

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

- Mafic rocks with back-arc E-MORB affinity from the Chotanagpur Granite Gneiss Complex of India: relicts of a Proterozoic Ophiolite suite** 1527–1542
Mansoor Ahmad, Abdul Qayoom Paul, Priyanka Negi, Salim Akhtar, Bibhuti Gogoi and Ashima Saikia
- Natural fractures in tight gas sandstones: a case study of the Upper Triassic Xujiahe Formation in Xinchang gas field, Western Sichuan Basin, China** 1543–1560
Yunzhao Zhang, Lianbo Zeng, Wenya Lyu, Dongsheng Sun, Shuangquan Chen, Cong Guan, Lei Tang, Jinxiong Shi and Junhui Zhang
- Shallow-marine serpentization-derived fluid seepage in the Upper Cretaceous Qahlah Formation, United Arab Emirates** 1561–1571
Benjamin Eickmann, Crispin T. S. Little, Jörn Peckmann, Paul D. Taylor, Adrian J. Boyce, Daniel J. Morgan and Wolfgang Bach
- Detrital zircon geochronology and heavy mineral analysis as complementary provenance tools in the presence of extensive weathering, reworking and recycling: the Neogene of the southern North Sea Basin** 1572–1584
Jasper Verhaegen, Hilmar von Eynatten, István Dunkl and Gert Jan Weltje
- Strain-partitioned dextral transpression in the Great Boundary Fault Zone around Chittaurgarh, NW Indian Shield** 1585–1599
Deepak C. Srivastava, Ajanta Goswami and Amit Sahay
- Timing of fluorite mineralization and exhumation events in the east Central Alborz Mountains, northern Iran: constraints from fluorite (U–Th)/He thermochronometry** 1600–1616
Behnam Shafiei Bafti, István Dunkl and Saeed Madanipour
- Early Cretaceous crust–mantle interaction linked to rollback of the Palaeo-Pacific flat-subducting slab: constraints from the intermediate–felsic volcanic rocks of the northern Great Xing’an Range, NE China** 1617–1638
Jia-Hao Jing, Hao Yang, Wen-Chun Ge, Yu Dong, Zheng Ji, Yan Jing, Jun-Hui Bi and Hong-Ying Zhou
- Genesis of gabbroic intrusions in the Arabian Shield, Saudi Arabia: mineralogical, geochemical and tectonic fingerprints of the Neoproterozoic arc magmatism** 1639–1656
Shehata Ali and Abdullah S. Alshammari
- Tourmaline growth and evolution in S-type granites and pegmatites: constraints from textural, chemical and B-isotopic study from the Gangpur Schist Belt granitoids, eastern India** 1657–1670
Tuhin Chakraborty
- U–Pb and Hf isotope study of detrital zircon and Cr-spinel in the Banavara quartzite and implications for the evolution of the Dharwar Craton, south India** 1671–1682
Bidyananda Maibam, Davide Lenaz, Stephen Foley, Jasper Berndt, Elena Belousova, Monica Wangjam, Jitendra N. Goswami and Argyrios Kapsiotis
- Syn depositional processes in the pigmentation of oceanic red beds: evidence from the Basque–Cantabrian Basin (northern Spain)** 1683–1703
Javier Elorza, Juan José Gómez-Alday and Álvaro Jiménez Berrocoso

RAPID COMMUNICATIONS

- Beyond ‘crumple zones’: recent advances, applications and future directions in deformable plate tectonic modelling** 1704–1710
Alexander L Peace
- Graphite from Palaeoproterozoic enhanced carbon burial, and its metallogenic legacy** 1711–1718
John Parnell, Connor Brolly and Adrian J. Boyce

Cambridge Core

For further information about this journal please go to the journal website at: [cambridge.org/geo](https://doi.org/10.1017/S0016756821000832)



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE
UNIVERSITY PRESS