

Earth Sciences Pakistan (ESP)

HEAD OFFICE ADDRESS:

Zibeline International Publishing Sdn Bhd

C2-2-3, Block 2, CBD Perdana 3, Persiaran Cyberpoint Timur, Cyber 12, 63000 Cyberjaya, Selangor. **Tel:** +603-86879842

EDITORIAL STAFF:

Publishing Manager Tasbia Ab Rajul

Publishing Editor Nurul Afiqah Ab Manan

Publishing Editor Rozalaidah Abdul Karim

Technical Editor Nuraliah Natasha Amirrulhisam

Technical Editor Muhammad Aqil Zikry Mohd Nizam **Frequency:** Bi-annual (2 issue per year)

ISSN: 2521-2893 (Print) ISSN: 2521-2907 (Online)

Price: Single issue: 50 MYR Price for abroad Single issue: 25 USD

Web: www.earthsciencespakistan.com

E-mail: info@zibelinepub.com

Earth Sciences Pakistan (ESP)

Contents

VOLUME 6, ISSUE 1, 2022		
No	Editorial	Pages
1	PALEONTOLOGY, PALEOENVIRONMENT AND PALEOGEOGRAPHY OF THE EARLY PALEOGENE PAKISTANIAN BENTHIC FORAMINIFERAL SPECIES OF HAQUE – SUBORDER TEXTULARIINA (AGGLUTINATED FORAMINIFERA)	01-06
2	FIELD AND PETROGRAPHIC EVIDENCES OF GRANITOIDS AND MAFIC MAGMAS INTERACTION IN THE NEOPROTEROZOIC CENTRAL AFRICAN FOLD BELT IN CAMEROON (MAKENENE AREA)	07-16
3	AQUIFER DELINEATION USING SEISMIC REFRACTION METHOD IN RUMUOHIA COMMUNITY, EMOHUA L.GA, RIVERS STATE, NIGERIA	17-21
4	LENTICUBELLA: A NEW TETHYAN LAGENID BENTHIC FORAMINIFERAL GENUS	22-26
5	VELOCITY LAYERING IN THE MIDDLE BENUE TROUGH NIGERIA USING SEISMIC REFRACTION DATA	27-29
6	IMPACT OF BIOLOGICALWASTEWATER TREATMENT PLANT AND PAHARRANG DRAIN ON GROUNDWATER CONTAMINATION AND ITS HEALTH RISK ASSESSMENT	30-35
7	CHARACTERISATION OF GOLD-ASSOCIATED BASE METALS IN ITAGUNMODI, ILESHA SCHIST BELTS, NIGERIA, TO ASCERTAIN THEIR ORE BODY FORMATION TRENDS	36-42

Earth Sciences Pakistan (ESP)

Editorial

Earth Sciences Pakistan (ESP) is an International Open & Free Access quarterly e-Journal publishing peer- reviewed primary research/review papers from all the domains: geophysics, geology, physical geogrophy, atmospheric science, oceanography, soil and environmental science in English language. It also publishes popular articles, gallery of photos of geo-scientific interests, News items also containing organization of earth science events, seminars, conferences etc. across the globe as our outreach efforts. ESP is launched for rapid exchange of researches and ideas between the widespread community of earth scientists and also to promote awareness about 'Science of Earth' among students and common public. Earth Sciences Pakistan (ESP) is aiming at promoting and publishing original high quality research in all disciplines of earth sciences and technology.

Scientific Board

Editorial Team

Editor in Chief Dr. Haroon Rashid Head of the Department Civil Engineering, Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, Pakistan

Prof. Dr. M. Hassaan Awad Professor of Sedimentary Geology X. Vice President for Graduate Studies and Research Al-Azhar University Cairo, Egypt

Editorial Board

Professor. Haidar Salim Anan Prof. of Stratigraphy & Paleontology former Vice President for Academic Affairs Al Azhar University – Gaza

Obaro Reuben Department of Minerals and Petroleum Resources Engineering Technology

Dr. Tedy Agung C. Department of Mining Engineering Doctor of Engineering Muhammad Haziq Khan Faculty of Geosciences and environmental engineering, SouthwestJiaotong University Chengdu China

Dr. Shamim Umer Department of Botany, University of Agriculture Faisalabad

Dr. Okpoli Cyril Chibueze Department of Earth Sciences, Adekunle Ajasin University, Akungba-Akoko Ondo State, Nigeria

Fariha Ilyas M.Sc. Agriculture (Soil Science) Department of Soil Science Bahauddin Zakariya University, Multan, Pakistan.

Sajid Mahmood Laboratory Assistant Pakistan Environmental Protection Agency