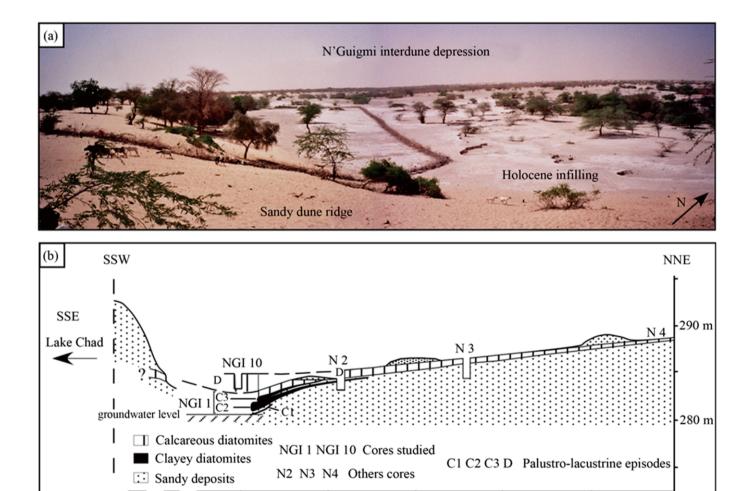


Open Journal of Geology



100m



0

www.scirp.org/journal/ojg

200m

Journal Editorial Board

ISSN 2161-7570 (Print) ISSN 2161-7589 (Online) http://www.scirp.org/journal/ojg

Editor-in-Chief

Prof. Zhihong Wang

Chinese Academy of Sciences, China

Editorial Board

Dr. Mohammad Ayaz Alam	Universidad de Chile, Chile
Dr. Md. Mahmudul Alam	Kyoto University, Japan
Prof. Anup Kumar Bandopadhyay	Central Institute of Mining and Fuel Research, India
Dr. Ranjith P. Gamage	Monash University, Australia
Prof. Girish Gopinath	Centre for Water Resources Development and Management, India
Prof. Mohamed Tahir Hussein	King Saud University, Saudi Arabia
Prof. Ali Ihsan Karayigit	Hacettepe University, Turkey
Prof. Gang Li	Chinese Academy of Sciences, China
Dr. Tranos D. Markos	Aristotle University of Thessaloniki, Greece
Dr. Mostafa Tantawy Mohamed	Assiut University, Egypt
Prof. Gopalakrishnarao Parthasarathy	NGRI-CSIR, India
Prof. Nandipati Subba Rao	Andhra University, India
Prof. Tokiyuki Sato	Akita University, Japan
Dr. Ian P. Skilling	University of Pittsburgh, USA
Dr. Alireza K. Somarin	Brandon University, Canada
Prof. Juan R. Tejerina	University of Cantabria, Spain
Dr. Ergün Tuncay	Hacettepe University, Turkey
Prof. Shunshan Xu	National University of Mexico, Mexico
Prof. Xiao-Li Yang	Central South University, China
Prof. Hong Zheng	Chinese Academy of Sciences, China



TABLE OF CONTENTS

Volume 3 Number 2

April 2013

Construction of Subsurface Geological Structures Using a Drilling Database: A Case Study for	
an Intra-Arc Basin, the Osaka Plain, Southwest Japan	
M. Sakurai, F. Masuda	
Behavior of Surrounding Soil during Construction and Its Countermeasures Using Pipe Jacking	
Method in Deep Strata	
T. Senda, H. Shimada, T. Sasaoka, K. Matsui	44
Microfacies and Sedimentary Environments of the Fahliyan Formation from the Southwest of Iran	
(Shiraz, Zagros)	
M. P. N. Shirazi, F. D. Jahromi, M. Bahrami	49
Continental Trace Fossils in the Semnan Area (Northern Iran)	
M. Bagheri, S. Feiznia, M. Arian, R. Shabanian, R. Mahari	54
Application of Activity and Wavelet Analysis on Well Logging Sedimentary Cycle Division	
X. H. Li, Y. Guo	62
A Review of Carbonatite Occurrences in Italy and Evaluation of Origins	
A. Paone	66
Petrography and Provenance of Early Triassic Pachmarhi Formation Sandstones, Satpura	
Gondwana Basin, Madhya Pradesh, Central India	
A. Khan, Anis, Shahnawaz	83
Development of Flash Setting Material for Temporally Pipeline Restoration after Earthquake	
H. Shimada, A. Hamanaka, T. Sasaoka, K. Matsui	94
Linking of Environmental and Health Indicators by Neural Networks: Case of Breast Cancer	
Mortality, Slovak Republic	
S. Rapant, M. Letkovičová, V. Cvečková, A. Ďurža, K. Fajčíková, H. Zach	101
Synchronous Changes of Nitrogen and Carbon Isotopic Ratios and Nannoplankton Assemblage in	
Marine Sediments off Peru at 250 ka: A Role of Phytoplankton in Primary Ocean Productivity	
H. Hasegawa, I. Kita, S. Tsukamoto, S. Chiyonobu, Y. Kuwahara	113
Timing of Onset of Volcanic Centers in the Campanian of Western North America as Determined by	
Distal Ashfalls	
J. L. Bertog	121
Separation of Alteration Zones on ASTER Data and Integration with Drainage Geochemical	
Maps in Soltanieh, Northern Iran	
F. Feizi, E. Mansuri	134
Paleohydrological Reconstruction from Late Holocene Records in Interdune Lakes	
(N'Guigmi, Northern Bank of the Lake Chad, Niger)	
D. Sebag, A. Durand, Z. Garba, E. P. Verrecchia	143

The figure on the front cover is from the article published in Open Journal of Geology, 2013, Vol. 3, No. 2, pp. 143-155 by David Sebag, Alain Durand, Zibo Garba and Eric P. Verrecchia.

Open Journal of Geology (OJG)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Geology* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail: sub@scirp.org

COPYRIGHT

Copyright©2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

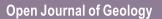
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

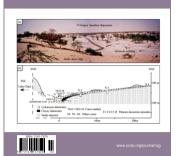
Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assumes no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact: E-mail: ojg@scirp.org







Open Journal of Geology (OJG)

ISSN: 2161-7570 (Print) ISSN: 2161-7589(Online) http://www.scirp.org/journal/ojg

Open Journal of Geology (OJG) is an international journal dedicated to the latest advancement of geology. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of geology. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy.

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Earth science
- Economic geology
- Engineering geology
- Environmental geology
- Geoarchaeology
- Geochemistry
- Geochronology
- Geodetics
- Geography
- Geological modelling
- Geometallurgy
- Geomicrobiology

- Geomorphology
- Geomythology
- Geophysics
- Glaciology
- Historical geology
- Hydrogeology
- Meteorology
- Mineralogy
- Mining geology
- Oceanography
- Paleoclimatology
- Paleontology

- Petroleum geology
- Petrology
- Petrophysics
- Plate tectonics
- Sedimentology
- Seismology
- Soil science
- Speleology
- Stratigraphy
- Structural geology
- Volcanology
- We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

http://www.scirp.org/journal/ojg

E-mail: ojg@scirp.org