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Education Information

Doctorate, University Of Cambridge-Queen's College, Department Of Earth Sciences, United Kingdom 1983 - 1987

Post Graduate, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, Turkey 1979 - 1982

Under Graduate, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, Turkey 1973 - 1979

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Geochemistry of Tertiary and Quaternary Volcanics and He-3 Distribution in Western Turkey. , University Of Cambridge-Queen's College, Department Of Earth Sciences, 1987

Post Graduate, Study of Trace Element Contents of Pyrites from Turkey and Cyprus, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 1982

Research Areas

Geological Engineering, Ore Deposits-Geochemistry, Energy Resources, Geothermal Systems, Geochemistry (Organic and Inorganic, Theoretical Geochemistry, Applied Geochemistry, Mineralogy-petrography, Geochronology, petrogenesis, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 2000 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 1995 - 2000

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 1987 - 1995

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 1979 - 1983

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 2005 - 2007

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 1996 - 1998

Advising Theses

Güleç N. T. , GEOCHEMICAL MODELING OF CO₂-WATER-ROCK INTERACTION IN INDONESIAN GEOTHERMAL FIELDS FOR A POSSIBLE FUTURE CARBON CAPTURE AND STORAGE PROJECT, Post Graduate, G.Utomo(Student), 2019

GÜLEÇ N. T. , Geochemical characterization of geothermal systems in Turkey as natural analogues for geological storage of CO₂, Post Graduate, S.ELİDEMİR(Student), 2014

Güleç N. T. , Kuşcu İ., Genetic Modeling of the Şamlı (Balıkesir) Iron Deposit, Doctorate, E.YILMAZER(Student), 2012

Güleç N. T. , Tolluoğlu Ü., Volcanostratigraphy and Petrogenesis of Süphan Stratovolcano, Doctorate, Y.Özdemir(Student), 2011

Güleç N. T. , Parlaktuna M., Geochemical evaluation and conceptual modeling of Edremit geothermal field, Doctorate, Ö.AVŞAR(Student), 2011

Güleç N. T. , Kuşcu İ., Genetic Investigation of Kartaldağ and Madendağ Epithermal Gold Mineralizations in Çanakkale Region, Post Graduate, E.Ünal(Student), 2010

Güleç N. T. , Erzinger J., Geochemical Monitoring of the Seismic Activities and Noble Gas Characterization of the Geothermal Fields along the Eastern Segment of the Büyük Menderes Graben, Doctorate, S.SÜER(Student), 2010

Güleç N. T. , Kuşcu İ., Genetical Investigation of the Balya-Balıkesir Lead-Zinc Mineralizations, Post Graduate, G.Özışık(Student), 2009

Güleç N. T. , Isotope Geochemistry of Geothermal Systems along the North Anatolian Fault Zone, Post Graduate, S.SÜER(Student), 2004

Güleç N. T. , Lead-Isotope Geochemistry of Pb-Zn Deposits from Eastern Taurides, Turkey, Post Graduate, N.Ceyhan(Student), 2003

Güleç N. T. , Karahanoğlu N., Thermal Waters from North Anatolian Fault Zone: Geochemistry and Geothermometry Applications, Post Graduate, J.Yapmış(Student), 2002

Güleç N. T. , Geochemical Assessment of Environmental Effects of the Trace Metals Around Kutlular Mine, Sürmene-Trabzon, Post Graduate, A.Senyücel(Student), 1999

Güleç N. T. , Erler A., Geochemical Assessment of Environmental Effects of Fly Ash from Seyitömer (Kütahya) Thermal Power Plant, Post Graduate, B.Çancı(Student), 1998

Güleç N. T. , Geological and Geochemical Evaluation of the Geothermal Areas in Western Anatolia, Turkey, Doctorate, Ç.Namoğlu(Student), 1997

Güleç N. T. , Genesis of Ağaçören Intrusive Suite and its Enclaves (Central Anatolia): Constraints from Geological, Petrographic, Geophysical and Geochemical Data, Doctorate, Y.KAĞAN(Student), 1996

Güleç N. T. , Geochemical Assessment of Thermal Waters from the Afyon Geothermal Area: Geothermometry Applications and Fluid-Mineral Equilibria, Doctorate, H.MUTLU(Student), 1996

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

- **Geochemical characterization of geothermal systems in western Anatolia (Turkey): implications for CO₂ trapping mechanisms in prospective CO₂-EGS sites**

Elidemir S., Gulec N. T.

GREENHOUSE GASES-SCIENCE AND TECHNOLOGY, vol.8, pp.63-76, 2018 (Journal Indexed in SCI)

- **Subaqueous hot springs in Koycegiz Lake, Dalyan Channel and Fethiye-Gocek Bay (SW Turkey): Locations, chemistry and origins**

Avsar O., Avsar U., Arslan S., Kurtulus B., Niedermann S., Gulec N. T.

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- **Turkish geothermal fields as natural analogues of CO₂ storage sites: Gas geochemistry and implications**

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CHEMICAL GEOLOGY, vol.411, pp.1-11, 2015 (Journal Indexed in SCI)
- **Geology, geochemistry, and geochronology of Fe-oxide Cu (+/- Au) mineralization associated with Samli pluton, western Turkey**
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ORE GEOLOGY REVIEWS, vol.57, pp.191-215, 2014 (Journal Indexed in SCI)
- **Geological and Geochemical Evolution of the Quaternary Suphan Stratovolcano, Eastern Anatolia, Turkey: Evidence for the Lithosphere-Asthenosphere Interaction in Post-Collisional Volcanism**
Özdemir Y., Gulec N.
JOURNAL OF PETROLOGY, vol.55, pp.37-62, 2014 (Journal Indexed in SCI)
- **Genetic investigation and comparison of Kartaladag and Madendag epithermal gold deposits in Canakkale, NW Turkey**
Unal-Imer E., Güleç N. T. , Kuşcu İ., Fallick A. E.
ORE GEOLOGY REVIEWS, vol.53, pp.204-222, 2013 (Journal Indexed in SCI)
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- **Spatial variations in gas and stable isotope compositions of thermal fluids around Lake Van: Implications for crust-mantle dynamics in eastern Turkey**
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- **Noble gas isotopes and the chemical composition of geothermal gases from the eastern part of the Buyuk Menderes Graben (Turkey)**
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- **The importance of fractional crystallization and magma mixing in controlling chemical differentiation at Suphan stratovolcano, eastern Anatolia, Turkey**
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- **U Pb and ⁴⁰Ar ³⁹Ar Geochronology and Isotopic Constraints on the Genesis of Copper Gold Bearing Iron Oxide Deposits in the Hasancelebi District Eastern Turkey**
Kuşcu İ., Yilmazer E., Güleç N. T. , Bayır S., Demirela G., Kuşcu G., Kuru G. S. , Kaymakçı N.
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- **Helium-carbon relationships in geothermal fluids of western Anatolia, Turkey**
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CHEMICAL GEOLOGY, vol.247, pp.305-321, 2008 (Journal Indexed in SCI)
- **Geochemical monitoring of geothermal waters (2002-2004) along the North Anatolian Fault Zone, Turkey: Spatial and temporal variations and relationship to seismic activity**

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PURE AND APPLIED GEOPHYSICS, vol.165, pp.17-43, 2008 (Journal Indexed in SCI)

- **Volcano stratigraphy and petrogenesis of the Nemrut stratovolcano (East Anatolian High Plateau): The most recent post-collisional volcanism in Turkey - Reply**
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- **Assessment of soil and water contamination around an ash-disposal site: A case study from the Seyitomer coal-fired power plant in western Turkey**
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ENVIRONMENTAL GEOLOGY, vol.40, pp.331-344, 2001 (Journal Indexed in SCI)
- **Types and genesis of the enclaves in Central Anatolian granitoids**
Kadioglu Y., Gulec N.
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- **Hydrogeochemical outline of thermal waters and geothermometry applications in Anatolia (Turkey)**
Mutlu H., Güleç N. T.
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- **Structural interpretation of gabbroic rocks in Agacoren Granitoid, central Turkey: field observations and aeromagnetic data**
Kadioglu Y., Ates A., Gulec N.
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- **Relative involvement of mantle and crustal components in the Agacoren granitoid (central Anatolia, Turkey): Estimates from trace element and Sr-isotope data**
Gulec N., Kadioglu Y.
CHEMIE DER ERDE-GEOCHEMISTRY, vol.58, pp.23-37, 1998 (Journal Indexed in SCI)
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Wilson M., Tankut A., Gulec N.
LITHOS, vol.42, pp.105-121, 1997 (Journal Indexed in SCI)
- **Mafic microgranular enclaves and interaction between felsic and mafic magmas in the agacoren intrusive suite: Evidence from petrographic features and mineral chemistry**
Kadioglu Y. K. , Gülec N. T.
International Geology Review, vol.38, pp.854-867, 1996 (Journal Indexed in SCI Expanded)
- **Geochemistry of thermal waters and its relation to the volcanism in the Kizilcahamam (Ankara) area, Turkey**
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Journal of Volcanology and Geothermal Research, vol.59, pp.295-312, 1994 (Journal Indexed in SCI)
- **GEOCHEMICAL CHARACTERISTICS OF GRANITOIDS ALONG THE WESTERN MARGIN OF THE CENTRAL ANATOLIAN CRYSTALLINE COMPLEX AND THEIR TECTONIC IMPLICATIONS**
AKIMAN O., ERLER A., GONCUOGLU M., GULEC N. T. , GEVEN A., TURELIT., KADIOGLU Y.
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- **Crust–mantle interaction in western Turkey: Implications from Sr and Nd isotope geochemistry of Tertiary and Quaternary volcanics**

Güleç N. T.

Geological Magazine, vol.128, pp.417-435, 1991 (Journal Indexed in SCI)

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- **Ağaçören granitoidinde yeralan gabro kütlelerinin yapısal konumu jeolojik ve jeofizik öz direnç verilerinin yorumu**
Kadioğlu Y. K. , Güleç N. T.
TÜBİTAK Doğa Türk Yerbilimleri Dergisi, vol.5, pp.153-159, 1996 (Other Refereed National Journals)
- **The anatomy of a gabbro body and its bearings on the origin of mafic enclaves in the Ağaçören granitoid central Turkey**
Güleç N. T. , Toprak V., Yusuf Kagan K., Barbara B.
Israel Journal of Earth Sciences, vol.45, pp.169-192, 1996 (Refereed Journals of Other Institutions)
- **Helium 3 distribution in western Turkey**
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Bulletin of the Mineral Research and Exploration (MTA Derg.), vol.108, pp.33-42, 1988 (Other Refereed National Journals)
- **Masif sülfid yataklarındaki piritlerin karakteristik iz element içerikleri**
Güleç N. T. , Erler A.
Türkiye Jeoloji Kurumu Bülteni, vol.26, pp.145-152, 1983 (Other Refereed National Journals)

Book & Book Chapters

- **Chapter 1: Chemical and isotopic constraints on the origin of thermal waters in Anatolia.**
Mutlu H., Güleç N. T. , Hilton D. R.
in: Geothermal Systems and Energy Resources: Turkey and Greece, Baba,A.,Bundschuh,J.,Chandrasekharam,D., Editor, CRC Press/Balkema, Leiden, pp.1-12, 2014
- **Chapter 2: Gas geochemistry of Turkish geothermal fluids.**
Güleç N. T. , Mutlu H., Hilton D. R.
in: Geothermal Systems and Energy Resources: Turkey and Greece,, Baba,A.,Bundschuh,J.,Chandrasekharam,D., Editor, CRC Press/Balkema, Leiden, pp.13-24, 2014
- **Chapter 1: Chemical and isotopic constraints on the origin of thermal waters in Anatolia**
MUTLU H., GÜLEÇ N. T. , HILTON D. R.
in: Geothermal Systems and Energy Resources Turkey and Greece, Baba, A., Bundschuh, J., Chandrasekharam, D , Editor, CRC Press Taylor & Francis Group, pp.1-12, 2014
- **Chapter 2: Gas geochemistry of Turkish geothermal fluids**
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in: Geothermal Systems and Energy Resources Turkey and Greece, Baba, A., Bundschuh, J., Chandrasekharam, D. , Editor, CRC Press, Taylor & Francis Group, pp.13-24, 2014
- **Iron oxide-(copper +/- gold) mineralization in the Turkish Tethyan Collage**
KUŞÇU I., YILMAZER E., DEMİRALA G., GENÇALIOĞLU KUŞÇU G., GÜLEÇ N. T.
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- **Iron oxide-(copper □ gold) mineralization in the Turkish Tethyan Collage.**
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- **Helium and Heat Distribution in Western Anatolia, Turkey: Relationship to Active Extension and Volcanism**
Güleç N. T. , Hilton D. R.

in: Post-Collisional Tectonics and Magmatism in the Eastern Mediterranean Region, Dilek, Y. and Pavlides, S., Editor, Geological Society of America, Colorado, pp.305-319, 2006

- **Applications of Geothermometry**

Güleç N. T.

in: Geothermal Geochemistry and Some New Geothermal Approaches (Reviewed Course Book of International Summer School on Geothermal Geochemistry), Savaşçın, M. Y., and Mertoğlu, O., Editor, Dokuz Eylül Üniversitesi, Ankara, pp.85-103, 2005

- **Jeotermal Alanlarda İzotop Jeokimyası**

GÜLEÇ N. T. , MUTLU H.

in: Jeotermalde Yerbilimsel Uygulamalar, , Editor, Dokuz Eylül Üniversitesi Mühendislik Fakültesi, pp.64-88, 2002

- **Magmatik Kayaçların İzotop Jeokimyası**

Güleç N. T.

in: Magmatik Petrojenez, Boztuğ, D. and Otlı, N., Editor, TMMOB Jeoloji Mühendisleri Odası, Ankara, pp.332-365, 2001

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in: Jeokimya : Temel Kavram ve İlkeler (2.baskı), Çağatay, N. ve Erler, A., Editor, TMMOB Jeoloji Mühendisleri Odası, Ankara, pp.205-240, 1993

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AYDIN H., KARAKUŞ H., MUTLU H., GÜLEÇ N. T. , HILTON D. R.

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MUTLU H., GÜLEÇ N. T. , AYDIN H., HILTON D.

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