

Prof. ERCAN ALDANMAZ

Personal Information

Email: ercan.aldanmaz@kocaeli.edu.tr

Web: <https://avesis.kocaeli.edu.tr/ercan.aldanmaz>

International Researcher IDs

ORCID: 0000-0003-2023-9556

Publons / Web Of Science ResearcherID: F-5864-2011

ScopusID: 6507900562

Yoksis Researcher ID: 1043

Education Information

Doctorate, University of Durham, Faculty of Science, Geosciences, United Kingdom 1994 - 1998

Undergraduate, İstanbul University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, Turkey 1987 - 1991

Dissertations

Doctorate, Petrogenesis of Late Cenozoic Collision Volcanism in Western Anatolia, Turkey, University of Durham, 1998

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2012 - Continues

Associate Professor, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2006 - 2012

Assistant Professor, Kocaeli University, Mühendislik Fakültesi, Jeoloji Mühendisliği, 2000 - 2006

Research Assistant, University of Durham, Faculty of Science , Geological Sciences, 1994 - 1999

Research Assistant, İstanbul University, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 1992 - 1993

Academic and Administrative Experience

Kocaeli Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2006 - Continues

Kocaeli Üniversitesi, Mühendislik Fakültesi, Jeoloji Mühendisliği Bölümü, 2003 - 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hydration State and Rheologic Stratification of the Lithospheric Mantle Beneath the North Anatolian Fault, Turkey**

Lusk A., Chatzaras V., ALDANMAZ E., Tikoff B.

- GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, vol.24, no.12, 2023 (SCI-Expanded)
- II. Effects of Mantle Hybridization by Interaction with Slab Derived Melts in the Genesis of Alkaline Lavas across the Back-Arc Region of South Shetland Subduction System
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JOURNAL OF PETROLOGY, vol.63, no.11, 2022 (SCI-Expanded)
- III. Transpressional deformation in the lithospheric mantle beneath the North Anatolian Fault Zone
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- IV. Effects of reactive dissolution of orthopyroxene in producing incompatible element depleted melts and refractory mantle residues during early fore-arc spreading: constraints from ophiolites in eastern Mediterranean
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- V. Some remarks on the nature of mantle metasomatism beneath western Anatolian-Aegean region: Contrasting isotopic signatures recorded in the Miocene lavas from the Soke Basin
Aldanmaz E., Altunkaynak S., Güçtekin A.
GEOLOGICAL JOURNAL, vol.54, pp.3860-3877, 2019 (SCI-Expanded)
- VI. 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)
- VII. Source components and magmatic processes in the genesis of Miocene to Quaternary lavas in western Turkey: constraints from HSE distribution and Hf-Pb-Os isotopes
ALDANMAZ E., Pickard M., Meisel T., Altunkaynak S., Sayit K., Sen P., Hanan B. B., Furman T.
CONTRIBUTIONS TO MINERALOGY AND PETROLOGY, vol.170, no.2, 2015 (SCI-Expanded)
- VIII. Dynamics of intraoceanic subduction initiation: 2. Suprasubduction zone ophiolite formation and metamorphic sole exhumation in context of absolute plate motions
van Hinsbergen D. J. J., Peters K., Maffione M., Spakman W., Guilmette C., Thieulot C., Plumper O., Gurer D., Brouwer F. M., ALDANMAZ E., et al.
GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS, vol.16, no.6, pp.1771-1785, 2015 (SCI-Expanded)
- IX. Eocene Granitic Magmatism in NW Anatolia (Turkey) revisited: New implications from comparative zircon SHRIMP U-Pb and Ar-40-Ar-39 geochronology and isotope geochemistry on magma genesis and emplacement
Altunkaynak S., Sunal G., ALDANMAZ E., Genc C. S., Dilek Y., Furnes H., Foland K. A., Yang J., Yildiz M.
LITHOS, vol.155, pp.289-309, 2012 (SCI-Expanded)
- X. Osmium isotope systematics and highly siderophile element fractionation in spinel-peridotites from the Tethyan ophiolites in SW Turkey: Implications for multi-stage evolution of oceanic upper mantle
ALDANMAZ E., MEISEL T., ÇELİK Ö. F., HENJES-KUNST F.
CHEMICAL GEOLOGY, vol.294, pp.152-164, 2012 (SCI-Expanded)
- XI. Osmium isotope and highly siderophile element geochemistry of mantle xenoliths from NW Turkey: implications for melt depletion and metasomatic history of the sub-continental lithospheric mantle
Aldanmaz E.
INTERNATIONAL GEOLOGY REVIEW, vol.54, no.7, pp.799-815, 2012 (SCI-Expanded)
- XII. Trace element geochemistry of primary mantle minerals in spinel-peridotites from polygenetic MOR-SSZ suites of SW Turkey: constraints from an LA-ICP-MS study and implications for mantle metasomatism
Aldanmaz E.
GEOLOGICAL JOURNAL, vol.47, no.1, pp.59-76, 2012 (SCI-Expanded)
- XIII. Mid-ocean ridge and supra-subduction geochemical signatures in spinel-peridotites from the Neotethyan ophiolites in SW Turkey: Implications for upper mantle melting processes

- ALDANMAZ E., Schmidt M. W., Gourgaud A., Meisel T.
LITHOS, vol.113, pp.691-708, 2009 (SCI-Expanded)
- XIV. **Geochemical characteristics of mafic lavas from the Neotethyan ophiolites in western Turkey: implications for heterogeneous source contribution during variable stages of ocean crust generation**
ALDANMAZ E., Yalınız M. K., Güectekin A., Gonencueoglu M. C.
GEOLOGICAL MAGAZINE, vol.145, no.1, pp.37-54, 2008 (SCI-Expanded)
- XV. **Late Miocene transcurrent tectonics in NW Turkey: evidence from palaeomagnetism and (40)Ar-(39)Ar dating of alkaline volcanic rocks**
KAYMAKCI N., Aldanmaz E., Langereis C., Spell T. L., Gurer O. F., Zanetti K. A.
GEOLOGICAL MAGAZINE, vol.144, no.2, pp.379-392, 2007 (SCI-Expanded)
- XVI. **Platinum-group-element systematics of peridotites from ophiolite complexes of northwest Anatolia, Turkey: Implications for mantle metasomatism by melt percolation in a supra-subduction zone environment**
Aldanmaz E., Koprubasi N.
INTERNATIONAL GEOLOGY REVIEW, vol.48, no.5, pp.420-442, 2006 (SCI-Expanded)
- XVII. **Mineral-chemical constraints on the miocene calc-alkaline and shoshonitic volcanic rocks of western Turkey: Disequilibrium phenocryst assemblages as indicators of magma storage and mixing conditions**
Aldanmaz E.
TURKISH JOURNAL OF EARTH SCIENCES, vol.15, no.1, pp.47-73, 2006 (SCI-Expanded)
- XVIII. **Geochemical constraints on the Cenozoic, OIB-type alkaline volcanic rocks of NW Turkey: Implications for mantle sources and melting processes**
Aldanmaz E., Koprubasi N., Gurer O., KAYMAKCI N., GOURGAUD A.
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- XIX. **Constraints on the composition and thermal structure of the upper mantle beneath NW Turkey: Evidence from mantle xenoliths and alkali primary melts**
Aldanmaz E., Gourgaud A., Kaymakci N.
JOURNAL OF GEODYNAMICS, vol.39, no.3, pp.277-316, 2005 (SCI-Expanded)
- XX. **Geochemical constraints on the petrogenesis of cenozoic I-type granitoids in northwest Anatolia, Turkey: Evidence for magma generation by lithospheric delamination in a post-collisional setting**
Koprubasi N., Aldanmaz E.
INTERNATIONAL GEOLOGY REVIEW, vol.46, no.8, pp.705-729, 2004 (SCI-Expanded)
- XXI. **Mantle source characteristics of alkali basalts and basanites in an extensional intracontinental plate setting, Western Anatolia, Turkey: Implications for multi-stage melting**
Aldanmaz E.
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- XXII. **Origin of the Upper Cretaceous-Tertiary sedimentary basins within the Tauride-Anatolide platform in Turkey**
Gurer O., ALDANMAZ E.
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- XXIII. **Petrogenetic evolution of late Cenozoic, post-collision volcanism in western Anatolia, Turkey**
Aldanmaz E., Pearce J., Thirlwall M., Mitchell J.
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Articles Published in Other Journals

- I. **Lithostratigraphy and petrology of Lachman Crags and Cape Lachman lava-fed deltas, Ulu Peninsula, James Ross Island, north-eastern Antarctic Peninsula: Preliminary results**
ALTUNKAYNAK Ş., ALDANMAZ E., GÜRASLAN İ. N., ÇALIŞKANOĞLU A. Z., ÜNAL A., NVLT D.
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- II. **Karabiga Çanakkale Granitoyidinin Jeokimyası**
GÜÇTEKİN A., KÖPRÜBAŞI N., ALDANMAZ E.
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Books & Book Chapters

- I. **Principles of Igneous and Metamorphic Petrology**
Aldanmaz E., Genç Ş. C., Akal C., Şen C., Akay E., Sunal G., Çoban H., Uysal İ., Yılmaz İ., Akbulut M., et al.
Nobel Yayın Dağıtım, Ankara, 2019
- II. **Saha Jeolojisi Çalışma Yöntemleri**
ÇAKMAKOĞLU B., HELVACI C., AKAL C., ALDANMAZ E., YİĞİTBAS E., SUNAL G., HAKYEMEZ H. Y., TUNÇ İ. O., ALÇİÇEK M. C.
Nobel Yayın, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Volcanological Map of the Karacadağ Volcanic Complex, Central Anatolia, Turkey**
ŞİŞMAN TÜKEL F., KESKİN M., ALDANMAZ E.
GSA Annual Meeting 2020, 26 - 30 October 2020
- II. **Volcanism of Central Anatolia'xxs "evil eye bead": Meke Maar and its surroundings (Konya, Turkey)**
ŞİŞMAN TÜKEL F., KESKİN M., ALDANMAZ E.
TURQUA-2020, 20 - 23 October 2020
- III. **Mantle source characteristics of Triassic alkaline lavas within theAntalya Nappes, SW Turkey**
ALDANMAZ E., GÜÇTEKİN A., YILDIZ YÜKSEKOL Ö.
EGU2020, 4 - 08 May 2020
- IV. **Transpressional deformation in the mantle below the North Anatolian fault system, Turkey**
TIKOFF B., CHATZARAS V., CHAPMAN T., BARSHI N., ALDANMAZ E., KIESOW M.
EGU 2020, 4 - 08 May 2020
- V. **Antalya Napları İçinde Bulunan Triyas Yaşı Volkanik Kayaların Petrolojik veJeokimyasal Özellikleri**
TİĞLİ Ö., YILDIZ YÜKSEKOL Ö., GÜÇTEKİN A., ALDANMAZ E.
8. Geochemistry Symposium, 2 - 06 May 2018, pp.108-109
- VI. **KIZILDAĞ OFİYOLİTİ (GÜNEY TÜRKİYE) MANTOKAYALARININ OSMİYUM İZOTOP VE İLERİ DERECEDESİDEROFİL ELEMENT (HSE) JEOKİMYASAL ÖZELLİKLERİ**
YILDIZ YÜKSEKOL Ö., ALDANMAZ E., GÜÇTEKİN A., MEISEL T.
Uluslararası katılımlı 71. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 23 - 27 April 2018, pp.553-554
- VII. **TOPRAKKALE(OSMANİYE) BÖLGESİ PLİYO-KUVATERNERALKALİ LAVLARININPETROLOJİK ÖZELLİKLERİ**
YORULMAZ C., GÜÇTEKİN A., ALDANMAZ E.
Uluslararası katılımlı 71. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 23 - 27 April 2018, pp.547-548
- VIII. **Major and trace element concentrations and Sr Nd isotopes of Kutahya Turkey volcanics and investigation of source composition**
CESUR D., MUTLU H., ALDANMAZ E., GÜLEÇ N. T.
World Multidisciplinary Earth Sciences Symposium, 5 - 09 September 2016
- IX. **Investigation of helium isotope variations of alkaline volcanic rocks In Osmaniye Region Turkey**
CESUR D., MUTLU H., ALDANMAZ E., GÜLEÇ N. T., STUART F.
World Multidisciplinary Earth Sciences Symposium, 5 - 09 September 2016
- X. **Investigation of 18O Variations of Alkaline Volcanic Rocks in Kula Region Turkey**
CESUR D., MUTLU H., ALDANMAZ E., GÜLEÇ N. T., STUART F.
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- XI. **Petrological constraints on the mantle peridotites from the Cretaceous ophiolites in southern Turkey and northern Cyprus**
YÜKSEKOL O., ALDANMAZ E., GÜÇTEKİN A., Hinsbergen D., Mason P.
EGU General Assembly 2016, Vienna, Austria, 17 - 22 April 2016
- XII. **Major and Trace Element Concentrations of Kula Volcanics and Investigation of Source Composition**
CESUR D., MUTLU H., ALDANMAZ E., GÜLEÇ N. T., Stuart F., Sarız K.
EGU 2016, VİYANA, Austria, 17 - 22 April 2016
- XIII. **Investigation of Helium Isotope Variations of Alkaline Volcanic Rocks in Kutahya Region**
CESUR D., MUTLU H., ALDANMAZ E., GÜLEÇ N. T., STUART F.
EGU 2016, 17 - 22 April 2016
- XIV. **Batı Anadolu da Söke Kuşadası çevresinde bulunan Orta Miyosen yaşlı mafik ve ortaç bileşimli lavların iz element ve Sr Nd Pb izotop sistemikleri**
GÜÇTEKİN A., ALDANMAZ E., ALTUNKAYNAK Ş.
İstanbul Üniversitesi'nde Jeolojinin 100. Yılı Sempozyumu, İstanbul, Turkey, 21 - 23 October 2015
- XV. **Trakya Havzasında KB Türkiye Yer Alan Alkali Bazaltlar İçerisindeki Manto Ksenolitlerinin Petrolojisi Jeokimyası ve Os Izotop ve Yüksekçe Siderofil Element HSE Özellikleri**
ŞİŞMAN TÜKEL F., ALDANMAZ E.
İstanbul Üniversitesinde Jeolojinin 100. Yılı Sempozyumu, Turkey, 21 - 23 October 2015
- XVI. **Batı Anadolu da Söke Kuşadası Çevresinde Bulunan Orta Miyosen Yaşlı Mafik ve Ortaç Bileşimli Lavların İz Element ve Sr Nd Pb Izotop Sistemikleri**
GÜÇTEKİN A., ALDANMAZ E., ALTUNKAYNAK Ş.
İstanbul Üniversitesinde Jeolojinin 100. Yılı Sempozyumu, Turkey, 21 - 23 October 2015
- XVII. **Investigation of Helium isotope variations of alkaline volcanic rocks in Western Anatolian Kula region**
ARAL D., MUTLU H., ALDANMAZ E., GÜLEÇ N. T., STUART F., SARIİZ K.
World Multidisciplinary Earth Science Symposium 2015, PRAGUE, Czech Republic, 7 - 11 September 2015, pp.239
- XVIII. **Petrological Constraints on the Quaternary Alkaline Lavas in Ceyhan Osmaniye Area Southern Turkey**
GÜÇTEKİN A., ALDANMAZ E.
30th International Conference on Ore Potential of Alkaline, Kimberlite and Carbonatite Magmatism, Antalya, Turkey, 29 September - 02 October 2014, pp.75
- XIX. **Helium Isotope Compositions of Geothermal Fluids and Alkaline Volcanics in Turkey A Comparative Assessment for Crust Mantle Dynamics**
HALIM M., ALDANMAZ E., FIN S., DURU A., GÜLEÇ N. T., DAVID H.
Goldschmidt Conference 2013, 20 - 22 August 2013
- XX. **Geochemical insights into multi component mantle beneath the Anatolian plate**
MEGAN P., TANYA F., BILTAN K., BARRY B H., ALDANMAZ E.
AGU Fall Meeting 2010, 13 - 15 December 2010
- XXI. **Multi stage evolution of the Neo Tethyan oceanic upper mantle Evidence from Os isotope and HSE systematics of spinel peridotites from SW Turkey**
ALDANMAZ E., MEİSEL T., ÇELİK Ö. F.
Tectonic Crossroads: Evolving Orogenes of Eurasia-Africa-Arabia, 4 - 08 October 2010, pp.87
- XXII. **Erciyes Orta Anadolu Volkanik Kayalarının Mineral Kimyasal Özellikleri**
GÜÇTEKİN A., KÖPRÜBAŞI N., ALDANMAZ E.
Konya 35. Yıl Jeoloji Sempozyumu, Konya, Turkey, 4 - 07 October 2010, pp.59-60
- XXIII. **HSE and Os isotope variations in OIB type alkaline lavas from NW Turkey Implications for the effects of post melting processes on primary melt compositions**
ALDANMAZ E., PICKARD M., FURMAN T., HANAN B. B., GÜÇTEKİN A., MEISEL T.
EGU General Assembly 2010, Vienna, Austria, 2 - 07 May 2010
- XXIV. **Geochemical evolution of Miocene volcanism in western Anatolia Turkey related to orogenic collapse**
ALDANMAZ E., MEGAN P., BARRY B H., TANYA F., BILTAN K.

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- XXV. **Armutlu Yarımadası ve Almacıkdağ amfibolitik kayaçları için izotopik ve jeokimyasal sınırlamalar**
Çelik Ö. F., Gürer Ö. F., Aldanmaz E., Spell T., Öz İ.
62. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 13 - 17 April 2009, vol.1, no.1, pp.466-467
- XXVI. **The behaviour of platinum group elements during melting processes in the Earth's upper mantle**
NECLA K., ALDANMAZ E.
International Geological Congress 2008, 11 - 13 August 2008
- XXVII. **Late Miocene transcurrent tectonics of NW Turkey Evidence from paleomagnetism and ^{40}Ar ^{39}Ar dating of the alkaline volcanic rocks**
Kaymakçı N., Aldanmaz E., Gürer Ö. F.
International Symposium on the Geodynamics of Eastern Mediterranean, İstanbul, Turkey, 15 - 18 June 2005,
pp.254
- XXVIII. **Highly siderophile element systematics of peridotites from NW Anatolian ophiolite complex Turkey Implications for mantle metasomatism by melt percolation in a supra subduction zone environment**
ALDANMAZ E.
EGU General Assembly 2005, 25 - 27 April 2005
- XXIX. **Constraints on the Thermal Structure of the Upper Mantle Beneath NW Turkey Evidence from Mantle Xenoliths and Alkali Primary Melts**
ALDANMAZ E., ALAIN G., KAYMAKCI N., GÜRER Ö. F., KÖPRÜBAŞI N.
EGU General Assembly 2004, 26 - 28 April 2004
- XXX. **Geochemical Constraints on the Cenozoic Alkaline Volcanic rocks of NW Turkey Mantle Sources and Melting Processes**
ALDANMAZ E., KÖPRÜBAŞI N., GÜRER Ö. F.
EUG General Assembly 2003, 21 - 23 April 2003
- XXXI. **Origin of the Upper Cretaceous Tertiary Sedimentary Basins within the Tauride Anatolide Platform in Turkey**
GÜRER Ö. F., ALDANMAZ E.
EUG General Assembly 2001, 23 - 25 April 2001
- XXXII. **Origin of Alkali Basalts and Basanites of an Extensional Intra continental Plate Setting of Western Anatolia Turkey**
ALDANMAZ E., JULIAN A P.
VMSG Conference 2001, Durham, UK, 22 - 24 January 2001
- XXXIII. **Genesis of Late Cenozoic Volcanism in Western Anatolia Turkey**
ALDANMAZ E., JULIAN A P., MATTHEW F T.
Eug General Assembly 1999, 12 - 14 April 1999
- XXXIV. **Geochemical Characteristics of Late Cenozoic Volcanism in Turkey**
ALDANMAZ E., JULIAN A P.
EGU General Assembly 1997, 21 - 23 April 1997

Supported Projects

ALDANMAZ E., TUBITAK Project, Antalya Naplarında Permiyen ve Triyas Volkanik Kayalarının Petrolojik Özellikleri: Hf, Nd, Pb İzotop Sistemlikleri ve Bölgesel Jeodinamik Evrim, 2018 - 2020

Aldanmaz E., Güçtekin A., Yıldız Yüksekol Ö., Project Supported by Higher Education Institutions, Supra subduction zon SSZ tipi çok fazlı ergime sistemlerinde Li ve B izotop fraksiyonasyonu ve akışkan etkileşimli iz element davranışlarının modellenmesi Torid kuşağı ofiyolit komplekslerinden örnekler ve manto primer fazlarının LA ICP MS incelemesi, 2014 - 2016

Mutlu H., Aldanmaz E., Güleç N. T., TUBITAK Project, Trakya ve Batı Anadolu Miyosen Kuaterner Alkalen Volkanik Kayalarında Üst Manto Kaynaklı Asal Gaz He Ne ve Ar Izotop Değişimlerinin İncelenmesi, 2013 - 2015

Aldanmaz E., TUBITAK Project, KB Türkiye Alkali Volkanik Alanından Manto Ksenolitlerinin Os İzotop ve Yüksekçe

Siderofil Element HSE Sistematikleri Kıtasal Ortamlarda Litosferik Manto Türevli Ergiyik Oluşumu İle İlişkili Petrolojik Proseslerin Modellenmesi, 2011 - 2012

Aldanmaz E., Güçtekin A., TUBITAK Project, Plaka içi Magmaların Manto Kaynaklarında Eski Plaka Dalımının Radyojenik İzleri Batı Türkiye Geç Miyosen Kuaterner Alkali Primitif Bazaltların Siderofil Element ve Re Os İzotop Sistematiklerinin İncelenmesi, 2008 - 2010

Aldanmaz E., Çelik Ö. F., TUBITAK Project, Supra Subduction Zonlarda SSZ Manto Ergimesi ve Ergiyik Katı Etkileşimi Proseslerinin Platinyum Grubu Elementler PGE ve Re Os İzotoplari Kullanılarak Modellenmesi Batı Türkiye Ofiyolit Komplekslerinden Örnekler, 2004 - 2006

Aldanmaz E., Gürer Ö. F., Kaymakçı N., TUBITAK Project, Kuzeybatı Türkiye de doğrultu atımlı fay geometrilerine bağlı üst manto adiyabatik dekompresyon ergime prosesleri denetleyen mekanizmalar, 2002 - 2004

Aldanmaz E., Güçtekin A., Project Supported by Higher Education Institutions, Türkiye Batosunda Üst Manto Ergime Proseslerinin Jeokimyasal Modellemesi, 2001 - 2003

Activities in Scientific Journals

Geological Bulletin of Turkey, Committee Member, 2018 - Continues
TURKISH JOURNAL OF EARTH SCIENCES, Editor, 2007 - Continues

Metrics

Publication: 61
Citation (WoS): 1968
Citation (Scopus): 2075
H-Index (WoS): 17
H-Index (Scopus): 16

Scholarships

Lisansüstü Eğitim Bursu, YOK, 1993 - 1999