



ELSEVIER

LITHOS

An International Journal of Petrology,
Geochemistry and Mineralogy

VOLUMES 175–176
15 AUGUST 2013
ISSN 0024-4937



www.elsevier.com/locate/lithos

Lithos

Volumes 175–176, Pages 1-354 (15 August 2013)

Editorial Board

Page IFC

Research Papers

A two-stage exhumation in Western French Massif Central: New geochronological evidences of syn-collisional extension

Original Research Article

Pages 1-15

Christian Le Carlier de Veslud, Paul Alexandre, Gilles Ruffet, Michel Cuney, Alain Cheilletz

Evolution of rodingites along stratigraphic depth in the Ili and Kallidromon ophiolites (Central Greece)

Original Research Article

Pages 16-29

Basilios Tsikouras, Sofia Karipi, Konstantin Hatzipanagiotou

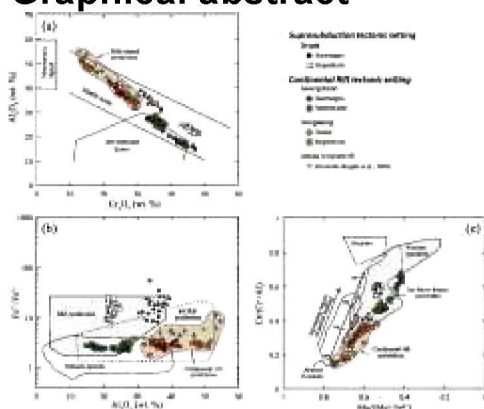
Two ultramafic rock types in the Hongseong area, South Korea: Tectonic significance for northeast Asia

Original Research Article

Pages 30-39

J. Seo, C.W. Oh, S.G. Choi, V.J. Rajesh

Graphical abstract



Migmatites in the Ivrea Zone (NW Italy): Constraints on partial melting and melt loss in metasedimentary rocks from Val Strona di Omega

Original Research Article

Pages 40-53


Charlotte Redler, Richard W. White, Tim E. Johnson

Behavior of trace elements in quartz from plutons of different geochemical signature: A case study from the Bohemian Massif, Czech Republic

Original Research Article

Pages 54-67

Karel Breiter, Lukáš Ackerman, Martin Svojtka, Axel Müller

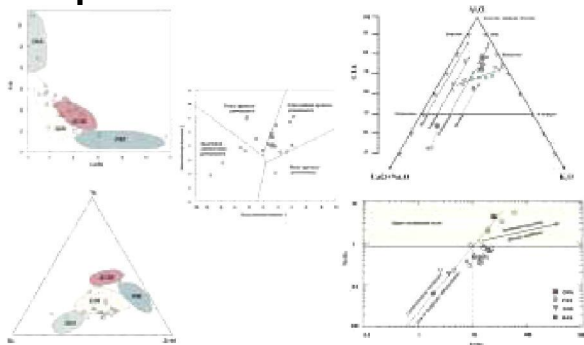
7  **Geochemistry of the Neoproterozoic metasediments of Malhaq and Um Zariq formations, Kid metamorphic complex, Sinai, Egypt: Implications for source-area weathering, provenance, recycling, and depositional tectonic setting**

Original Research Article

Pages 68-85

Mohammed Zaky El-Bialy

Graphical abstract




8  **Long-lived LREE mobility in the cratonic, rift and foredeep to foreland sedimentary cover at the western margin of the Karelia Province**

Original Research Article

Pages 86-103

Raimo Lahtinen, Hannu Huhma, Yann Lahaye, Asko Kontinen, Jarmo Kohonen, Bo Johanson

9  **SHRIMP U–Pb zircon geochronology and thermal modeling of multilayer granitoid intrusions: Implications for the building and thermal evolution of the Central System batholith, Iberian Massif, Spain**

Original Research Article

Pages 104-123

Juan Díaz Alvarado, Carlos Fernández, Antonio Castro, Ignacio Moreno-Ventas

10  **Early Paleozoic crustal anatexis in the intraplate Wuyi–Yunkai orogen, South China**

Original Research Article

Pages 124-145

Dan Wang, Jianping Zheng, Qiang Ma, William L. Griffin, Huan Zhao, Jean Wong

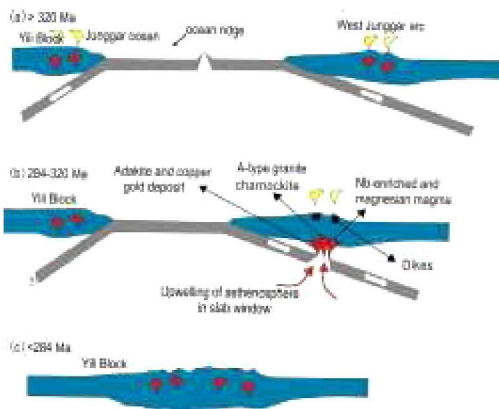
11  **A Late Carboniferous–Early Permian slab window in the West Junggar of NW China: Geochronological and geochemical evidence from mafic to intermediate dikes**

Original Research Article

Pages 146-162

Jiyuan Yin, Xiaoping Long, Chao Yuan, Min Sun, Guochun Zhao, Hongyan Geng

Graphical abstract



12 **Eruption-triggered mixing of extra-caldera basalt and rhyolite complexes along the East Gallatin–Washburn fault zone, Yellowstone National Park, WY, USA**

Original Research Article

Pages 163-177

C.J. Pritchard, P.B. Larson, T.L. Spell, K.D. Tarbert

13 **Electron-microprobe Th–U–Pb monazite dating in Early-Palaeozoic high-grade gneisses as a completion of U–Pb isotopic ages (Wilson Terrane, Antarctica)**

Original Research Article

Pages 178-192

B. Schulz, U. Schüssler

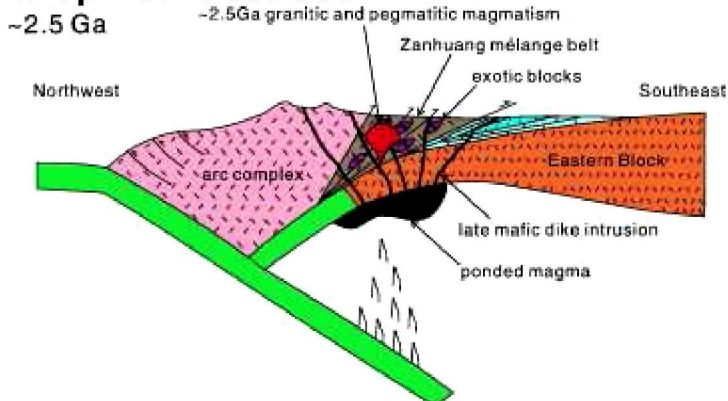
14 **Geochemistry of Neoproterozoic mafic volcanic rocks and late mafic dikes in the Zhanhuang Complex, Central Orogenic Belt, North China Craton: Implications for geodynamic setting**

Original Research Article

Pages 193-212

Hao Deng, Timothy Kusky, Ali Polat, Lu Wang, Junpeng Wang, Songjie Wang

Graphical abstract



15 **Petrogenesis and geodynamic implications of the Gejiu igneous complex in the western Cathaysia block, South China**

Original Research Article

Pages 213-229

Yanbo Cheng, Jingwen Mao, Carl Spandler

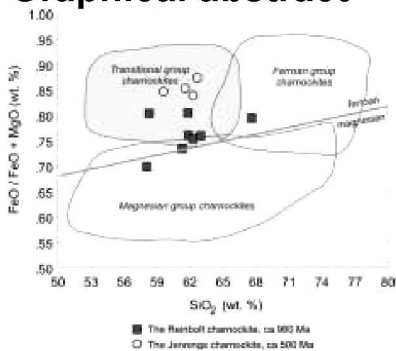
16 **Recurrent transitional group charnockites in the east Amery Ice Shelf coast (East Antarctica): Petrogenesis and implications on tectonic evolution**

Original Research Article

Pages 230-243

E.V. Mikhalsky, I.A. Kamenev

Graphical abstract



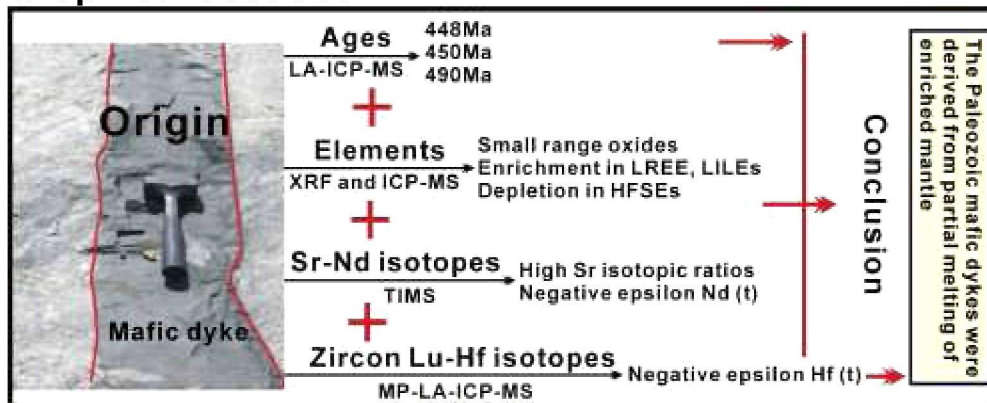
17 **Zircon U–Pb age, geochemical, and Sr–Nd–Hf isotopic constraints on the origin of mafic dykes in the Shaanxi Province, North China Craton, China**

Original Research Article

Pages 244-254

Shen Liu, Caixia Feng, Bor-ming Jahn, Ruizhong Hu, Shan Gao, Ian M. Coulson, Guangying Feng, Shaocong Lai, Chaogui Yang, Yuhong Yang

Graphical abstract



18 **Deformation associated to exhumation of serpentinized mantle rocks in a fossil Ocean Continent Transition: The Totalp unit in SE Switzerland**

Original Research Article

Pages 255-271

S. Picazo, G. Manatschal, M. Cannat, M. Andréani

19 **Pressure–temperature and deformational evolution of high-pressure metapelites from Variscan NE Sardinia, Italy**

Original Research Article

Pages 272-284

Gabriele Cruciani, Marcello Franceschelli, Hans-Joachim Massonne, Rodolfo Carosi, Chiara Montomoli

20 **Petrogenesis and tectonic implications of the Triassic volcanic rocks in the northern Yidun Terrane, Eastern Tibet**

Original Research Article

Pages 285-301

Bai-Qiu Wang, Mei-Fu Zhou, Wei Terry Chen, Jian-Feng Gao, Dan-Ping Yan

21 **Magmatism and metamorphism linked to the accretion of continental blocks south of the Hindu Kush, Afghanistan**

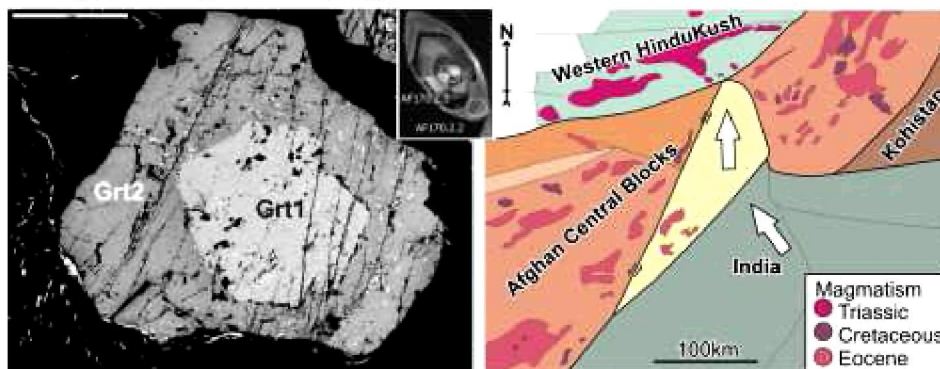
Original Research Article

Pages 302-314

Shah Wali Faryad, Stephen Collett, Mike Petterson, Sergey A. Sergeev

Graphical abstract

Polymetamorphism and age constraint in the Western Hindu Kush



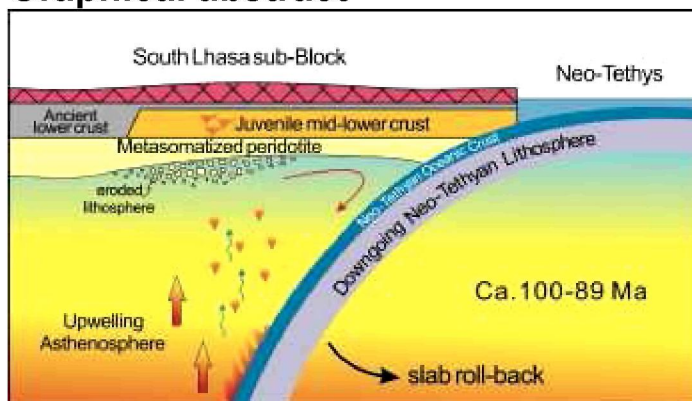
22 **Late Cretaceous (100–89 Ma) magnesian charnockites with adakitic affinities in the Milin area, eastern Gangdese: Partial melting of subducted oceanic crust and implications for crustal growth in southern Tibet**

Original Research Article

Pages 315-332

Lin Ma, Qiang Wang, Derek A. Wyman, Zheng-Xiang Li, Zi-Qi Jiang, Jin-Hui Yang, Guo-Ning Gou, Hai-Feng Guo

Graphical abstract



23 **Petrogenesis and geochronology of Cretaceous adakitic, I- and A-type granitoids in the NE Yangtze block: Constraints on the eastern subsurface boundary between the North and South China blocks**

Original Research Article

Pages 333-350

Yuping Su, Jianping Zheng, William L. Griffin, Junhong Zhao, Suzanne Y. O'Reilly, Huayun Tang, Xianquan Ping, Qing Xiong

Discussion Papers

24  **Comment — Origin of enclaves in S-type granites of the Lachlan Fold Belt**

Pages 351-352

J.D. Clemens, M.A. Elburg

25  **Reply — Origin of enclaves in S-type granites of the Lachlan Fold Belt**

Pages 353-354

Doone Wyborn