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Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Jeoloji Mühendisliği (Dr), Turkey 1998 - 2002

Research Areas

General Geology, Geoarcheology, Sedimentology, Stratigraphy, Geology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Geological Engineering, 2017 - Continues

Academic and Administrative Experience

Middle East Technical University, Graduate School of Natural and Applied Sciences, Yer Sistemi Bilimleri Anabilim Dalı, 2011 - Continues

Supervised Theses

YILMAZ İ. Ö., Source rock characterization of the shales and mudstones of the campanian–maastrichtian Haymana formation, Haymana basin, Central Anatolia, Turkey, Doctorate, L.TAYLAN(Student), 2022

YILMAZ İ. Ö., Sedimentological and cyclostratigraphic analysis of the Çakrazboz formation (TRIASSIC) in Amasra-Kastamonu region, Doctorate, G.ŞEN(Student), 2021

YILMAZ İ. Ö., Cenomanian–turonian platform evolution and records of OAE 2 on the drowned northern arabian carbonate platform (se Turkey): Integration of biostratigraphy, sequence stratigraphy, sedimentology, and stable isotopes, Doctorate, O.Mülayim(Student), 2020

YILMAZ İ. Ö., Reservoir heterogeneity, sedimentology, and diagenesis of ordovician bedinan formation, southern diyarbakir basin, se turkey: paleogeographic implications, Postgraduate, G.Yıldız(Student), 2019

Yılmaz İ. Ö., Sedimentology, cyclostratigraphy, sequence stratigraphy and geochemistry of the middle eocene lacustrine-marine oil-shales transition, Mudurnu Göynük basin, NW Anatolia, Turkey, Doctorate, B.ZAMIR(Student), 2019

YILMAZ İ. Ö., Microfacies analysis of upper devonian - lower carboniferous shallow water carbonates of the yilanli formation in Zonguldak area, North Western, Turkey, Postgraduate, N.AHMED(Student), 2016

YILMAZ İ. Ö., Stratigraphical, sedimentological, geochemical and cyclostratigraphical analyses of upper cretaceous (Upper santonian- campanian) pelagic successions of haymana and Mudurnu-Göynük basins of the Sakarya continent, Turkey, Postgraduate, B.ZAMIR(Student), 2014

AKINOĞLU B. G., YILMAZ İ. Ö., Analysis of sunshine duration between 1970 and 2010 for Turkey, Postgraduate, U.YILDIRIM(Student), 2013

YILMAZ İ. Ö., Sedimentary petrographic properties and porosity distribution of the karababa-c member in the vicinity of the Bati Gökçe and Gölgeci oil fields, Adiyaman, se Turkey, Postgraduate, M.SOYTÜRK(Student), 2013

YILMAZ İ. Ö., GÜNAL TÜRKMEÑOĞLU A., Sedimentological, cyclostratigraphic analysis and reservoir characterization of Balakhany x formation within the productive series Azeri field on C01 well (Offshore Azerbaijan), Postgraduate, E.BİNYATOV(Student), 2008

YILMAZ İ. Ö., Sedimentological and cyclostratigraphic analysis of upper part of the Kartal formation (South West of Ankara), Postgraduate, R.AGHAYEV(Student), 2008

YILMAZ İ. Ö., Sedimentological and cyclostratigraphic analysis of upper part of the kartal formation (sw of Ankara), Postgraduate, R.Aghayev(Student), 2008

YILMAZ İ. Ö., Sedimentology and stratigraphy of Türbeyanı marl sequences and İnpiri limestones (late barremian-albian): Implications for possible source and reservoir rocks (NW Turkey), Postgraduate, A.NABİYEY(Student), 2007

YILMAZ İ. Ö., Sedimentological, cyclostratigraphical and sequence stratigraphical analysis of cretaceous Üzümlü formation (NW Turkey), Postgraduate, S.Yiğit(Student), 2007

YILMAZ İ. Ö., Sedimentological, cyclostratigraphical and sequence stratigraphical analysis of cretaceous üzümlü formation (Northwest Turkey), Postgraduate, S.YİĞİT(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **K-Pg transition in neritic limestones: Deciphering the first bio/chemo-stratigraphic records and tectono-sedimentary evolution, eastern Neotethys (NE Türkiye)**
Köroğlu F., SARI B., KANDEMİR R., YILMAZ İ. Ö., Özer S.
Journal of African Earth Sciences, vol.224, 2025 (SCI-Expanded)
- II. **Integrated fracture analysis for improved oil recovery in the reefal limestones of Soğucak formation, Northwest Thrace Basin, Türkiye**
Karaca E., YILMAZ İ. Ö., ÇİFCİ G., Tortopoğlu B., AKIN S.
Marine and Petroleum Geology, vol.171, 2025 (SCI-Expanded)
- III. **Source-rock and petrophysical evaluation of the Late Cretaceous Haymana Formation, Haymana Basin, Central Anatolia, Turkey**
Yildirim L. T. O., YILMAZ İ. Ö., SINAYUÇ Ç., Yildirim E. C.
Petroleum Geoscience, vol.30, no.4, 2024 (SCI-Expanded)
- IV. **Assessment of rarity and ecological preferences of the non-marine ostracods (Crustacea) in Çanakkale Province (Türkiye)**
Yavuzatmaca M., Külköylüoğlu O., Ataman A., Ayteğin A., YILMAZ İ. Ö.
Aquatic Sciences, vol.86, no.3, 2024 (SCI-Expanded)
- V. **The heterobranch subgenus Trochactaeon (Trochactaeon) in the Campanian (Late Cretaceous) of the northern Arabian Platform and its paleoenvironmental and paleobiogeographic implications**
Hoşgör I., Yılmaz İ. Ö., Özer S.
Journal of Paleontology, vol.97, no.4, pp.853-864, 2023 (SCI-Expanded)
- VI. **Pithonellid calcitarch record in the middle? Cenomanian Dardere-A Member, SE Turkey:**

palaeoenvironmental changes and stratigraphic significance

Mülayim O., YILMAZ İ. Ö., Ferré B.

Turkish Journal of Earth Sciences, vol.32, no.1, pp.63-74, 2023 (SCI-Expanded)

- VII. **New marine vertebrates (elasmobranchs, actinopterygians, reptiles) from the Upper Cretaceous Arabic Platform of SE Turkey**
Bardet N., Guinot G., YILMAZ İ. Ö., Hosgor I.
COMPTES RENDUS PALEVOL, vol.21, no.38, pp.837-845, 2022 (SCI-Expanded)
- VIII. **The Paleozoic petroleum system of the Molla-Bismil area (Diyarbakır Basin, Turkey) and source rock properties of Lower Silurian (Llandovery) organic-rich shale**
Hoşgör İ., YILMAZ İ. Ö.
Marine and Petroleum Geology, vol.143, 2022 (SCI-Expanded)
- IX. **Microfacies and stable isotope analyses ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) of the upper Serpukhovian-Moscovian carbonates in the Hadim Nappe, southern Turkey: an approach to document the Late Paleozoic Ice Age (LPIA)**
Akbaş M., Okuyucu C., YILMAZ İ. Ö.
Facies, vol.68, no.3, 2022 (SCI-Expanded)
- X. **Geochemical and petrographic approach for the origin of the limestone blocks of the walls of the Great Temple of Hattusha, Corum (N-Turkey)**
YILMAZ İ. Ö., Schachner A., Uysal I. T., Unal-Imer E.
TURKISH JOURNAL OF EARTH SCIENCES, vol.31, no.3, pp.294-304, 2022 (SCI-Expanded)
- XI. **Sedimentological and geochemical approaches for determination of the palaeoceanographic and palaeoclimatic conditions of Lower Cretaceous marine deposits in the eastern part of Sakarya Zone, NE Turkey**
ÖZYURT M., KIRMACI M. Z., Yılmaz İ. Ö., KANDEMİR R., TASLI K.
CARBONATES AND EVAPORITES, vol.37, no.2, 2022 (SCI-Expanded)
- XII. **Geochemical and petrographic approach for the origin of the limestone blocks of the walls of the Great Temple of Hattusha, Çorum (N-Turkey)**
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TURKISH JOURNAL OF EARTH SCIENCES, vol.31, pp.294-304, 2022 (SCI-Expanded)
- XIII. **'Filament' marker beds in the Karababa-A Member (Turonian) of the Arabian platform, SE Turkey: Palaeo-environmental significance, stratigraphy and correlation potential**
Mülayim O., YILMAZ İ. Ö., SARI B., Ferré B.
Proceedings of the Geologists' Association, vol.132, no.2, pp.188-198, 2021 (SCI-Expanded)
- XIV. **First record of late Campanian palaeoceanographic and palaeoclimatic changes, Arabian platform, Mazidag-Mardin area, SE Turkey**
YILMAZ İ. Ö., Hosgor I., ALTINER S., WAGREICH M., KVACEK J.
CARNETS DE GEOLOGIE, vol.21, no.6, pp.137-162, 2021 (SCI-Expanded)
- XV. **Micropalaeontology, biostratigraphy, and depositional setting of the mid-Cretaceous Derdere Formation at Derik, Mardin, south-eastern Turkey**
Simmons M. D., Vicedo V., YILMAZ İ. Ö., Hosgor I., Mülayim O., SARI B.
JOURNAL OF MICROPALAEONTOLOGY, vol.39, no.2, pp.203-232, 2020 (SCI-Expanded)
- XVI. **Reservoir heterogeneity of Ordovician sandstone reservoir (Bedinan Formation, SE Turkey): Diagenetic and sedimentological approaches**
Yildiz G., YILMAZ İ. Ö.
MARINE AND PETROLEUM GEOLOGY, vol.118, 2020 (SCI-Expanded)
- XVII. **A Cenomanian-Santonian rudist-bearing carbonate platform on the northern Arabian Plate, Turkey: facies and sequence stratigraphy**
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CRETACEOUS RESEARCH, vol.110, 2020 (SCI-Expanded)
- XVIII. **Late Cretaceous stratigraphy in the Mudurnu-Goynuk Basin (Turkey) and inferences on sea-level change in the Late Campanian to Early Maastrichtian**

Wolfgring E., Wagreich M., YILMAZ İ. Ö., Liu Shasha L. S., Boehm K.
CRETACEOUS CLIMATE EVENTS AND SHORT-TERM SEA-LEVEL CHANGES, vol.498, pp.129-146, 2020 (SCI-Expanded)

- XIX. **An introduction to causes and consequences of Cretaceous sea-level changes (IGCP 609)**
Wagreich M., Sames B., Hart M., YILMAZ İ. Ö.
CRETACEOUS CLIMATE EVENTS AND SHORT-TERM SEA-LEVEL CHANGES, vol.498, pp.1-8, 2020 (SCI-Expanded)
- XX. **Chronology of subduction and collision along the Izmir-Ankara suture in Western Anatolia: records from the Central Sakarya Basin**
Ocakoglu F., Hakyemez A., Açıklım S., Altın S., Büyükmeriç Y., Licht A., Demircan H., Şafak Ü., Yıldız A., Yılmaz İ. Ö., et al.
INTERNATIONAL GEOLOGY REVIEW, vol.61, pp.1244-1269, 2019 (SCI-Expanded)
- XXI. **PALEOGEOGRAPHIC NORTHEASTERN LIMITS OF APHRODINA DUTRUGEI (COCQUAND, 1862) (HETERODONTA, BIVALVIA) FROM THE CENOMANIAN OF THE ARABIAN PLATFORM**
Hosgor I., Yılmaz İ. Ö.
RIVISTA ITALIANA DI PALEONTOLOGIA E STRATIGRAFIA, vol.125, no.2, pp.421-431, 2019 (SCI-Expanded)
- XXII. **New Araucarian Conifer from the Late Cretaceous (Campanian-Maastrichtian) of Southeastern Turkey**
Kvacek J., YILMAZ İ. Ö., Hosgor I., Mendes M. M.
INTERNATIONAL JOURNAL OF PLANT SCIENCES, vol.180, no.6, pp.597-606, 2019 (SCI-Expanded)
- XXIII. **Upper Cretaceous volcanoclastic complexes and calcareous plankton biostratigraphy in the Western Pontides, NW Turkey**
Boehm K., Wagreich M., Wolfgring E., Tuysuz O., Gier S., YILMAZ İ. Ö.
TURKISH JOURNAL OF EARTH SCIENCES, vol.28, no.2, pp.187-209, 2019 (SCI-Expanded)
- XXIV. **Occurrence of the Lower Cambrian anemone-style trace fossils in the Zabuk Formation (Mardin-Derik, SE Turkey)**
Hosgor I., YILMAZ İ. Ö.
COMPTES RENDUS PALEVOL, vol.17, no.8, pp.495-503, 2018 (SCI-Expanded)
- XXV. **Roveacrinid microfacial assemblages (Roveacrinida, Crinoidea) from the Lower-Middle Cenomanian of the Adyaman area (SE Turkey)**
Mulayim O., YILMAZ İ. Ö., Ferre B.
ARABIAN JOURNAL OF GEOSCIENCES, vol.11, no.18, 2018 (SCI-Expanded)
- XXVI. **Plankton biostratigraphy and magnetostratigraphy of the Santonian-Campanian boundary interval in the Mudurnu-Goynuk Basin, northwestern Turkey**
Wolfgring E., Wagreich M., Dinares-Turell J., YILMAZ İ. Ö., Bohm K.
CRETACEOUS RESEARCH, vol.87, pp.296-311, 2018 (SCI-Expanded)
- XXVII. **The upper Coniacian to upper Santonian drowned Arabian carbonate platform, the Mardin-Mazıdağ area, SE Turkey: Sedimentological, stratigraphic, and ichthyofaunal records**
YILMAZ İ. Ö., Cook T. D., Hosgor I., Wagreich M., Rebman K., Murray A. M.
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- XXVIII. **Orbitally-driven Mid-Burdigalian Coastal Sabkha cycles from the Sivas Basin: Sedimentological, paleontological, and geochemical data**
OCAKOĞLU F., Yavuz N., Aydın A., YILMAZ İ. Ö.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.490, pp.505-521, 2018 (SCI-Expanded)
- XXIX. **Divaricate patterns in Cambro-Ordovician obolid brachiopods from Gondwana**
Mergl M., Hosgor I., YILMAZ İ. Ö., Zamora S., Colmenar J.
HISTORICAL BIOLOGY, vol.30, no.7, pp.1015-1029, 2018 (SCI-Expanded)
- XXX. **Fluids along the North Anatolian Fault, Niksar basin, north central Turkey: Insight from stable isotopic and geochemical analysis of calcite veins**
Sturrock C. P., Catlos E. J., Miller N. R., AKGÜN A., Fall A., Gabitov R. I., YILMAZ İ. Ö., Larson T., Black K. N.
JOURNAL OF STRUCTURAL GEOLOGY, vol.101, pp.58-79, 2017 (SCI-Expanded)
- XXXI. **Ecological response to collapse of the biological pump following the mass extinction at the**

Cretaceous-Paleogene boundary

Vellekoop J., Woelders L., Acikalin S., Smit J., van de Schootbrugge B., YILMAZ İ. Ö., Brinkhuis H., Speijer R. P. BIOGEOSCIENCES, vol.14, no.4, pp.1-16, 2017 (SCI-Expanded)

- XXXII. **Maastrichtian-Thanetian planktonic foraminiferal biostratigraphy and remarks on the K-Pg boundary in the southern Kocaeli Peninsula (NW Turkey)**
Sarigul V., Hakyemez A., Tuysuz O., Can Genc S., YILMAZ İ. Ö., Özcan E.
TURKISH JOURNAL OF EARTH SCIENCES, vol.26, no.1, pp.1-29, 2017 (SCI-Expanded)
- XXXIII. **Illitization of Late Devonian-Early Carboniferous K-bentonites from Western Pontides, NW Turkey: Implications for their origin and age**
BOZKAYA Ö., GÜNAL TÜRKMEÑOĞLU A., GÖNCÜOĞLU M. C., Unluce O., YILMAZ İ. Ö., Schroeder P. A.
APPLIED CLAY SCIENCE, vol.134, pp.257-274, 2016 (SCI-Expanded)
- XXXIV. **Geological features and geochemical characteristics of Late Devonian-Early Carboniferous K-bentonites from northwestern Turkey**
GÖNCÜOĞLU M. C., Gunal-Turkmenoglu A., BOZKAYA Ö., Unluce-Yucel O., OKUYUCU C., YILMAZ İ. Ö.
CLAY MINERALS, vol.51, no.4, pp.539-562, 2016 (SCI-Expanded)
- XXXV. **Upper Jurassic-Lower Cretaceous depositional environments and evolution of the Bilecik (Sakarya Zone) and Tauride carbonate platforms, Turkey**
YILMAZ İ. Ö., ALTINER D., OCAKOĞLU F.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.449, pp.321-340, 2016 (SCI-Expanded)
- XXXVI. **A 2800-year multi-proxy sedimentary record of climate change from Lake Cubuk (Goynuk, Bolu, NW Anatolia)**
OCAKOĞLU F., Doenmez E. O., AKBULUT A., TUNOĞLU C., Kir O., Açıkalm S., Erayık C., YILMAZ İ. Ö., Leroy S.
HOLOCENE, vol.26, no.2, pp.205-221, 2016 (SCI-Expanded)
- XXXVII. **Advances and Perspectives in Understanding Cretaceous Sea-level Change Preface**
Wagreich M., Haq B. U., Melinte-Dobrinescu M., Sames B., YILMAZ İ. Ö.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.441, pp.391-392, 2016 (SCI-Expanded)
- XXXVIII. **The Kapanbogazi formation: A key unit for understanding Late Cretaceous evolution of the Pontides, N Turkey**
TÜYSÜZ O., Melinte-Dobrinescu M. C., YILMAZ İ. Ö., Kirici S., Svabenicka L., Skupien P.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.441, pp.565-581, 2016 (SCI-Expanded)
- XXXIX. **Upper Cenomanian-Lower Campanian Dardere and Karababa formations in the Cemberlitas oil field, southeastern Turkey: their microfacies analyses, depositional environments, and sequence stratigraphy**
Mülayim O., Mancini E., Çemen İ., YILMAZ İ. Ö.
TURKISH JOURNAL OF EARTH SCIENCES, vol.25, no.1, pp.46-63, 2016 (SCI-Expanded)
- XL. **Review: Short-term sea-level changes in a greenhouse world - A view from the Cretaceous**
Sames B., Wagreich M., Wendler J. E., Haq B. U., Conrad C. P., Melinte-Dobrinescu M. C., Hu X., Wendler I., Wolfgring E., YILMAZ İ. Ö., et al.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.441, pp.393-411, 2016 (SCI-Expanded)
- XLI. **Stable isotopes and geochemistry of a Campanian-Maastrichtian pelagic succession, Mudurnu-Goynuk Basin, NW Turkey: Implications for palaeoceanography, palaeoclimate and sea-level fluctuations**
Acikalin S., OCAKOĞLU F., YILMAZ İ. Ö., Vonhof H., Hakyemez A., Smit J.
PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.441, pp.453-466, 2016 (SCI-Expanded)
- XLII. **Ecological response to collapse of the biological pump following the mass extinction at the Cretaceous Paleogene boundary**
Vellekoop J., Woelders L., Açıkalm S., Smit J., van de Schootbrugge B., YILMAZ İ. Ö., Brinkhuis H., Speijer R. P.
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- XLIII. **The 9th International Symposium on the Cretaceous System, held on 1-5 September 2013 in Ankara, Turkey**
YILMAZ İ. Ö., Wagreich M., Weissert H.

CRETACEOUS RESEARCH, vol.56, pp.689-690, 2015 (SCI-Expanded)

- XLIV. **An approach to paleoclimatic conditions for Devonian (upper Lochkovian and middle Givetian) ironstone formation, NW Anatolian carbonate platform**
YILMAZ İ. Ö., GÖNCÜOĞLU M. C., Demiray D. G., Gedik I.
TURKISH JOURNAL OF EARTH SCIENCES, vol.24, no.1, pp.21-38, 2015 (SCI-Expanded)
- XLV. **Geochemical and palaeontological characterization of a new K-Pg Boundary locality from the Northern branch of the Neo-Tethys: Mudurnu - Goynuk Basin, NW Turkey**
Acikalin S., Vellekoop J., Ocakoğlu F., Yılmaz İ. Ö., Smit J., Altner S., Goderis S., Vonhof H., Speijer, Speijer R. P. P., Woelders L., et al.
CRETACEOUS RESEARCH, vol.52, pp.251-267, 2015 (SCI-Expanded)
- XLVI. **Clay mineralogy, chemistry, and diagenesis of Late Devonian K-bentonite occurrences in northwestern Turkey**
GÜNAL TÜRKMENOĞLU A., BOZKAYA Ö., GÖNCÜOĞLU M. C., Unluce O., YILMAZ İ. Ö., OKUYUCU C.
TURKISH JOURNAL OF EARTH SCIENCES, vol.24, no.3, pp.209-229, 2015 (SCI-Expanded)
- XLVII. **Early to Mid Holocene Lake level and temperature records from the terraces of Lake Sünnet in NW Turkey**
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- XLVIII. **Early to Mid-Holocene Lake level and temperature records from the terraces of Lake Sunnet in NW Turkey**
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PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY, vol.369, pp.175-184, 2013 (SCI-Expanded)
- XLIX. **Stratigraphic transition and palaeoenvironmental changes from the Aptian oceanic anoxic event 1a (OAE1a) to the oceanic red bed 1 (ORB1) in the Yenicesihlar section, central Turkey**
Hu X., Zhao K., YILMAZ İ. Ö., Li Y.
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- L. **The first record of the "Mid-Barremian" Oceanic Anoxic Event and the Late Hauterivian platform drowning of the Bilecik platform, Sakarya Zone, western Turkey**
YILMAZ İ. Ö., ALTINER D., TEKİN U. K., OCAKOĞLU F.
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- LI. **Evidence of orbital forcing in lake-level fluctuations in the Middle Eocene oil shale-bearing lacustrine successions in the Mudurnu-Goynuk Basin, NW Anatolia (Turkey)**
OCAKOĞLU F., Acikalin S., YILMAZ İ. Ö., ŞAFAK Ü., GÖKÇEOĞLU C.
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- LII. **Marine rapid environmental climatic change in the Cretaceous greenhouse world**
YILMAZ İ. Ö., Xiumian H., Michael W.
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- LIII. **The Unaz Formation A Key Unit in the Western Black Sea Region N Turkey**
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- LIV. **Evidence of orbital forcing in lake level fluctuations in the Middle Eocene oilshale bearing lacustrine successions in the Mudurnu Göynük Basin NW Anatolia Turkey**
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- LV. **The Unaz Formation: A Key Unit in the Western Black Sea Region, N Turkey**
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- LVI. **Foraminiferal biostratigraphy and sequence stratigraphy across the mid-Carboniferous boundary in the Central Taurides, Turkey**
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- LVII. Foraminiferal biostratigraphy and sequence stratigraphy across the mid Carboniferous boundary in the Central Taurides Turkey**
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- LVIII. Cenomanian - Turonian Oceanic Anoxic Event (OAE2) in the Sakarya Zone, northwestern Turkey: Sedimentological, cyclostratigraphic, and geochemical records**
YILMAZ İ. Ö., ALTINER D., TEKİN U. K., Tuysuz O., Ocakoglu F., Acikalin S.
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- LIX. Stratigraphy and Larger Foraminifera of the Eocene Shallow-marine and Olistostromal Units of the Southern Part of the Thrace Basin, NW Turkey**
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- LX. Stratigraphy and Larger Foraminifera of the Eocene Shallow marine and Olistostromal Units of the Southern Part of the Thrace Basin NW Turkey**
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- LXI. First results on determination of cosmogenic Cl-36 in limestone from the Yenicekale Complex in the Hittite capital of Hattusha (Turkey)**
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- LXII. Cretaceous pelagic red beds and black shales (Aptian-Santonian), NW Turkey: Global oceanic anoxic and oxic events**
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- LXIII. Cretaceous Pelagic Red Beds and Black Shales Aptian Santonian NW Turkey Global Oceanic Anoxic and Oxic Events**
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