

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE
The Pitt Building, Trumpington Street, Cambridge CB2 1RP, United Kingdom

CAMBRIDGE UNIVERSITY PRESS
Journals Fulfillment Department, UPH, Shaftesbury Road,
Cambridge, CB2 8BS, UK, United Kingdom
One Liberty Plaza, New York, NY 10006, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
Ruiz de Alarcón 13, 28014 Madrid, Spain
Dock House, The Waterfront, Cape Town 8001, South Africa

Printed and bound in the UK by Bell & Bain Ltd, Glasgow

Contents

GEOLOGICAL MAGAZINE

ORIGINAL ARTICLES

Workflow for analysis of compositional data in sedimentary petrology: provenance changes in sedimentary basins from spatio-temporal variation in heavy-mineral assemblages

J. Verhaegen, G.J. Weltje & D. Munsterman

1111-1130

Geochemical characteristics and resource potential analysis of Chang 7 organic-rich black shale in the Ordos Basin

Jiangmin Du, Yande Zhao, Qingchun Wang, Yanqiu Yu, Hui Xiao, Xiankui Xie, Yuguo Du & Zimiao Su

1131-1140

Geochronology of early Mesozoic diabase units in southwestern China: metallogenetic and tectonic implications

Liang Qiu, Wen-Xin Yang, Dan-Ping Yan, Michael L. Wells, Jun-Ting Qiu, Tian Gao, Jian-Meng Dong, Liangliang Zhang & Fang-Yue Wang

1141-1156

Provenance and geochemical variations across the Ediacaran–Cambrian transition in the Soltanieh Formation, Alborz Mountains, Iran

Najmeh Etemad-Saeed & Mahdi Najafi

1157-1174

Metamorphic evolution and age constraints of the garnet-bearing mica schist from the Xindaduo area of the Sumdo (U)HP metamorphic belt, Tibet

Cong Zhang, Thomas Bader, Lingmin Zhang, Tingting Shen, Peng Li & Xuping Li

1175-1189

Geochronology and physical context of Oldowan site formation at Kanjera South, Kenya

P. W. Ditchfield, E. Whitfield, T. Vincent, T. Plummer, D. Braun, A. Deino, F. Hertel, J. S. Oliver, J. Louys & L. C. Bishop

1190-1200

Morphological and phylogenetic aspects of the dentition of *Megacephalosaurus eulerti*, a pliosaurid from the Turonian of Kansas, USA, with remarks on the cranial anatomy of the taxon

Daniel Madzia, Sven Sachs & Johan Lindgren

1201-1216

Detrital zircon characterization of early Cambrian sandstones from East Avalonia and SE Ireland: implications for terrane affinities in the peri-Gondwanan Caledonides

John W. F. Waldron, David I. Schofield, Graham Pearson, Chiranjeeb Sarkar, Yan Luo & Robert Dokken

1217-1232

The Kinzers Formation (Pennsylvania, USA): the most diverse assemblage of Cambrian Stage 4 radiodonts

Stephen Pates & Allison C. Daley

1233-1246

Reconstruction of the Cryogenian palaeogeography in the Yangtze Domain: constraints from detrital age patterns

Yu Liu, Kunguang Yang, Ali Polat & Xiao Ma

1247-1264

Geological evolution of the Chalk Group in the northern Dutch North Sea: inversion, sedimentation and redeposition

Eva Van Der Voet, Leonora Heijnen & John J. G. Reijmer

1265-1284

RAPID COMMUNICATION

First geochemical and geochronological characterization of Late Cretaceous mesosilicic magmatism in Gaster, Northern Patagonia, and its tectonic relation to other coeval volcanic rocks in the region

Claudia Zaffarana, Silvia Lagorio, Darío Orts, Alicia Busteros, Diego Silva Nieto, Raúl Giacosa, Víctor Ruiz González, Bárbara Boltshauser, Carla Puigdomenech Negre, Rubén Somoza & Miguel Haller

1285-1294

Cambridge Core

For further information about this journal please go to the journal website at: cambridge.org/geo



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS