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International Researcher IDs

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Publons / Web Of Science ResearcherID: I-8302-2017

Yoksis Researcher ID: 127764

Education Information

Doctorate, Akdeniz University, Faculty Of Engineering, Jeoloji Mühendisliği, Turkey 2009 - 2015

Undergraduate, Anadolu University, Open Education Faculty, Department Of Economics And Administrative Programs, Turkey 2009 - 2014

Postgraduate, Akdeniz University, Faculty Of Engineering, Jeoloji Mühendisliği, Turkey 2007 - 2009

Undergraduate, Akdeniz University, Faculty Of Engineering, Jeoloji Mühendisliği, Turkey 2002 - 2006

Dissertations

Doctorate, Yaylaköy, Kalemköy Ve Eynez (Soma) Neojen Kömürlerinin Biyomarker Jeokimyası, Ana-İz Element Özellikleri ile Organik Fasiyes Değişimleri, Akdeniz University, Faculty of Engineering, Jeoloji Mühendisliği, 2015

Postgraduate, Korkuteli-Bozova-Garipçe (Antalya) Yöresi Otokton Mesozoyik Çökellerinin Organofasiyes Özellikleri , Akdeniz University, Faculty of Engineering, Jeoloji Mühendisliği, 2009

Research Areas

Geological Engineering, Ore Deposits-Geochemistry, Energy Resources, Coal Geology, Petroleum Geology, Geochemistry (Organic and Inorganic, Engineering and Technology)

Academic Titles / Tasks

Associate Professor, Akdeniz University, Faculty Of Engineering, Department Of Geological Engineering, 2025 - Continues

Assistant Professor, Akdeniz University, Faculty Of Engineering, Department Of Geological Engineering, 2023 - 2025

Lecturer PhD, Akdeniz University, Faculty of Engineering, Department of Geological Engineering, 2018 - 2023

Expert, Akdeniz University, Faculty of Engineering, Department of Geological Engineering, 2017 - 2018

Research Assistant, Akdeniz University, Faculty of Engineering, Department of Geological Engineering, 2007 - 2015

Courses

Uzmanlık Alan Dersi, Postgraduate, 2024 - 2025, 2023 - 2024
Petroleum Geology, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022
Hidrokarbon Aramalarında Organik Jeokimyasal Yöntemler, Postgraduate, 2024 - 2025, 2023 - 2024
Danışmanlık, Postgraduate, 2024 - 2025, 2023 - 2024
Bitirme Semineri, Undergraduate, 2023 - 2024, 2021 - 2022
Kömür Jeolojisi, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Jeotermal Enerji, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Bitümlü Şeyl Jeolojisi, Undergraduate, 2023 - 2024, 2021 - 2022
Bitirme Projesi, Undergraduate, 2021 - 2022, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Paleoenvironmental Reconstruction and Hydrocarbon Potential of the Westphalian-A Kozlu Formation Hard Coal in the Zonguldak Basin: Insights from Organic Geochemistry and Petrology**
Ünal-Kartal N., KARADİREK S.
Minerals, vol.14, no.10, 2024 (SCI-Expanded)
- II. **Radioactivity characteristics of lignite and hard coals: Case study of Zonguldak (Kozlu), Konya (Karapınar) and Antalya (Pamucakyayla) in Türkiye**
Özmen S. F., Güllüdağ C. B., Karadirek S., Aksoy E.
Nukleonika, vol.69, no.2, pp.99-105, 2024 (SCI-Expanded)
- III. **Paleoenvironmental Settings of the Soma Coal Basin (Turkey): Insights from Maceral Data, Biomarker, and Carbon Isotopic Composition**
KARADİREK S.
ACS Omega, vol.8, no.50, pp.47974-47990, 2023 (SCI-Expanded)
- IV. **Geochemical characteristics and paleodepositional setting of coal-bearing strata in Konya-Karapınar Basin, Central Anatolia, Turkey**
Karadirek S., Altunsoy M.
Journal Of African Earth Sciences, vol.186, pp.1-13, 2022 (SCI-Expanded)
- V. **The application of different optimization techniques and Artificial Neural Networks (ANN) for coal-consumption forecasting: a case study Zastosowanie różnych technik optymalizacji i sztucznych sieci neuronowych (SSN) do prognozowania zużycia węgla: studium przypadku**
ŞEKER M., Unal Kartal N., KARADİREK S., GÜLLÜDAĞ C. B.
Gospodarka Surowcami Mineralnymi / Mineral Resources Management, vol.38, no.2, pp.77-112, 2022 (SCI-Expanded)
- VI. **Environmental Aspects and Coal Quality Parameters of Soma, Karapınar and Sahinali Coals in Turkey**
KARADİREK S., ÖZÇELİK O., ALTUNSOY M.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.28, no.2, pp.873-878, 2019 (SCI-Expanded)
- VII. **Organic Geochemical Characteristics and Depositional Environment of the Soma-Eynez (Manisa) Coals, Western Anatolia, Turkey**
Karadirek S., Özçelik O.
ENERGY & FUELS, vol.33, no.2, pp.677-690, 2019 (SCI-Expanded)
- VIII. **Major and trace-element enrichments in the Karapınar coals (Konya, Turkey)**
ALTUNSOY M., SARI A., ÖZÇELİK O., Engin H., Hokerek S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.1, pp.88-99, 2016 (SCI-Expanded)
- IX. **Geochemical characteristics of major and trace elements in Sahinali Coals, Aydin, Turkey**
ÖZÇELİK O., Pehlivanlı B. Y., SARI A., ALTUNSOY M., Hökerek S., Unal N.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.38, no.10, pp.1435-1447, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **FUTURE PROSPECTS OF RARE EARTH ELEMENTS IN COAL AND COAL ASH: BASED ON MAPPING OF GLOBAL RESEARCH (1973-2023)**
KARADİREK S.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.12, no.2, pp.430-442, 2024 (Peer-Reviewed Journal)
- II. **MINERALOGY AND GEOCHEMISTRY OF COAL-BEARING TUNÇBİLEK FORMATION IN THE TUNÇBİLEK-TAVŞANLI COALFIELD (KÜTAHYA, W-TURKEY)**
KARADİREK S.
Journal of scientific reports-A (Online), no.052, pp.65-98, 2023 (Peer-Reviewed Journal)
- III. **Biomarker Characteristics of Triassic Kasımlar Formation; Akseki-Anamas Platform, Western Taurus, Turkey**
ÖZÇELİK O., ALTUNSOY M., Yalçın Erik N., KARADİREK S., ÜNAL N.
Journal of Scientific and Engineering Research, vol.4, no.6, pp.141-147, 2017 (Peer-Reviewed Journal)
- IV. **Organic Facies Characteristics of the Triassic Ispartacay Formation, Antalya Nappes, Western Taurus, Turkey**
Özçelik O., Altunsoy M., Karadirek S., Ünal N., Kuşcu M.
Procedia Earth and Planetary Science, vol.15, pp.225-230, 2015 (Scopus)
- V. **Organic facies characteristics of the Miocene Soma Formation(Lower Lignite Succession-KM2), Soma Coal Basin, western Turkey**
Hökerek S., Özçelik O.
ENERGY PROCEDIA, vol.76, pp.27-32, 2015 (Scopus)
- VI. **Organic facies characteristics of the Triassic Kasımlar Formation, Anamas-Akseki Platform, western Taurides, Turkey**
Karadirek S., Ünal N., Altunsoy M., Özçelik O., Kuşcu M.
ENERGY PROCEDIA, vol.59, pp.150-157, 2014 (Scopus)
- VII. **The Biomarker Properties and Comparisons of Sahinali, Beypazarı and Karapınar (Turkey) Coaly Plio-Miocene Depositions**
Ünal N., Karadirek S., Özçelik O., Altunsoy M., Yalçın Erik N.
ENERGY PROCEDIA, vol.59, pp.142-149, 2014 (Scopus)
- VIII. **Organic facies of the Beydağlar carbonate platform (Mesozoic), Western Taurus, Antalya, Turkey**
Karadirek S., Özçelik O.
Scientific Research and Essays, vol.7, no.3, pp.327-337, 2012 (Peer-Reviewed Journal)
- IX. **Hotamış Formasyonu (Pliyosen) çökellerinin organik fasiyes özellikleri, Karapınar (Konya)**
ALTUNSOY M., ÖZÇELİK O., HÖKEREK S., Yalçın Erik N., Taka M., Acar F.
Cumhuriyet Yer Bilimleri Dergisi, vol.28, pp.77-86, 2011 (Peer-Reviewed Journal)

Books

- I. **ENERJİ KAYNAKLARINDAN KÖMÜRÜN ÇEVRESEL ETKİLERİNE YÖNELİK BİR YAKLAŞIM: ÇKKV METOTLARININ KÖMÜR MADENCİLİĞİNDE KULLANIMI**
GÜLLÜDAĞ C. B., KARADİREK S.
in: TEKNOBİLİM-2022: Enerji Krizi ve Yenilenebilir Enerji, Ceren KARAMAN, Editor, Efe Akademi Yayınları, pp.95-110, 2022
- II. **FOSİL KÖKENLİ ENERJİ KAYNAKLARINDA BİYOMARKER ÇALIŞMALARININ ÖNEMİ**
KARADİREK S., GÜLLÜDAĞ C. B., ALTUNSOY M.
in: TEKNOBİLİM-2022: Enerji Krizi ve Yenilenebilir Enerji, Ceren KARAMAN, Editor, Efe Akademi Yayınları, pp.73-94, 2022
- III. **Anthropogenic and Natural Sources of Air Pollutants and Studies on Their Detection By UAV**

AKSOY E., GÜLLÜDAĞ C. B., KARADİREK S.

in: SCIENTIFIC STUDIES IN THE PERSPECTIVE OF ENERGY AND ENVIRONMENT, Afşin Güngör, Ali Özhan Akyüz, Kazım Kumaş, Editor, Akademisyen Kitabevi, Ankara, pp.35-52, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Radioactivity Characteristics of Turkey Coals: Case Study of Zonguldak, Konya and Antalya**
ÖZMEN S. F., GÜLLÜDAĞ C. B., KARADİREK S., AKSOY E.
International Conference on Development and Applications of Nuclear Technologies NUTECH-2023, Krakow, Poland, 20 - 22 September 2023
- II. **Distribution of Major-Trace Elements in Coal and Coal Ash of Şarkikaraağaç, Isparta, Turkey**
Ünal Kartal N., Karadirek S., Özçelik O., Yılmaz A.
VII. INSAC International Congress on Natural and Engineering Sciences, Konya, Turkey, 21 - 23 October 2021, pp.137-138
- III. **Development of Data Mining in Earth Sciences, Its Area of Utilizations and Importance in Geochemistry**
KARADİREK S., Ünal N., Okatan E.
5 th International Mediterranean Science and Engineering Congress, Antalya, Turkey, 21 - 23 October 2020, pp.561
- IV. **Enrichment of REEs in lignite deposits: A case study of Western Anatolian Region, Turkey**
KARADİREK S.
The 2nd International Symposium of Engineering Applications on Civil Engineering and Earth Sciences 2020 (IEACES2020), Karabük, Turkey, 23 - 25 September 2020, pp.296-303
- V. **Organic Geochemical Characteristics of Some Mineable Seams in Westphalian Hard Coal Deposits From Zonguldak, Northwest, Turkey**
KARADİREK S., ÖZÇELİK O., ÜNAL N., ALTUNSOY M., BİLGİÇ A.
4th International Conference on Civil Environmental, Geology and Mining Engineering, Trabzon, Turkey, 20 - 22 April 2019, vol.1, pp.956
- VI. **Organic Geochemical characteristics of Hırka Formation from Beypazarı Basin (Central Anatolia/Turkey): Evaluation of hydrocarbon potential and paleoenvironmental conditions**
KARADİREK S., ÖZÇELİK O., ALTUNSOY M.
9th International Symposium of Eastern Mediterranean Geology, Antalya, Turkey, 7 - 11 May 2018, pp.285-292
- VII. **Environmental aspects of coal quality parameters and underground coal gasification: A Case Study of Some Coal Basins of Turkey**
KARADİREK S., ÖZÇELİK O., ALTUNSOY M.
19th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region (MESAEP2017), Roma, Italy, 4 - 06 October 2017, pp.119
- VIII. **Potential Health and Environmental Effects of Trace Elements in Karapınar (Turkey) Coals**
KARADİREK S., ÜNAL N., ÖZÇELİK O., ALTUNSOY M.
1 th International Conference on advances in Engineering Sciences 2017 (ICAES 2017), Phuket, Thailand, 3 - 05 July 2017, vol.1, pp.25
- IX. **Comparison of Organic Facies Properties of Miocene Coal/Coaly Rocks from Soma (Manisa) and Şahinali (Aydın) Basins (Turkey)**
ÖZÇELİK O., KARADİREK S., ALTUNSOY M., ÜNAL N.
1 th International Conference on advances in Engineering Sciences 2017 (ICAES 2017), Phuket, Thailand, 3 - 05 July 2017, vol.1, pp.40
- X. **Organic Geochemistry of Lower Miocene Coaly Units: Example of the Soma Formation, Manisa, Turkey**
KARADİREK S., ÖZÇELİK O.
Goldschmidt 2016, Yokohama, Japan, 26 June - 01 July 2016, pp.1145
- XI. **TRACE AND RARE EARTH ELEMENT GEOCHEMISTRY OF SHALES IN THE LATE TRIASSIC ISPARTACAY**

FORMATION, ANTALYA NAPPES, WESTERN TAURIDS, TURKEY

Kuscu M., Ozsoy H. R., ÖZÇELİK O., ALTUNSOY M., Hokerek S.

16th International Multidisciplinary Scientific Geoconference (SGEM 2016), Albena, Bulgaria, 30 June - 06 July 2016, pp.657-664

- XII. **The Environmentally Significant Element Contents of Eyzek-KM2 Coals in Western Anatolia, Turkey**
HÖKEREK S., ÖZÇELİK O.
World Mutidisciplinary Earth Science, WMESS2015, Prag, Czech Republic, 7 - 11 September 2015, vol.1, pp.268
- XIII. **Organic Facies Characteristics of the Triassic Ispartacay Formation, Antalya Nappes, Western Taurus, Turkey**
ÖZÇELİK O., ALTUNSOY M., Hokerek S., Unal N., Kuscu M.
1st World Multidisciplinary Earth Sciences Symposium (WMESS), Prague, Czech Republic, 7 - 11 September 2015, vol.15, pp.225-230
- XIV. **Organic facies characteristics of the Miocene Soma Formation (Lower Lignite Succession-KM2), Soma Coal Basin, western Turkey**
Hokerek S., ÖZÇELİK O.
European Geosciences Union General Assembly 2015 - Division Energy, Resources and Environment, (EGU), Vienna, Austria, 12 - 17 April 2015, vol.76, pp.27-32
- XV. **Biomarker Characteristics of Triassic Kasımlar Formation; Akseki-Anamas Platform, Western Taurus, Turkey**
Özçelik O., Altunsoy M., Yalçın Erik N., Hökerek S., Ünal N., Kuşcu M.
Goldschmidt 2014, California, United States Of America, 7 - 13 June 2014, pp.1886
- XVI. **Miyosen Yaşlı Şahinali (Aydın) ve Beypazarı (Ankara) Kömürlü Birimlerinin Biyomarker Özelliklerinin Karşılaştırılması**
ÜNAL N., HÖKEREK S., ALTUNSOY M., ÖZÇELİK O., YALÇIN ERİK N.
6. Jeokimya Sempozyumu, Mersin, Turkey, 14 - 17 May 2014, pp.270
- XVII. **The biomarker properties and comparisons of Sahinali, Beypazarı and Karapınar (Turkey) coaly Plio-Miocene depositions**
Unal N., Hokerek S., ALTUNSOY M., ÖZÇELİK O., YALÇIN ERİK N.
General Assembly of the EGU Division on Energy, Resources and the Environment (ERE), Vienna, Austria, 27 April - 02 May 2014, vol.59, pp.142-149
- XVIII. **Organic facies characteristics of the Triassic Kasımlar Formation, Ananias-Akseki Platform, western Taurides, Turkey**
Hokerek S., Unal N., ALTUNSOY M., ÖZÇELİK O., Kuscu M.
General Assembly of the EGU Division on Energy, Resources and the Environment (ERE), Vienna, Austria, 27 April - 02 May 2014, vol.59, pp.150-157
- XIX. **Karapınar (Konya) Kömürlerinde Element Zenginleşmelerine Bağlı Olarak Oluşabilecek Çevresel Etkilere Genel Yaklaşımlar**
HÖKEREK S., ÜNAL N., ALTUNSOY M., ÖZÇELİK O.
2. Tıbbi Jeoloj Çalıştayı, Antalya, Turkey, 4 - 06 December 2013, pp.241-252
- XX. **Organic geochemical characteristics of the coaly Miocene units in the Şahinali (Aydın) region, Büyük Menderes Graben, Turkey**
ÖZÇELİK O., ALTUNSOY M., HÖKEREK S., ÜNAL N., Yalçın Erik N.
Goldschmidt 2013, Florence, Italy, 25 - 30 August 2013, pp.1906
- XXI. **Organic facies variation from well data on the bituminous Miocene units, Northwestern Anatolia (Sevinç/Ağapınar-Eskişehir), Turkey**
ALTUNSOY M., Şengüler İ., ÜNAL N., HÖKEREK S., ÖZÇELİK O.
Goldschmidt 2013, Florence, Italy, 25 - 30 August 2013, pp.582
- XXII. **ORGANIC GEOCHEMICAL CHARACTERISTICS OF THE BITUMINOUS MIOCENE UNITS IN THE SEVINÇ-AGAPINAR REGION, ESKİŞEHİR GRABEN, TURKEY**
Altunsoy M., Şengüler İ., Hokerek S., Unal N., Özçelik O.
13th International Multidisciplinary Scientific Geoconference, SGEM 2013, Albena, Bulgaria, 16 - 22 June 2013,

- pp.149-150
- XXIII. **ORGANIC FACIES VARIATION FROM WELL DATA ON THE COALY MIOCENE UNITS, THE WESTERN PART OF TURKEY (SAHINALI-AYDIN)**
Özçelik O., Unal N., Hokerek S., Altunsoy M.
13th International Multidisciplinary Scientific Geoconference, SGEM 2013, Albena, Bulgaria, 16 - 22 June 2013, pp.141-148
- XXIV. **Karapınar (Konya) Güneyindeki Kömürlü Pliyosen Birimlerinin Organik Fasiyes Özellikleri**
ALTUNSOY M., ÖZÇELİK O., HÖKEREK S., ÜNAL N., Taka M.
30.Yıl Sempozyumu, Sivas, Turkey, 11 - 13 October 2012, pp.53-54
- XXV. **Kömürlü Miyosen Birimlerinin Kuyu Verilerine Göre Organik Fasiyes Değişimleri, (Şahinali-Aydın)**
ÖZÇELİK O., ALTUNSOY M., HÖKEREK S., ÜNAL N.
30.Yıl Sempozyumu, Sivas, Turkey, 11 - 13 October 2012, pp.51-52
- XXVI. **Bozova (Antalya-Türkiye) Yöresi Mesozoyik Karbonat Birimlerinin Organik Petrografik ve Jeokimyasal Özellikleri**
HÖKEREK S., ÖZÇELİK O.
V. Jeokimya Sempozyumu, Denizli, Turkey, 23 - 25 May 2012, pp.202-203
- XXVII. **ORGANIC GEOCHEMICAL CHARACTERISTICS OF THE COALY PLIOCENE UNITS FROM WELL-KK 241 DATA, THE CENTRAL PART OF TURKEY (KAVUKLAR/AYRACI-KONYA)**
ÖZÇELİK O., ALTUNSOY M., Hokerek S., Ozdemir H.
12h International Multidisciplinary Scientific Geoconference (SGEM), Albena, Bulgaria, 17 - 23 June 2012, pp.181-183
- XXVIII. **The Coalification Process and Use of Biomarker Data in The Determination of Paleoenvironmental Characteristics; Karapınar Coals (Konya,Turkey)**
ÖZÇELİK O., ALTUNSOY M., HÖKEREK S., Yalçın Erik N., Taka M., Acar F.
18th International Petroleum and Natural Gas Congress and Exhibition of Turkey (IPETGAS 2011), Ankara, Turkey, 11 - 13 May 2011, pp.108-109
- XXIX. **ORGANIC FACIES VARIATION FROM WELL DATA ON THE COALY PLIOCENE UNITS, THE CENTRAL PART OF TURKEY (KARAPINAR-KONYA)**
ÖZÇELİK O., Tüze Z., ALTUNSOY M., Hokerek S., Erik N. Y., Taka M., Acar F.
11th International Multidisciplinary Scientific GeoConference, Albena, Bulgaria, 20 - 25 June 2011, pp.193-196
- XXX. **Korkuteli (Antalya) Kuzeyi Mesozoyik Otokton Çökellerinin Organofasiyes Özellikleri.**
HÖKEREK S., ÖZÇELİK O.
63.Türkiye Jeoloji Kurultayı, Ankara, Turkey, 5 - 10 April 2010, pp.157-158

Supported Projects

KARADİREK S., Project Supported by Higher Education Institutions, Tunçbilek (Tavşanlı-Kütahya) FC Pano Açık İşletme Sahası Kömürlü Birimlerinin Ana-İz Element Dağılımı, 2019 - 2022

KARADİREK S., ÖZÇELİK O., ÜNAL N., Project Supported by Higher Education Institutions, Miyosen Yaşlı Manisa-Soma Kömür Havzasındaki Alt-Orta-Üst kömür damarında Doymuş-Aromatik Biyomarker Dağılımlarından Yararlanılarak Paleortam Özelliklerinin ve Olgunlaşma Düzeylerinin Belirlenmesi, 2019 - 2021

ÖZÇELİK O., ALTUNSOY M., KARADİREK S., ÜNAL N., Bilgiç A., Project Supported by Higher Education Institutions, Kozlu Formasyonu'nun (Vestafaliyen-A) Acılık, Domuzcu ve Büyük Damarları'na ait Taşkömürleri'nin (Zonguldak) Steran ve Terpan Hidrokarbonlar Açısından Değerlendirilmesi, 2018 - 2020

Özçelik O., Karadirek S., Project Supported by Higher Education Institutions, Yaylaköy, Kalemköy ve Eynez (Soma) Neojen Kömürlerinin Biyomarker Jeokimyası, Ana-İz Element Özellikleri ile Organik Fasiyes Değişimleri, 2013 - 2015

Altunsoy M., Özçelik O., Kuşçu M., Karadirek S., Project Supported by Higher Education Institutions, Triyas Yaşlı Kasımlar Formasyonu (Aksu-Sütçüler/Isparta) bitümlü birimlerinin organik fasiyes özellikleri ve iz element dağılımları, 2012 - 2015

Özçelik O., Karadirek S., Altunsoy M., Acar F., Project Supported by Higher Education Institutions, Şahinali (Aydın)

Miyosen kömürlü birimlerinin organik fasiyes özellikleri, 2011 - 2013

Altunsoy M., Özçelik O., Karadirek S., Taka M., Project Supported by Higher Education Institutions, Karapınar (Konya)

güneyindeki kömürlü Pliyosen birimlerinin organik fasiyes özellikleri, 2010 - 2011

Özçelik O., Karadirek S., Project Supported by Higher Education Institutions, Korkuteli-Bozova-Garipçe (Antalya) Yöresi

Otokton Mesozoyik Çökellerinin Organofasiyes Özellikleri, 2008 - 2009

Metrics

Publication: 51

Citation (WoS): 28

Citation (Scopus): 32

H-Index (WoS): 3

H-Index (Scopus): 3

Non Academic Experience

Akdeniz Üniversitesi, Araştırma Görevlisi