

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 ARTICLE

Lithospheric mantle, asthenosphere, slab and crustal contribution to petrogenesis of Eocene to Miocene volcanic rocks from the west Alborz Magmatic Assemblage, SE Ahar, Iran

Ahmad Ahmadvand, Mohammad Reza Ghorbani, Mir Ali Asghar Mokhtari, Yi Chen, William Amidon, Jose Francisco Santos and Mohammad Paydari

375–406

Lower Cambrian facies architecture and sequence stratigraphy, NW France: framework for evaluation of basin-wide processes of sedimentation

David J. Went

407–424

Newly identified Jurassic–Cretaceous migmatites in the Liaodong Peninsula: unravelling a Mesozoic anatectic event related to the lithospheric thinning of the North China Craton

Jin Liu, Jian Zhang, Chang-Qing Yin, Chang-Quan Cheng, Jia-Hui Qian, Chen Zhao, Ying Chen, Xiao Wang and Jui-Yen Hsia

425–441

Detrital zircon provenance of north Gondwana Palaeozoic sandstones from Saudi Arabia

Guido Meinhold, Alexander Bassis, Matthias Hinderer, Anna Lewin and Jasper Berndt

442–458

Comparative studies on two phases of Archaean TTG magmas from different blocks of the North China Craton: petrogenesis and constraints on crustal evolution

Houxiang Shan, Mingguo Zhai, RN Mitchell, Fu Liu and Jinghui Guo

459–474

Forsterite reprecipitation and carbon dioxide entrapment in the lithospheric mantle during its interaction with carbonatitic melt: a case study from the Sung Valley ultramafic–alkaline–carbonatite complex, Meghalaya, NE India

Shubham Choudhary, Koushik Sen, Santosh Kumar, Shruti Rana and Swakangha Ghosh

475–486

Carbon isotope ($\delta^{13}\text{C}_{\text{carb}}$) stratigraphy of the Early–Middle Ordovician (Tremadocian–Darrivillan) carbonate platform in the Tarim Basin, NW China: implications for global correlations

Xiaoqun Yang, Zhong Li, Tailiang Fan, Zhiqian Gao and Shuai Tang

487–508

A new nektaspid euarthropod from the Lower Ordovician strata of Morocco

Francesc Pérez-Peris, Lukáš Laibl, Lorenzo Lustri, Pierre Gueriau, Jonathan B. Antcliffe, Orla G. Bath Enright and Allison C. Daley

509–517

Ore-forming mechanism and its relationship with deformational and metamorphic episodes at Haimur gold mine, Nubian Shield, Egypt

Mohamed Abd El Monsef and Amr Abdelnasser

518–536

Thermal maturation of a complete magmatic plumbing system at the Sierra de Velasco, Northwestern Argentina

Marcos Macchioli Grande, Pablo Alasino, Juan Dahlquist, Matías Morales Cámara, Carmen Galindo and Miguel Basei

537–554

The Central Sudetic Ophiolite (European Variscan Belt): precise U–Pb zircon dating and geotectonic implications

Marek Awdankiewicz, Ryszard Kryza, Krzysztof Turniak, Maria Ovtcharova and Urs Schaltegger

555–566

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