

CONTENTS

S. HELAMA, L. ARPPE, J. HYVÖNEN, K. MIELIKÄINEN and M. OINONEN: Isoscapes of plant $\delta^{13}\text{C}$ in the northern forests: Addressing the question of inter-tree and -site variability in <i>Pinus sylvestris</i> L. tree rings from Finnish Lapland	287
H. TAO, Z. QIU, H. JI and J. QIU: Geochemistry of the Lower Carboniferous mudrocks in the Dulete arc, northeastern Junggar, China: Implications for paleoweathering, provenance and tectonic setting	299
J. JO, T. YAMANAKA, T. KASHIMURA, Y. OKUNISHI, Y. KUWAHARA, I. KADOTA, Y. MIYOSHI, J. ISHIBASHI and H. CHIBA: Mineral nitrogen isotope signature in clay minerals formed under high ammonium environment conditions in sediment associated with ammonium-rich sediment-hosted hydrothermal system	317
C. TIAN, Y. CHEN, Y. XIA, C. SONG, S. MA, Y. LIU and W. GAO: Characterisation of aromatic hydrocarbons formed from alkane pyrolysis	335
J. SCHIJF and M. C. GARVIN: Validation and application of a new microwave-digestion/ICP-MS method for the analysis of trace metals in tree increment cores	347
W. A. ZAFAR, J. AHMED, A. BARKAT, A. NABI, R. MAHMOOD, S. MANZOOR and T. IQBAL: Spatial mapping of radon: Implication for fault delineation	359
NOTES	
A. IJIRI, K. OKAMURA, J. OHTA, Y. NISHIO, Y. HAMADA, K. IIJIMA and F. INAGAKI: Uptake of porewater phosphate by REY-rich mud in the western North Pacific Ocean	373
Y. HAGIWARA, Y. SOGO, K. TAKAHATA and J. YAMAMOTO: Temperature dependence of CO_2 densimetry using micro-Raman Spectrometry at laboratory conditions	379
EXPRESS LETTER	
A. URAI, K. TAKAHASHI, Y. CHIKARAISHI and K. FUKUSHIMA: Algal-derived 24-ethylcholesta-5,22-dien-3 β -ol (stigmasterol) is frequently found in high-molecular-weight dissolved organic matter (HMW-DOM) during summer in freshwater and brackish lakes	e15