graduate, Mustafakemalpaşa (Bursa) ve Susurluk (Balıkesir) arasında mostra veren magmatik kayaların 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

Research Assistant, İstanbul Teknik Üniversitesi, Maden Fakültesi, Jeoloji Mühendisliği Bölümü, 2013 - Continues

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

- I. **The origin of low-Ca olivine from ultramafic xenoliths and host basaltic lavas in a back-arc setting, James Ross Island, Antarctic Peninsula**  
Altunkaynak Ş., Ünal A., Howarth G. H. , Aldanmaz E., Nyvlt D.  
LITHOS, vol.342, pp.276-287, 2019 (Journal Indexed in SCI)
- II. **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 Ş., Kamaci O., Dunkl I., Benowitz J. A.  
JOURNAL OF ASIAN EARTH SCIENCES, vol.183, 2019 (Journal Indexed in SCI)
- 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 Ş.  
JOURNAL OF ASIAN EARTH SCIENCES, vol.179, pp.319-336, 2019 (Journal Indexed in SCI)

- IV. **Nature and genesis of potassic high Ba-Sr granitoids associated with syn-convergent extension in NW Turkey**  
Ünal A., Altunkaynak Ş.  
LITHOS, vol.316, pp.261-277, 2018 (Journal Indexed in SCI)
- V. **Geochemistry of uranium and thorium and natural radioactivity levels of the western Anatolian plutons, Turkey**  
Papadopoulos A., Altunkaynak Ş., Koroneos A., UNAL A., KAMACI O.  
MINERALOGY AND PETROLOGY, vol.111, no.5, pp.677-691, 2017 (Journal Indexed in SCI)
- VI. **Distribution of natural radioactivity and assessment of radioactive dose of Western Anatolian plutons, Turkey**  
Papadopoulos A., Altunkaynak Ş., Koroneos A., UNAL A., KAMACI O.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.25, no.5, pp.434-455, 2016 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **The Cataldag Plutonic Complex in Western Anatolia: Roles of Different Granites on the Crustal Buildup in Connection With the Core Complex Development**  
Kamaci O., Ünal A., Altunkaynak Ş., Georgiev S., Billor Z. M.  
ACTIVE GLOBAL SEISMOLOGY: NEOTECTONICS AND EARTHQUAKE POTENTIAL OF THE EASTERN MEDITERRANEAN REGION, vol.225, pp.189-222, 2017 (Refereed Journals of Other Institutions)
- II. **Using SEVIRI fire observations to drive smoke plumes in the CMAQ air quality model: The case of Antalya in 2008**  
Baldassarre G., Pozzoli L., Schmidt C., Ünal A., Kindap T., Menzel W., Whitburn S., Coheur P., Kavgaci A., Kaiser J.  
Atmospheric Chemistry and Physics Discussions, vol.15, no.1, pp.1-46, 2015 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Petrography and Petrogenesi of Mantle Xenoliths from Late Miocene Basaltic Lavas of Thrace Region (NW Turkey)**  
Güraslan I. N. , Ünal A., Altunkaynak Ş.  
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 Ş.  
Çukurova Üniversitesi 40. Yıl Jeoloji Sempozyumu, Adana, Turkey, 1 - 05 May 2017, pp.1
- III. **Solarya (Ilıca-Şamlı) plütönu (KB Anadolu) Yerleşim mekanizmaları**  
UNAL A., Altunkaynak Ş.  
70. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 25 - 29 April 2017, pp.1
- IV. **Emplacement mechanisms of Solarya (Ilıca-Şamlı) Pluton (NW Turkey)**  
Ünal A., Altunkaynak Ş.  
70th Geological Congress of Turkey, Ankara, Turkey, 14 - 19 April 2017, pp.1
- V. **Emplacement of the Solarya Pluton (NW Turkey)**  
UNAL A., Altunkaynak Ş.  
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 Ş.  
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 O., Altunkaynak Ş.  
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 Ş., KORONEOS A., UNAL A., KAMACI O.  
14. International Congress Thessaloniki, Thessaloniki, Greece, 25 - 27 May 2016, pp.1
- IX. **Solarya Plütönu'nun (Balıkesir) Jeokimyası ve Sr-Nd-Pb-O İzotop Özellikleri: KB Anadolu Yüksek Ba-Sr Granitoidlerine Bir Örnek**  
Ünal A., Altunkaynak Ş.  
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 Ş.  
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 Ş., Görür N.  
69. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 25 - 29 April 2016, pp.1
- XII. **Solarya Volcano-Plütönik Kompleksi'nin (Balıkesir, KB Anadolu) Petrolojisi ve Tektono-Magmatik Evrimi**  
UNAL A., Altunkaynak Ş.  
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 Ş., 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 Ş.  
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 O., Altunkaynak Ş.  
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 Ş., 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 O., Altunkaynak Ş.  
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 O., Altunkaynak Ş.  
EGU General Assembly 2014, Viyana, Austria, 27 April - 02 May 2014, pp.1
- XIX. **Solarya Plütönu (Balıkesir): KB Anadolu Epizonal Plütönlara Bir Örnek,**  
Altunkaynak Ş., UNAL A., KAMACI O.  
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 O., UNAL A., Altunkaynak Ş.  
AGU Fall Meeting, San Fransisko, United States Of America, 9 - 12 December 2013, pp.1
- XXI. **Çataldağ plütönik kompleksinde (KB Anadolu) gözlenen sünek ve üzerleyen kırılğan deformasyonun kökeni**

UNAL A., KAMACI O., Altunkaynak Ş., 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 O., Altunkaynak Ş.

International Earth Sciences Colloquium on the Aegean Region (IESCA 2012), İzmir, Turkey, 1 - 05 October 2012, pp.1

**XXIII. VOLCAIC STRATIGRAPHY AND PETROLOGY OF SUSURLUK VOLCANITES (NW TURKEY)**

Ünal A., Kamacı O., Yıldız M., Atabek G., Yarar S., Altunkaynak Ş.

12h International Multidisciplinary Scientific Geoconference (SGEM), Albena, Bulgaria, 17 - 23 June 2012, pp.391-398

**XXIV. Volcanic stratigraphy and petrology of Susurluk volcanites (NW Turkey).**

UNAL A., KAMACI O., YILDIZ M., Atabek G., Yarar S., Altunkaynak Ş.

12th International Multidisciplinary Scientific Geoconference (SGEM 2012), Albena, Bulgaria, 17 - 23 June 2012, pp.391-398

**XXV. Geochemistry and Sr-Nd-Pb isotopic characteristics of the OligoMiocene volcanism in NW Turkey: Susurluk Vocanites**

UNAL A., KAMACI O., Altunkaynak Ş.

EGU 2012, Viyana, Austria, 22 - 27 April 2012, vol.14, pp.1

**XXVI. Susurluk volkanitlerinin jeolojisi ve petrojenezi**

UNAL A., KAMACI O., Altunkaynak Ş.

65. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 2 - 06 April 2012, pp.1

## Supported Projects

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

## Citations

Total Citations (WOS):14

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