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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), Turkey 1998 - 2005

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), Turkey 1992 - 1996

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, Turkey 1987 - 1992

Dissertations

Doctorate, Zircon typology and chemistry of the granitoids from Central Anatolia, Turkey, Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), 2005

Postgraduate, The Geological and petrological characteristics of the İdiş Dağı-Avanos area (Nevşehir-central anatolian), Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeoloji Mühendisliği (YI) (Tezli), 1996

Research Areas

Geological Engineering

Courses

Mineralogy, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Middle Permian basic and acidic volcanism in the Istanbul zone (NW Turkey): evidence for post-variscan extensional magmatism**
Babaoglu C., Topuz G., Okay A. I., Koksal S., Wang J., Toksoy Köksal F.
INTERNATIONAL GEOLOGY REVIEW, vol.65, no.21, pp.3435-3452, 2023 (SCI-Expanded)
- II. **Animal husbandry, isotopes, and land use at the Late Bronze Age Hittite city of Şapinuva**

(Şapinuwa), Turkey: insights from strontium isotopes

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Archaeological and Anthropological Sciences, vol.15, no.5, 2023 (SCI-Expanded)

- III. **Tracing the protoliths of the garnet amphibolitic and retrogressed eclogitic slices and a conceptual tectonic model for their emplacement onto the Central Menderes Massif, Turkey: New geochemical data and laser ablation-inductively coupled plasma-mass spectrometry U-Pb zircon and rutile ages**
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GEOLOGICAL SOCIETY OF AMERICA BULLETIN, vol.135, no.9-10, pp.2486-2509, 2023 (SCI-Expanded)
- IV. **Late Cretaceous volcanic arc magmatism in southeast Anatolian Orogenic Belt: Constraints from whole-rock, mineral chemistry, Sr-Nd isotopes and U-Pb zircon ages of the Baskil Intrusive Complex (Malatya, Turkey)**
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- V. **Combined U-Pb ages and Lu-Hf systematics of detrital zircons from Early Cambrian Gondwanan siliciclastic rocks in S Turkey: Provenance and correlations with coeval successions in peri-Gondwanan terranes**
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- VI. **The Upper Cretaceous intrusive rocks with extensive crustal contribution in Hacimahmutusagi Area (Aksaray/Turkey)**
KÖKSAL S.
GEOLOGICA CARPATHICA, vol.70, no.3, pp.261-276, 2019 (SCI-Expanded)
- VII. **Nd, Pb, Hf isotope characteristics and provenance of glacial granitic pebbles from Late Ordovician diamictites in the Taurides, S Turkey**
GÜRSU S., Mueller P. A., Sunkari E. D., Moller A., KÖKSAL S., Kamenov G., Goncuoglu M. C.
GONDWANA RESEARCH, vol.54, pp.205-216, 2018 (SCI-Expanded)
- VIII. **Petrogenesis and geodynamics of plagiogranites from Central Turkey (Ekecikdag/Aksaray): new geochemical and isotopic data for generation in an arc basin system within the northern branch of Neotethys**
KÖKSAL S., KÖKSAL F., GÖNCÜOĞLU M. C.
INTERNATIONAL JOURNAL OF EARTH SCIENCES, vol.106, no.4, pp.1181-1203, 2017 (SCI-Expanded)
- IX. **Laser Ablation Inductively Coupled Plasma Mass Spectrometry U-Pb Dating of Detrital and Magmatic Zircons of Glacial Diamictites and Pebbles in Late Ordovician Sediments of the Taurides and Southeast Anatolian Autochthon Belt, Turkey: Indications for Their Arabian-Nubian Provenance**
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- X. **Geochemistry, Sr-Nd isotope data and petrogenesis of the Marziyan granitoid, Sanandaj-Sirjan Zone, western Iran**
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- XI. **Neoproterozoic continental arc volcanism at the northern edge of the Arabian Plate, SE Turkey**
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PRECAMBRIAN RESEARCH, vol.258, pp.208-233, 2015 (SCI-Expanded)
- XII. **3.8 Ga zircons sampled by Neogene ignimbrite eruptions in Central Anatolia Comment**
KÖKSAL S., Toksoy-Koksal F., GÖNCÜOĞLU M. C., Moller A., Gerdes A., Frei D.
GEOLOGY, vol.41, no.12, 2013 (SCI-Expanded)
- XIII. **Comment on 3.8 Ga zircons sampled by Neogene ignimbrite eruptions in Central Anatolia by Paquette LePennec**
Köksal S., Toksoy-Köksal F., Göncüoğlu M. C., Möller A., Gerdes A., Frei D.
Geology, vol.41, pp.307, 2013 (SCI-Expanded)
- XIV. **Crustal source of the Late Cretaceous Satansari monzonite stock (central Anatolia - Turkey) and its**

significance for the Alpine geodynamic evolution

KÖKSAL S., KÖKSAL F., GÖNCÜOĞLU M. C., Moeller A., Gerdes A., Frei D.
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- XV. **Crustal homogenization revealed by U-Pb zircon ages and Hf isotope evidence from the Late Cretaceous granitoids of the Agacoren intrusive suite (Central Anatolia/Turkey)**
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- XVI. **Origin of the Early-Middle Devonian magmatism in the Sakarya Zone, NW Turkey: Geochronology, geochemistry and isotope systematics**
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- XVII. **NEW DATA ON THE EVOLUTION OF THE NEOTETHYAN OCEANIC BRANCHES IN TURKEY: LATE JURASSIC RIDGE SPREADING IN THE INTRA-PONTIDE BRANCH**
GÖNCÜOĞLU M. C., Guersu S., TEKİN U. K., KÖKSAL S.
OFIOLITI, vol.33, no.2, pp.153-164, 2008 (SCI-Expanded)
- XVIII. **Zircon typologies and internal structures as petrogenetic indicators in contrasting granitoid types from Central Anatolia**
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- XIX. **Zircon typologies and internal structures as petrogenetic indicators in contrasting granitoid types from central Anatolia, Turkey**
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- XX. **Sr and Nd isotopic characteristics of some S-, I- and A-type granitoids from Central Anatolia**
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- XXI. **Timing of Post collisional H type to A type Granitic Magmatism U Pb Titanite Ages from the Alpine Central Anatolian Granitoids Turkey**
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- XXIII. **Extrusive members of postcollisional A-type magmatism in Central Anatolia: Karahidir Volcanics, Idis Dağı-Avanos Area, Turkey**
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- XXIV. **Post-Collisional A-Type Magmatism in the Central Anatolian Crystalline Complex: Petrology of the İdiş Dağı Intrusives (Avanos, Turkey)**
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Articles Published in Other Journals

- I. **Granitik Buzul Çakıllarında Zirkon Tipolojisi Çalışması: Toridler'den Örnek Bir Çalışma (Türkiye)**
KÖKSAL S.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.20, pp.917-930, 2020 (Peer-Reviewed Journal)
- II. **Geology of the Idis Dağı Avanos area Nevşehir Central Anatolia**

KÖKSAL S., MEHMET CEMAL G.

Bulletin of Mineral Resource and Exploration, vol.119, pp.41-58, 1997 (Peer-Reviewed Journal)

III. İDİŞ DAĞI -AVANOS ALANININ JEOLJİSİ (NEVŞEHİR, ORTA ANADOLU)

KÖKSAL S., Goncuoglu M. C.

Maden Tetkik ve Arama Dergisi, vol.119, pp.73-87, 1997 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Geochemical and Medical Geological Properties of İzmir City Centre**
Kılıç A., Toksoy Köksal F., Köksal S.
75. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 14 April 2023, pp.573
- II. **Application of Radiogenic Isotope Geochemistry in Archaeology: Benefits and Handicaps**
Köksal S., Pişkin E., Durdu G., Süer S., Küçük A.
Uluslararası Katılımlı 75. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 10 - 14 April 2023, pp.404
- III. **Late Pleistocene-Holocene Properties of the Black Sea from Uplifted Coastal Deposits**
Erturaç M. K., Şahiner E., Kandemir R., Sağlam Selçuk A., Çelen M., Okur H., Dikbaş A., Hasözbeğ A., Barredo F. J., Köksal S., et al.
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- IV. **Güneydoğu Anadolu Orojenik Kuşağında, Kale (Malatya, GD Türkiye) Bölgesindeki Geç Kretase Volkanik Yay Magmatizmi: U-Pb Zirkon Yaş, Tüm Kaya ve Sr-Nd İzotop Jeokimya Kanıtları**
NURLU N., KÖKSAL S., Kohut M.
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- V. **Middle Permian calc-alkaline basalts and ferroan rhyolites in the Istanbul Zone, NW Turkey: Evidence for Permo-Triassic subduction**
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- VI. **A new petrogenetic model for Late Neoproterozoic Granitoids and gabbros in the Menderes Massif, Western Turkey: Implications for late-stage Cadomian magmatism in the Pan-African mega-cycle**
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- VII. **Andean-type Late Neoproterozoic subalkaline magmatism in southern Turkey: Evidence for an active continental margin in the Peri-Gondwanan Realm**
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- VIII. **Geochemical and isotopic data of meta-gabbroic dikes in Alaşehir area in the Menderes Massif, Western Turkey: Evidence for the Early Cambrian back-arc rifting?**
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- IX. **From magmatic arc to post-collisional back-arc setting in the Tauride-Anatolide Platform (TAP): Overview of the Cadomian basement rocks in Turkey**
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- X. **Nd, Pb and Hf Isotope Provenance of Glacial Granitic Pebbles in Late Ordovician Diamictites of the Taurides, S Turkey**
GÜRSU S., MÖLLER A., MUELLER P. A., KÖKSAL S., KAMENOV G. D., Goncuoglu M. C.
Goldschmidt 2017, Paris, France, 13 - 18 August 2017
- XI. **ARAP LEVHASININ EN KUZEY KESİMİNİNDE (DERİK, MARDİN) GÖZLENEN ERKEN KAMBRİYEN-GEÇ NEOPROTEROZOYİK? YAŞLI VOLKANİTLERİN PETROJENETİK ÖZELLİKLERİ, GD ANADOLU**
GÜRSU S., Goncuoglu M. C., KÖKSAL S.
65. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 2 - 06 April 2012, pp.378-381

- XII. **Sakarya zonu temelinde alt-orta Devoniyen magmatizmasının kökeni, KB Türkiye: jeokronoloji, jeokimya ve izotop sistemleri.**
AYSAL N., USTAÖMER T., ÖNGEN A. S., KESKİN M., KÖKSAL S., Peytcheva I., Fanning M.
64. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 25 - 29 April 2011, pp.31-32
- XIII. **How to classify the Late Neoproterozoic magmatism in diverse Alpine terranes in Anatolia: Cadomian or Pan-African.**
Goncuoglu M. C., KÖKSAL S., GÜRSU S.
23rd Colloquium of African Geology - Together in Africa for a leading role in geoscience, Johannesburg, South Africa, 08 January 2011, pp.160
- XIV. **Re evaluation of the petrological features of the Ekecikdag oceanic plagiogranites in Central Anatolia Turkey**
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- XV. **Re-evaluation of the petrological features of the Ekecikdağ Plagiogranites in Central Anatolia/Turkey**
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- XVI. **Is a single model adequate to explain origin of the gabbros from central Anatolia, Turkey?**
Toksoy-Köksal F., Köksal S., Göncüoğlu M. C.
Symposium of Geological Society of America, Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia, Ankara, Turkey, 4 - 08 October 2010, pp.83
- XVII. **Rare Earth Geochemistry of Within Plate Granite (Tsagaan Davaa, Modot, Bogd Uul)**
Khishigsuren S., KÖKSAL S., Goncuoglu M. C., Dandar S.
XVII International Symposium of Kherlen Geological Expedition, Ulanbator, MOĞOLİSTAN, 01 October 2010, vol.36, pp.161-164
- XVIII. **Geochemistry and petrogenetic features of the Early Cambrian volcanism in Telbesmi Formation, Mardin-Derik, SE Turkey**
GÜRSU S., Goncuoglu M. C., KÖKSAL S.
XIX Congress of the Carpathian-Balkan Geological Association, Thessaloniki, Greece, 23 September 2010, pp.148-149
- XIX. **Satansarı Granitoidinin Sr, Nd ve Hf izotopik özellikleri ve zircon LA-SF-ICP-MS U-Pb yaşları (Aksaray), Orta Anadolu Kristalen Kompleksi**
Goncuoglu M. C., KÖKSAL S., FREI D., TOKSOY KÖKSAL F., MÖLLER A., GERDES A.
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- XX. **Sr, Nd, Hf isotopic signatures and LA-SF-ICP-MS U-Pb zircon ages from Satansarı Granitoid (Aksaray), Central Anatolian Crystalline Complex**
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- XXI. **U-Pb age and isotope data from the S- and I-type syn-collisional granites in Ekecikdag area, central Anatolia**
TOKSOY KÖKSAL F., GERDES A., Goncuoglu M. C., MÖLLER A., FREI D., KÖKSAL S.
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- XXIII. **U-Pb age and isotope data from the S- and I-type syn-collisional granites in the Ekecikdag area, central Anatolia**
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- XXIV. **Homogenization of the Central Anatolian Crust in the Late Cretaceous: Zircon U-Pb Ages and Lu-Hf Isotope Data from the Granitoids of the Western Margin of the Central Anatolian Crystalline Complex (Turkey)**
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- XXV. **Üst Kretase'de Orta Anadolu kıtasal kabuğunun homojenleşmesi: Orta Anadolu Kristalen Karmaşığı (Türkiye)'nin batı kenarındaki granitoidlerde zirkon U-Pb yaş tayini ve Lu-Hf izotop verileri.**
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- XXVI. **An Approach to the Central Anatolian (Avanos) Late Mesozoic Magmatism: Petrology of Cogenetic Granitic and Volcanic Rocks.**
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- XXVII. **Türkiye'de İzotop Jeokimyası Araştırmasında Yeni Bir Laboratuvar**
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- XXVIII. **Orta Anadolu (Avanos) Geç Mezozoyik Magmatizmasının Evrimine bir Yaklaşım: Eşoluşumlu Granitik ve Volkanik Kayaçların Petrolojisi**
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- XXIX. **Petrological Characteristics and LA SF ICP MS U Pb ages of S type Granitoids from Central Turkey**
KÖKSAL S., MÖLLER A., FREI D., GÖNCÜOĞLU M. C., TOKSOY KÖKSAL F.
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- XXX. **Petrological Characteristics and LA-SF-ICP-MS U-Pb ages of S-type Granitoids from Central Turkey**
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- XXXII. **Orta Anadolu Granitoidlerinde Zirkon/Apatit Jeotermometresi Yöntemleri ile Zirkon Tipolojisi Verilerinin Karşılaştırılması**
KÖKSAL S., GÜRSU S., Goncuoglu M. C., TOKSOY KÖKSAL F.
60. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 16 - 20 April 2007, vol.3, pp.250-255
- XXXIII. **Comparison of Zircon/Apatite Geothermometry Methods and Zircon Typology Data of the Central Anatolian Granitoids**
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- XXXVI. **Farklı Granitoid Tiplerinde Zirkon Oluşumu: Orta Anadolu Granitoidlerinden Örnekler**
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- XXXVII. **Tracing magmatic history from zircons of the S- and H-type granitoids in the Ekecikdağ Intrusive Suite (central Anatolia, Turkey).**
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- XXXVIII. **H-tipi ve A-tipi Granitoidlerin Birlikteliğine Bir Örnek: Baranadağ ve Çamsarı Granitoidleri (Kırşehir)'nin Zirkon Tipolojisi Metodu ve Jeokimyasal Çalışmalarla Karşılaştırılması**
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I. Ulusal Jeokimya Sempozyumu, TÜBİTAK-BUTAL, Bursa, Turkey, 18 November 2004, pp.40
- XXXIX. **H tipi ve A tipi granitoidlerin birlikteliğine bir örnek Baranadağ ve Çamsarı granitoidleri Kaman Kırşehir nin zirkon tipolojisi metodu ve jeokimyasal çalışmalarla karşılaştırılması**
KÖKSAL S., TOKSOY KÖKSAL F., GÖNCÜOĞLU M. C.
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- XL. **The geological and petrographical characteristics of the magmatic rocks and their contact zones in the Hacimahmutusagi (Ortaköy-Aksaray) area, Central Anatolian Crystalline Complex, Turkey.**
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Expert Reports

- I. **Orta Anadolu Masifinin orta bölümünün jeolojisi Bolum 3 Orta Kızılırmak Tersiyer Basenininjolojik evrimi**
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Metrics

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Non Academic Experience

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