



Earth and Environmental Science

Books and Journals from
Cambridge University Press

Cambridge publish books and journals across the full spectrum of sub-disciplines – everything from soil science to space physics and from palaeontology to petroleum geoscience. We are particularly well known for our world-leading book lists in atmospheric science and geophysics.

Books range in level from undergraduate and graduate textbooks, to research and reference volumes, and handbooks for industry practitioners.

We have an ever-expanding journals portfolio including prestigious journals such as *Radiocarbon*, the journals of the *International Glaciological Society*, the *Journal of Paleontology* and *Paleobiology* and from 2017, *Quaternary Research*.


For further details visit:

[cambridge.org/earth-and-environmental](https://www.cambridge.org/earth-and-environmental)

Cambridge
Core



CAMBRIDGE
UNIVERSITY PRESS



Access
leading
journals in
your subject

Cambridge Core

Explore today at [cambridge.org/core](https://www.cambridge.org/core)

Cambridge Core



CAMBRIDGE
UNIVERSITY PRESS

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

GEOLOGICAL MAGAZINE

CONTENTS

ORIGINAL ARTICLES

Iron and silica enrichments in the middle Albian neptunian dykes from the High-Tatric Unit, Central Western Carpathians: an indication of hydrothermal activity for an extensional tectonic regime

Krzysztof Bąk, Joanna Kowalczyk, Anna Wolska, Marta Bąk & Lucyna Natkaniec-Nowak 1–19

New material of *Ophisaurus*, *Anguis* and *Pseudopus* (Squamata, Anguillidae, Anguinae) from the Miocene of the Czech Republic and Germany and systematic revision and palaeobiogeography of the Cenozoic Anguinae

Jozef Klembara & Michael Rummel 20–44

The future of Earth's oceans: consequences of subduction initiation in the Atlantic and implications for supercontinent formation

João C. Duarte, Wouter P. Schellart & Filipe M. Rosas 45–58

Darriwilian shallow-marine deposits from the Sultanate of Oman, a poorly known portion of the Arabian margin of Gondwana

A. P. Heward, G. A. Booth, R. A. Fortey, C. G. Miller & I. J. Sansom 59–84

Cambrian–Ordovician conodonts from slump deposits of the Argentine Precordillera: new insights into its passive margin development

Gustavo G. Voldman, Juan L. Alonso, Luis P. Fernández, Aldo L. Banchig, Guillermo L. Albanesi, Gladys Ortega & Raúl Cardó 85–97

Carboniferous ostracods from central Honshu, Japan

C. P. Stocker, T. Komatsu, G. Tanaka, M. Williams, D. J. Siveter, C. E. Bennett, S. Wallis, T. Oji, T. Maekawa, M. Okura & T. R. A. Vandenbroucke 98–108

Chromite chemistry as an indicator of petrogenesis and tectonic setting of the Ranomena ultramafic complex in north-eastern Madagascar

C. Ishwar-kumar, V.J. Rajesh, B.F. Windley, T. Razakamanana, T. Itaya, E.V.S.S.K. Babu & K. Sajeev 109–118

New U–Pb constraints identify the end-Guadalupian and possibly end-Lopingian extinction events conceivably preserved in the passive margin of North America: implication for regional tectonics

V. I. Davydov, J. L. Crowley, M. D. Schmitz & W. S. Snyder 119–131

Early Jurassic adakitic rocks in the southern Lhasa sub-terrane, southern Tibet: petrogenesis and geodynamic implications

Xinfang Shui, Zhenyu He, Reiner Klemm, Zeming Zhang, Tianyu Lu & Lili Yan 132–148

Palaeoproterozoic metasedimentary rocks of the Ji'an Group and their significance for the tectonic evolution of the northern segment of the Jiao–Liao–Ji Belt, North China Craton

En Meng, Chao-Yang Wang, Zhuang Li, Yan-Guang Li, Hong Yang, Jia Cai, Lei Ji & Meng-Gi Jin 149–173

RAPID COMMUNICATIONS

***Treptichnus pedum* and the Ediacaran–Cambrian boundary: significance and caveats**

Luis A. Buatois 174–180

***Messorocaris*, a new sanctacariid-like arthropod from the middle Cambrian Wheeler Formation (Utah, USA)**

Rudy Lerosey-Aubril & Jacob Skabelund 181–186

A mawsoniid coelacanth (Sarcopterygii: Actinistia) from the Rhaetian (Upper Triassic) of the Peygros quarry, Le Thoronet (Var, southeastern France)

Uthumporn Deesri, Lionel Cavin, Romain Amiot, Nathalie Bardet, Eric Buffetaut, Gilles Cuny, Stephen Giner, Jeremy E. Martin & Guillaume Suan 187–192

An approach towards the projectile trajectory during the oblique Steinheim meteorite impact by the interpretation of structural crater features and the distribution of shatter cones

E. Buchner 193–202

The diet of *Leptomeryx* sp. from the Late Eocene Yolomécatl Formation, NW Oaxaca, Sierra Madre del Sur Morphotectonic Province, SE México and its palaeoecological significance

Ismael Ferrusquía-Villafranca, Víctor Adrián Pérez-Crespo, José E. Ruiz-González, Enrique Martínez-Hernández & Pedro Morales-Puente 203–208

***In situ* U–Th–Pb_{total} dating of polychronous monazite in the Koraput anorthosite pluton, Eastern Ghats Granulite Belt (India), and implications**

D. Saikia, P. Nasipuri & A. Bhattacharya 209–228

This journal offers open access publishing through Cambridge Open Option. Please visit www.cambridge.org/openaccess for more information.

Cambridge Core

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



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS