

BULLETIN OF THE MINERAL RESEARCH AND EXPLORATION

2024

173

ISSN : 0026-4563
E-ISSN : 2651-3048

CONTENTS

Research Articles

- Modelling and computation of gravitational attraction, gradient tensors, rotational and horizontal invariants of Asteroid Bennu (101955), Itokawa (25143) and Eros (433) via 2D Non-Uniform FFT1
İlkin ÖZSÖZ
- Coal quality, mineralogy, petrography, and geochemistry of the high-strontium Bozburun lignite (Malatya, eastern Türkiye)19
Rıza Görkem OSKAY and Ali İhsan KARAYİĞİT
- Vitrinite reflectances and mineralogy of coal clasts in the Late Carboniferous sequences in the two-deep research wells from the Kozlu coalfield (Zonguldak Basin, NW Türkiye).....55
Ali İhsan KARAYİĞİT and Rıza Görkem OSKAY
- Magnetic inversion modeling of subsurface geologic structures for mineral deposits mapping in southeastern Nigeria.....85
Ema M. ABRAHAM, Ayatu O. USMAN, Kelvin I. CHIMA, George-best AZUOKO and Iheanyi IKEAZOTA
- Paleocene-Eocene foraminifera from the Tuz Gölü Basin (Salt Lake Basin, Central Türkiye) and their paleoenvironmental interpretations107
Muhittin GÖRMÜŞ, Mustafa YILDIZ, Alper BOZKURT and Aynur HAKYEMEZ
- Active tectonics of western Kosova: Insights from geomorphic and structural analyses..... 153
Alper GÜRBÜZ, Astrit SHALA, Shemsi MUSTAFA and Aytekin ERTEN
- Time-lapse ground penetrating radar (GPR) imaging of used engine oil contamination175
Hafız MOHAMMED NAZİFİ, Ertan PEKŞEN, Ertuğrul GÜRBÜZ and Levent GÜLEN
- A simple and practical tool for indirect determination of the unconfined compressive strength of most common construction materials.....189
Kamil KAYABALI, Turgay BEYAZ, İlknur KARAASLAN ÖZDEMİR and Deniz YILMAZ
- Evaluation of radioactive properties and microfaunal evidence in the Bosphorus and the Dardanelles straits and Golden Horn sediments...203
İpek F. BARUT, Engin MERİÇ, Atike NAZİK, Mustafa ERYILMAZ, Feyza DİNÇER and Erol KAM
- Anthropogenic problems threatening major cities: Largest surface deformations observed in Hatay, Türkiye based on SBAS-InSAR235
Şükrü Onur KARACA, Gültekin ERTEN, Semih ERGİNTAV and Shuhab D. KHAN
- Bulletin of the Mineral Research and Exploration Notes to the Authors253

OWNER ON BEHALF OF MTA GENERAL DIRECTORATE

GENERAL DIRECTOR

Vedat YANIK

EXECUTIVE PUBLICATION EDITORIAL BOARD

Şule GÜRBOĞA (Chairman)

Ural ŞAVUR

Buğra ÇAVDAR

Recep GÜNEY

Neşe OYAL

Selim ÖZALP

Feyza ŞAHİN KILAVUZ

EDITOR-IN-CHIEF

Halim MUTLU (Ankara-Türkiye)

EDITORIAL BOARD

Orhan R. ABBASOV (Azerbaijan)
Sinan AKISKA (Ankara-Türkiye)
Oğuz ALTUN (Ankara-Türkiye)
Hasret Ozan AVCI (Ankara-Türkiye)
Ali Cemal BENİM (Germany)
Andrea BROGI (Italy)
Ayşe CEBE (Ankara-Türkiye)
Xi-Jie CHEN (Beijing-China)
Dornadula CHANDRASEKHARAM (India)
Buğra ÇAVDAR (Ankara-Türkiye)
Aydın ÇİÇEK (Ankara-Türkiye)
Okay ÇİMEN (Tunceli-Türkiye)
Sevda DEMİR (Ankara-Türkiye)
İsmail DEMİRCİ (Ankara-Türkiye)
Kıymet DENİZ (Ankara-Türkiye)
Fuat ERKÜL (Antalya-Türkiye)
Ranjith Pathegama GAMAGE (Monash-Australia)

Şule GÜRBOĞA (Ankara-Türkiye)
Recep GÜNEY (Ankara-Türkiye)
Alper GÜRBÜZ (Niğde-Türkiye)
Tuba ISIK (Ankara-Türkiye)
Olçay İNANÇ (Ankara-Türkiye)
Doğan KALAFAT (İstanbul-Türkiye)
Ferhat KAYA (Finland)
Sándor KELE (Budapest-Hungary)
Cumhur Özcan KILIÇ (Ankara-Türkiye)
Onur Eser KÖK (Hatay-Türkiye)
Büşra Bihter KURT (Ankara-Türkiye)
Timothy KUSKY (China)
David LENTZ (New Brunswick-Canada)
Kotha MAHENDER (India)
Mustapha MEGHRAOUI (France)
Robert MORITZ (Geneve-Switzerland)
Soumyajit MUKHERJEE (India)

Roland OBERHAENSLI (Germany)
Neşe OYAL (Ankara-Türkiye)
Semiha ÖNCÜ (Ankara-Türkiye)
Selim ÖZALP (Ankara-Türkiye)
Ayşe ÖZDEMİR (Van-Türkiye)
Şafak Gökhan ÖZKAN (İstanbul-Türkiye)
Eren PAMUK (Ankara-Türkiye)
Spyridon PAVLIDES (Egypt)
Franco PIRAJNO (Australia)
Mavinakere Eshwaraiah RAGHUNANDAN (Malaysia)
Rossana SANFILIPPO (Italy)
Ökmen SÜMER (İzmir-Türkiye)
Deniz TİRİNGA (Ankara-Türkiye)
Orlando VASELLI (Italy)
Lu WANG (China)
Ergül YAŞAR (Ankara -Türkiye)

ADVISORY BOARD

Erdin BOZKURT (Ankara-Türkiye)
Osman CANDAN (İzmir-Türkiye)
Ahmet GÖKÇE (Sivas-Türkiye)
M. Cemal GÖNCÜOĞLU (Ankara-Türkiye)
Nilgün GÜLEÇ (Ankara-Türkiye)

Cahit HELVACI (İzmir-Türkiye)
Kamil KAYABALI (Ankara-Türkiye)
Nuretdin KAYMAKÇI (Ankara-Türkiye)
Aral İ. OKAY (İstanbul-Türkiye)
Cengiz OKUYUCU (Konya-Türkiye)

Osman PARLAK (Adana- Türkiye)
Okan TÜYSÜZ (İstanbul-Türkiye)
İbrahim UYSAL (Trabzon-Türkiye)
Taner ÜNLÜ (Ankara-Türkiye)
Yücel YILMAZ (İstanbul-Türkiye)

MANAGING EDITOR

Banu Ebru BİNAL (Head of the Department of Scientific Documentation and Presentation), e-posta: banu.binal@mta.gov.tr

LOCATION OF MANAGEMENT

Bilimsel Dokümantasyon ve Tanıtma Dairesi Başkanlığı
Maden Tetkik ve Arama Genel Müdürlüğü
Çukurambar Mahallesi
Dumlupınar Bulvarı No: 11 06530
Çankaya/ANKARA
e-mail: bilimsel_dairesi@mta.gov.tr

Bull. Min. Res. Exp. is indexed and abstracted in TR Dizin, Emerging Source Citation Index (ESCI), Scopus, The ICI Journals Master List (Copernicus), Directory of Open Access Journals (DOAJ), Open Academic Journals Index (OAJI), Georef, MIAR, EBSCO and Zoological Record.

The Bulletin of the Mineral Research and Exploration is published in three issues in a year. Each volume is published in Turkish and English in pdf format on the website of Bulletin of the Mineral Research and Exploration and English issue published in print. The English volume of the "Bulletin of the Mineral Research and Exploration" can be obtained from "BDT Department" free of charge, either directly or ordered by adding postage fee from the correspondence address. Typesetting and printing operations are carried out and followed by the Publication Service of the Scientific Documentation and Publicity Department. e-mail: bilimsel_dairesi@mta.gov.tr

The section of "notes to the authors", format, copyright and other information can be obtained from www.mta.gov.tr as PDF files.

Printed Date:

Printing House:

Periodical

ISSN: 0026-4563

E-ISSN: 2651-3048

© All rights reserved. This journal and the individual contributions including in the issue are under copyright by the General Directorate of Mineral Research and Exploration (MTA), and may not be reproduced, resold, and used without permission and addressing the bulletin.