

## Assoc. Prof. SERHAT KÖKSAL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: A-6486-2009

ScopusID: 23569607000

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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**

PIŞKİN E., KÖKSAL S., Durdu G.

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**  
Gursu S., Moller A., Inglis J. D., Göncüoğlu M. C., Hefferan K., Toksoy-Koksal F., Küçük A., Köksal S.  
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)**  
NURLU N., KÖKSAL S., Kohut M.  
GEOLOGICAL JOURNAL, vol.57, no.8, pp.3048-3073, 2022 (SCI-Expanded)
- 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**  
Gürsu S., KÖKSAL S., Möller A., Kamenov G. D., Cemal Göncüoğlu M., Hefferan K., Mueller P. A., Kozlu H.  
Gondwana Research, vol.107, pp.423-450, 2022 (SCI-Expanded)
- 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**  
GÜRSU S., Moller A., Usta D., KÖKSAL S., Ates S., Sunkari E. D., GÖNCÜOĞLU M. C.  
JOURNAL OF GEOLOGY, vol.125, no.2, pp.165-202, 2017 (SCI-Expanded)
- X. **Geochemistry, Sr-Nd isotope data and petrogenesis of the Marziyan granitoid, Sanandaj-Sirjan Zone, western Iran**  
Datvishi E., Khalili M., Toksoy-Koksal F., KÖKSAL S., Beavers R.  
NEUES JAHRBUCH FÜR MINERALOGIE-ABHANDLUNGEN, vol.192, no.2, pp.195-210, 2015 (SCI-Expanded)
- XI. **Neoproterozoic continental arc volcanism at the northern edge of the Arabian Plate, SE Turkey**  
GÜRSU S., Moeller A., Goncuoglu M. C., KÖKSAL S., Demircan H., Koksal F., Kozlu H., Sunal G.  
PRECAMBRIAN RESEARCH, vol.258, pp.208-233, 2015 (SCI-Expanded)
- XII. **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)
- XIII. **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.  
JOURNAL OF GEODYNAMICS, vol.65, pp.82-93, 2013 (SCI-Expanded)

- XIV. **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)**  
KÖKSAL S., Moller A., GÖNCÜOĞLU M. C., Frei D., Gerdes A.  
CONTRIBUTIONS TO MINERALOGY AND PETROLOGY, vol.163, no.4, pp.725-743, 2012 (SCI-Expanded)
- XV. **Origin of the Early-Middle Devonian magmatism in the Sakarya Zone, NW Turkey: Geochronology, geochemistry and isotope systematics**  
AYSAL N., Ustaomer T., Ongen S., Keskin M., KÖKSAL S., Peytcheva I., Fanning M.  
JOURNAL OF ASIAN EARTH SCIENCES, vol.45, pp.201-222, 2012 (SCI-Expanded)
- XVI. **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)
- XVII. **Zircon typologies and internal structures as petrogenetic indicators in contrasting granitoid types from Central Anatolia**  
Köksal S., Göncüoğlu M. C., Toksoy-Köksal F., Möller A., Kemnitz H.  
Mineralogy And Petrology, vol.93, pp.185-211, 2008 (SCI-Expanded)
- XVIII. **Sr and Nd isotopic characteristics of some S-, I- and A-type granitoids from Central Anatolia**  
KÖKSAL S., GÖNCÜOĞLU M. C.  
TURKISH JOURNAL OF EARTH SCIENCES, vol.17, no.1, pp.111-127, 2008 (SCI-Expanded)
- XIX. **Timing of Post collisional H type to A type Granitic Magmatism U Pb Titanite Ages from the Alpine Central Anatolian Granitoids Turkey**  
Köksal S., Romer R. L., Mehmet Cemal G., Toksoy-Köksal F.  
International Journal Of Earth Sciences, vol.93, pp.974-989, 2004 (SCI-Expanded)
- XX. **Extrusive members of postcollisional A-type magmatism in Central Anatolia: Karahidir Volcanics, İdis Dağı-Avanos Area, Turkey**  
Köksal S., Goncuoglu M., Floyd P.  
INTERNATIONAL GEOLOGY REVIEW, vol.43, no.8, pp.683-694, 2001 (SCI-Expanded)
- XXI. **Post-Collisional A-Type Magmatism in the Central Anatolian Crystalline Complex: Petrology of the İdiş Dağı Intrusives (Avanos, Turkey)**  
Goncuoglu M. C., KÖKSAL S., Floyd P. A.  
Turkish Journal Of Earth Sciences, vol.6, no.2, pp.65-76, 1997 (SCI-Expanded)

### 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 İdis 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)

### 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. **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**

GÜRSU S., KÖKSAL S., MÖLLER A.

GEOBONN2018, Bonn, Germany, 2 - 06 September 2018, pp.59-60

- III. **Andrean-type Late Neoproterozoic subalkaline magmatism in southern Turkey: Evidence for an active continental margin in the Peri-Gondwanan Realm**  
GÜRSU S., KÖKSAL S., MÖLLER A., GÖNCÜOĞLU M. C.  
3rd European Mantle Workshop, Pavia, Italy, 26 - 28 June 2018, pp.63
- IV. **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?**  
GÜRSU S., KÖKSAL S., MÖLLER A.  
GEOBONN2018, Bonn, Germany, 2 - 06 September 2018, pp.60
- V. **From magmatic arc to post-collisional back-arc setting in the Tauride-Anatolide Platform (TAP): Overview of the Cadomian basement rocks in Turkey**  
GÜRSU S., Goncuoglu M. C., KÖKSAL S., MÖLLER A.  
Geological Society of America 2017, Seattle, United States Of America, 22 - 25 October 2017, vol.49
- VI. **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
- VII. **Re evaluation of the petrological features of the Ekecikdag oceanic plagiogranites in Central Anatolia Turkey**  
KÖKSAL S., MEHMET CEMAL G., KÖKSAL F.  
TECTONIC CROSSROADS: EVOLVING OROGENS OF EURASIA-AFRICA-ARABIA, 4 - 08 October 2010
- VIII. **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
- IX. **Re-evaluation of the petrological features of the Ekecikdağ Plagiogranites in Central Anatolia/Turkey**  
Köksal S., Göncüoğlu M. C., Toksoy-Köksal F.  
Symposium of Geological Society of America, Tectonic Crossroads: Evolving Orogens of Eurasia-Africa-Arabia, Ankara, Turkey, 4 - 08 October 2010, pp.83
- X. **Sr, Nd, Hf isotopic signatures and LA-SF-ICP-MS U-Pb zircon ages from Satansarı Granitoid (Aksaray), Central Anatolian Crystalline Complex**  
Göncüoğlu M. C., Köksal S., Frei D., Toksoy-Köksal F., Möller A., Gerdes A.  
63rd Geological Congress of Turkey, Ankara, Turkey, 22 - 25 March 2010, pp.144-145
- XI. **U Pb age and isotope data from the S and I type syn collisional granites in the Ekecikdag area central Anatolia**  
TOKSOY KÖKSAL F., GERDES A., GÖNCÜOĞLU M. C., MÖLLER A., FREI D., KÖKSAL S.  
Goldschmidt 2009, 24 - 28 June 2009
- XII. **U-Pb age and isotope data from the S- and I-type syn-collisional granites in the Ekecikdag area, central Anatolia**  
KÖKSAL F., Gerdes A., GÖNCÜOĞLU M. C., Moller A., Frei D., KÖKSAL S.  
19th Annual VM Goldschmidt Conference, Davos, Switzerland, 21 June 2009, vol.73
- XIII. **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)**  
Köksal S., Möller A., Göncüoğlu M. C., Frei D., Gerdes A., Toksoy-Köksal F.  
62nd Geological Congress of Turkey, Ankara, Turkey, 13 - 17 April 2009, pp.600-601
- XIV. **An Approach to the Central Anatolian (Avanos) Late Mesozoic Magmatism: Petrology of Cogenetic Granitic and Volcanic Rocks.**  
Toksoy-Köksal F., Köksal S., Göncüoğlu M. C., Romer R. L.

- 61th Geological Congress of Turkey, Ankara, Turkey, 24 - 28 March 2008, pp.247-248
- XV. **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.  
Goldschmidt 2007, 17 - 21 June 2007
- XVI. **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.  
Goldschmidt 2007, Cologne, Germany, 19 - 24 August 2007, pp.505
- XVII. **Petrological characteristics and LA-SF-ICP-MS U-Pb ages of S-type Granitoids from Central Turkey**  
Köksal S., Moeller A., Frei D., Goncuoglu M. C., Toksoy-Köksal F.  
17th Annual V M Goldschmidt Conference, Cologne, Germany, 01 August 2007, vol.71
- XVIII. **Comparison of Zircon/Apatite Geothermometry Methods and Zircon Typology Data of the Central Anatolian Granitoids**  
Köksal S., Gürsu S., Toksoy-Köksal F., Göncüoğlu M. C.  
60th Geological Congress of Turkey, Ankara, Turkey, 20 - 24 March 2007, pp.250-255
- XIX. **Zircon Growth in Distinct Granitoid Types: Examples from Central Anatolian Granitoids**  
Köksal S., Toksoy-Köksal F., Göncüoğlu M. C.  
59th Geological Congress of Turkey, Ankara, Turkey, 20 March - 24 May 2006, pp.271-272
- XX. **Tracing magmatic history from zircons of the S- and H-type granitoids in the Ekecikdağ Intrusive Suite (central Anatolia, Turkey).**  
Toksoy-Köksal F., Köksal S., Göncüoğlu M. C., Möller A.  
International Earth Sciences Colloquium on the Aegean region, İzmir, Turkey, 4 - 07 October 2005, pp.71-72
- XXI. **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.  
1. Ulusal Jeokimya Sempozyumu, Turkey, 18 - 21 November 2004
- XXII. **The geological and petrographical characteristics of the magmatic rocks and their contact zones in the Hacimahmutusagi (Ortaköy-Aksaray) area, Central Anatolian Crystalline Complex, Turkey.**  
Köksal S., Göncüoğlu M. C., Toksoy-Köksal F.  
4th International Turkish Geology Symposium (ITGS IV), Adana, Turkey, 24 - 28 September 2001, pp.216

## Expert Reports

- I. **Orta Anadolu Masifinin orta bölümünün jeolojisi Bolum 3 Orta Kızılırmak Tersiyer Basenininjeolojik evrimi**  
MEHMET CEMAL G., YALINIZ M. K., İLKAY K., KÖKSAL S., DİRİK R. K.  
1993

## Supported Projects

- TOKSOY KÖKSAL F., BİLGİN E. D., KÖKSAL S., Project Supported by Higher Education Institutions, Ankara Güneyi ve Kuzeydoğusu'ndaki Ankara Ofiyolitik Melanjı'nın Okyanusal Litosferik Birimlerinin Petrolojik İlişkilerine Mineral Kimyası ile Işık Tutulması, 2016 - Continues
- PİŞKİN E., SÜER S., KÖKSAL S., Project Supported by Higher Education Institutions, Orta Karadeniz'de Yaylacılık, 2017 - 2024
- Köksal S., Gürsu S., TUBITAK Project, Investigation of the Early Cambrian detrital source regions of North Gondwana (Tauride-Anatolite Platform and Southeast Anatolian Autochthone) by zircon geochronology method, 2019 - 2021
- AKATA KURÇ B., ÇAM İ., BEHLÜLGİL A. K., KÖKSAL S., GÜZEL A., Project Supported by Higher Education Institutions, Merkez Laboratuvar ARGE Eğitim ve Ölçme Merkezinde Malzeme Karakterizasyonu, 2017 - 2019
- ÖZKAN N., BEHLÜLGİL A. K., KÖKSAL S., GÜZEL A., Project Supported by Higher Education Institutions, Merkez

Kaboratuvar AR-GE Eđitim ve lme Merkezinde Malzeme Karakterizasyonu, 2014 - 2016

ZKAN N., AM İ., BEHLLGİL A. K., KKSAL S., GZEL A., Project Supported by Higher Education Institutions, Ar-Ge

Eđitim Ve lme Merkezinde Malzeme Karekterizasyonu, 2011 - 2013

## **Metrics**

Publication: 46

Citation (WoS): 438

Citation (Scopus): 320

H-Index (WoS): 10

H-Index (Scopus): 9

## **Non Academic Experience**

ENERJİ VE TABİİ KAYNAKLAR BAKANLIđI

İLLER BANKASI GENEL MDRLđ

ENERJİ VE TABİİ KAYNAKLAR BAKANLIđI