# 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

Cambridge Core



Access leading journals in your subject

# Cambridge Core

Explore today at cambridge.org/core

Cambridge Core



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**

1187-1192

1202-1216

1257-1268

### CONTENTS

#### PREFACE

#### Introduction: from snowball Earth to the Cambrian explosion-evidence from China Maoyan Zhu & Xian-Hua Li

**ORIGINAL ARTICLES** 

#### A new SIMS zircon U-Pb date from the Ediacaran Doushantuo Formation: age constraint on the Weng'an biota

Chuanming Zhou, Xian-Hua Li, Shuhai Xiao, Zhongwu Lan, Qing Ouyang, Chengguo Guan & Zhe Chen 1193-1201

#### SIMS U-Pb zircon geochronological constraints on upper Ediacaran stratigraphic correlations, South China Chuan Yang, Xian-Hua Li, Maoyan Zhu &

Daniel J. Condon

Lowermost Cambrian acritarchs from the Yanjiahe Formation, South China: implication for defining the base of the Cambrian in the Yangtze Platform Soo Yeun Ahn & Maoyan Zhu 1217-1231

#### High-resolution C-isotope chemostratigraphy of the uppermost Cambrian stage (Stage 10) in South China: implications for defining the base of Stage 10 and palaeoenvironmental change

Dandan Li, Xiaolin Zhang, Kefan Chen, Guijie Zhang, Xiaoyan Chen, Wei Huang, Shanchi Peng & Yanan Shen 1232-1243

#### Carbonate carbon isotope evolution of seawater across the Ediacaran-Cambrian transition: evidence from the Keping area, Tarim Basin, NW China Qingjun Guo, Yinan Deng, Jian Hu & Liyuan Wang 1244-1256

#### A new modular palaeopascichnid fossil Curviacus ediacaranus new genus and species from the Ediacaran Dengying Formation in the Yangtze Gorges area of South China

Bing Shen, Shuhai Xiao, Chuanming Zhou, Lin Dong, Jieqiong Chang & Zhe Chen

#### Chambered structures from the Ediacaran Dengying Formation, Yunnan, China: comparison with the Cryogenian analogues and their microbial interpretation Cui Luo, Bing Pan & Joachim Reitner 1269-1284

Possible biogenic structures from the Lower Cambrian strata in Yunnan Province, South China Wei Liu & Xingliang Zhang 1285-1293

#### A Cloudina-like fossil with evidence of asexual reproduction from the lowest Cambrian, South China

Jian Han, Yaoping Cai, James D. Schiffbauer, Hong Hua, Xing Wang, Xiaoguang Yang, Kentaro Uesugi, Tsuyoshi Komiya & Jie Sun

1294-1305

1334-1343

#### Appendages of an early Cambrian metadoxidid trilobite from Yunnan, SW China support mandibulate affinities of trilobites and artiopods

Han Zeng, Fangchen Zhao, Zongjun Yin & Maoyan Zhu 1306–1328

#### RAPID COMMUNICATION

#### A crown group priapulid from the early Cambrian Guanshan Lagerstätte

Shi-Xue Hu, Mao-Yan Zhu, Fang-Chen Zhao & Michael Steiner 1329-1333

#### **ORIGINAL ARTICLES**

A new vauxiid sponge from the Kaili Biota (Cambrian Stage 5), Guizhou, South China Xinglian Yang, Yuanlong Zhao, Loren E . Babcock & Jin Peng

#### Marine redox evolution in the early Cambrian Yangtze shelf margin area: evidence from trace elements, nitrogen and sulphur isotopes

Guang-Yi Wei, Hong-Fei Ling, Da Li, Wei Wei, Dan Wang, Xi Chen, Xiang-Kun Zhu, Fei-Fei Zhang & Bin Yan 1344-1359

#### Evidence for marine redox control on spatial colonization of early animals during Cambrian Age 3 (c. 521-514 Ma) in South China

Chengsheng Jin, Chao Li, Thomas J. Algeo, Meng Cheng, Lidan Lei, Zihu Zhang & Wei Shi 1360-1370

#### Major and trace element geochemistry of the Neoproterozoic syn-glacial Fulu iron formation, South China

Lianjun Feng, Jing Huang, Dingbiao Lu & Qirui Zhang 1371-1380

A LA-ICP-MS analysis of rare earth elements on phosphatic grains of the Ediacaran Doushantuo phosphorite at Weng'an, South China: implication for depositional conditions and diagenetic processes Bi Zhu & Shao-Yong Jiang

1381-1397

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

#### **Cambridge Core**

please go to the journal web site at: cambridge.org/geo



MIX Paper from consible sources FSC® C007785



https://doi.org/10.1017/S0016756817000929 Published online by Cambridge University Press