



LITHOS

An International Journal of Petrology,
Geochemistry and Mineralogy

VOLUMES 172–173
JULY 2013
ISSN 0024-4937



www.elsevier.com/locate/lithos

Lithos

Volumes 172–173, Pages 1-288 (July 2013)

Editorial Board

Page IFC

Research Papers

Rapid forearc spreading between 130 and 120 Ma: Evidence from geochronology and geochemistry of the Xigaze ophiolite, southern Tibet

Original Research Article

Pages 1-16

Jingen Dai, Chengshan Wang, Ali Polat, M. Santosh, Yalin Li, Yukui Ge

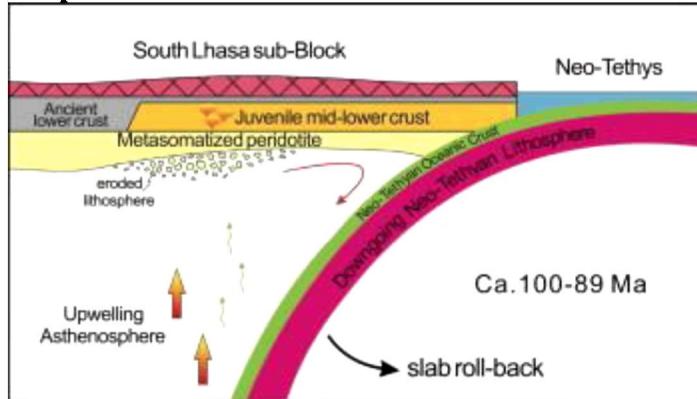
Early Late Cretaceous (ca. 93 Ma) norites and hornblendites in the Milin area, eastern Gangdese: Lithosphere–asthenosphere interaction during slab roll-back and an insight into early Late Cretaceous (ca. 100–80 Ma) magmatic “flare-up” in southern Lhasa (Tibet)

Original Research Article

Pages 17-30

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

Graphical abstract



The Eldivan ophiolite and volcanic rocks in the Izmir-Ankara-Erzincan suture zone, Northern Turkey: Geochronology, whole-rock geochemical and

Nd-Sr-Pb isotope characteristics

Original Research Article

Pages 31-46

Ömer Faruk Çelik, Massimo Chiaradia, Andrea Marzoli, Zeki Billor, Robert Marschik

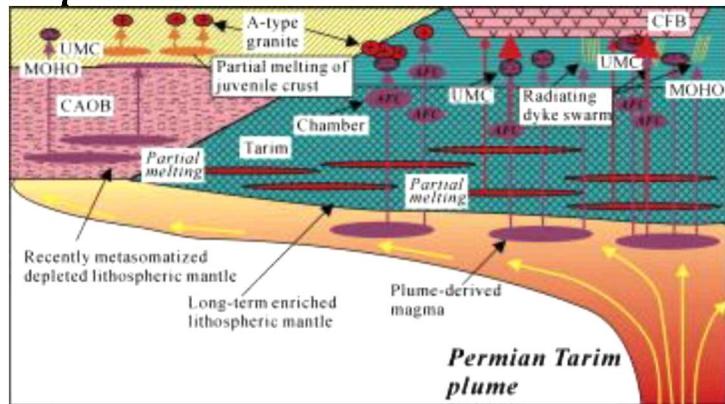
Permian A-type granites in Tarim and western part of Central Asian Orogenic Belt (CAOB): Genetically related to a common Permian mantle plume?

Original Research Article

Pages 47-60

Chuan-Lin Zhang, Hai-Bo Zou

Graphical abstract



Melting of plagioclase + spinel lherzolite at low pressures (0.5 GPa): An experimental approach to the evolution of basaltic melt during mantle refertilisation at shallow depths

Original Research Article

Pages 61-80

Françoise Chalot-Prat, Trevor J. Falloon, David H. Green, William O. Hibberson

The Indosinian collision-extension event between the South China Block and the Palaeo-Pacific plate: Evidence from Indosinian alkaline granitic rocks in Dashuang, eastern Zhejiang, South China

Original Research Article

Pages 81-97

Jianren Mao, Haimin Ye, Kai Liu, Zilong Li, Yutaka Takahashi, Xilin Zhao, Weon-Seo Kee

Petrogenesis of the post-collisional volcanic rocks from the Borçka (Artvin) area: Implications for the evolution of the Eocene magmatism in the

Eastern Pontides (NE Turkey)

Original Research Article

Pages 98-117

Emre Aydinçakır, Cüneyt Şen

Mineralogical and geochemical constraints on contribution of magma mixing and fractional crystallization to high-Mg adakite-like diorites in eastern Dabie orogen, East China

Original Research Article

Pages 118-138

Chao Zhang, Changqian Ma, Francois Holtz, Jürgen Koepke, Paul Eric Wolff, Jasper Berndt

Subduction-related rodingites from East Othris, Greece: Mineral reactions and physicochemical conditions of formation

Original Research Article

Pages 139-157

Petros Koutsovitis, Andreas Maggnas, Panagiotis Pomonis, Theodoros Ntaflos

Petrology and geochemistry of the early Mesozoic pyroxene andesites in the Maixiu Area, West Qinling, China: Products of subduction or syn-collision?

Original Research Article

Pages 158-174

Xiao-Wei Li, Xuan-Xue Mo, Xue-Hui Yu, Yi Ding, Xiong-Fei Huang, Ping Wei, Wen-Yan He

Timing of HP metamorphism in the Schistes Lustrés of Alpine Corsica: New Lu-Hf garnet and lawsonite ages

Original Research Article

Pages 175-191

Alberto Vitale Brovarone, Daniel Herwartz

Mineral chemistry of Rare Earth Element (REE) mineralization, Browns Ranges, Western Australia

Original Research Article

Pages 192-213

Nigel J. Cook, Cristiana L. Ciobanu, Daniel O'Rielly, Robin Wilson, Kevin Das, Benjamin Wade

Ion microprobe dating of zircons from active Dayingshan volcano,

Tengchong, SE Tibetan Plateau: Time scales and nature of magma chamber storage

Original Research Article

Pages 214-221

Ross T. Tucker, Haibo Zou, Qicheng Fan, Axel K. Schmitt

Mafic dykes intrusives into Pre-Cambrian rocks of the São Luís cratonic fragment and Gurupi Belt (Parnaíba Province), north-northeastern Brazil: Geochemistry, Sr-Nd-Pb-O isotopes, $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology, and relationships to CAMP magmatism

Original Research Article

Pages 222-242

Evandro L. Klein, Rômulo S. Angélica, Chris Harris, Fred Jourdan, Marly Babinski

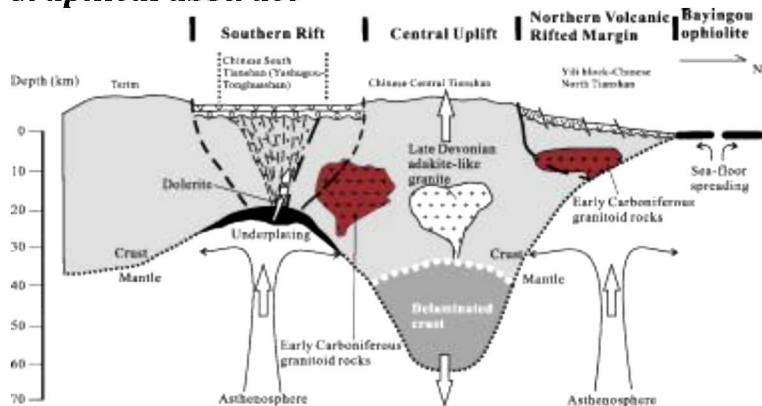
Zircon ages of metamorphic and magmatic rocks within peridotite-bearing mélange: Crucial time constraints on early Carboniferous extensional tectonics in the Chinese Tianshan

Original Research Article

Pages 243-266

Ping Jian, Alfred Kröner, Bor-ming Jahn, Dunyi Liu, Wei Zhang, Yuruo Shi, Huadong Ma

Graphical abstract



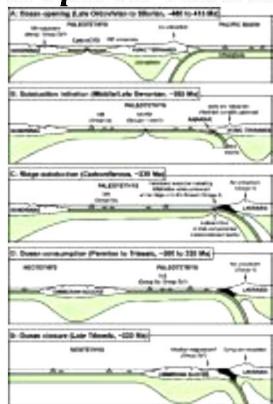
Paleozoic to Triassic ocean opening and closure preserved in Central Iran: Constraints from the geochemistry of meta-igneous rocks of the Anarak area

Original Research Article

Pages 267-287

David M. Buchs, Sasan Bagheri, Laure Martin, Joerg Hermann, Richard Arculus

Graphical abstract



Highlights

- Chemical and petrographic analysis of meta-igneous rocks from Central Iran.
- The rocks outline several constructional phases in an ancient accretionary complex.
- The accretionary complex records the evolution of a long-lived oceanic system.