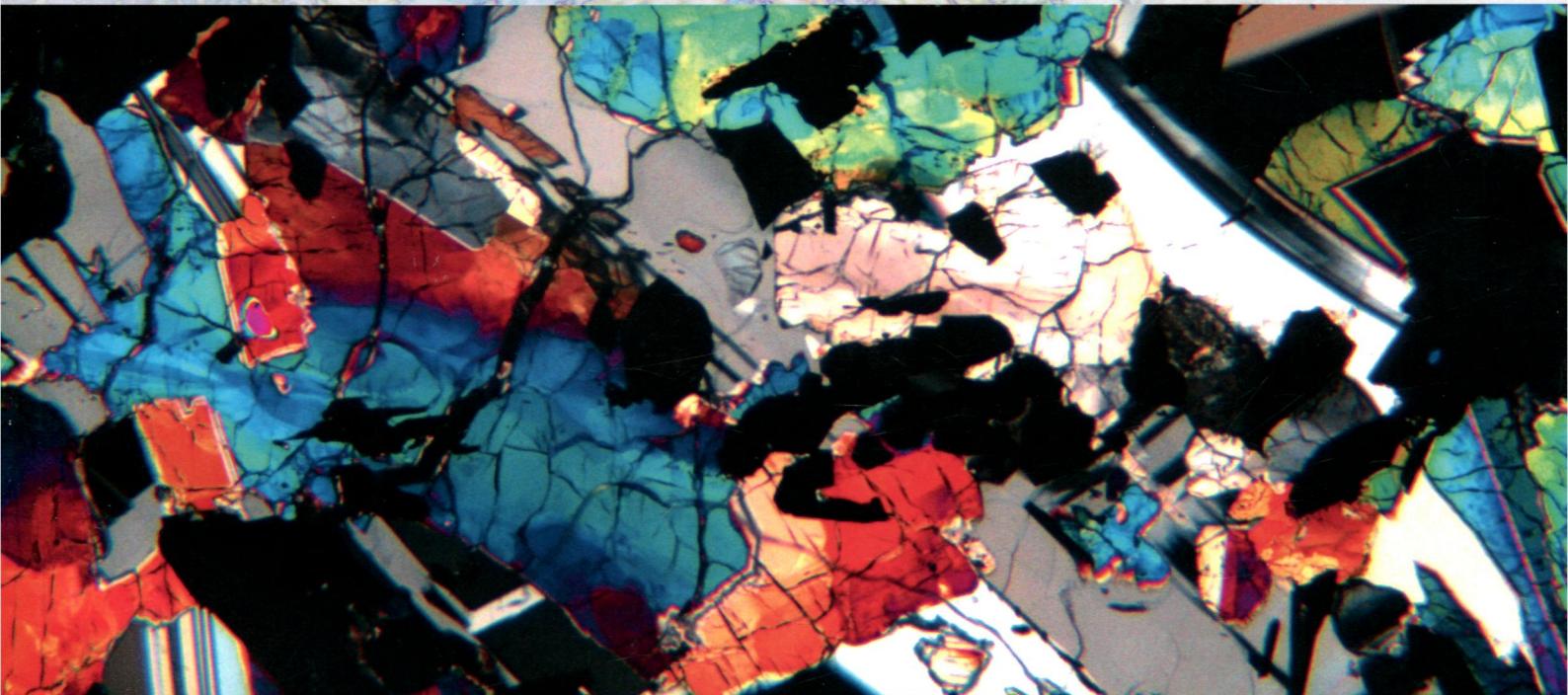




LITHOS

An International Journal of Petrology,
Geochemistry and Mineralogy

VOLUMES 184–187
JANUARY 2014
ISSN 0024-4937



www.elsevier.com/locate/lithos

(Abstracted/Indexed in: AGI's *Bibliography and Index of Geology*, *Bulletin Signalétique*, *Chemical Abstracts*, *Current Contents*, *Geo Abstracts*, and *Mineralogical Abstracts*. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®)

Invited Review Paper

A petrologic assessment of internal zonation in granitic pegmatites

D. London 74

Review paper

A two-component mantle source feeding Mt. Etna magmatism: Insights from the geochemistry of primitive magmas

A. Correale, A. Paonita, M. Martelli, A. Rizzo, S.G. Rotolo, R.A. Corsaro and V. Di Renzo 243

Regular Articles

Geochronology and geochemistry of Early–Middle Triassic magmatism in the Erguna Massif, NE China: Constraints on the tectonic evolution of the Mongol–Okhotsk Ocean

J. Tang, W.-L. Xu, F. Wang, W. Wang, M.-J. Xu and Y.-H. Zhang 1

In situ U–Pb zircon geochronology of Neogene garnet-bearing lavas from Slovakia (Carpatho-Pannonian region, Central Europe)

J. Bouloton and J.L. Paquette 17

Source characteristics and tectonic setting of the Early and Middle Devonian volcanic rocks in the North Junggar, Northwest China: Insights from Nd–Sr isotopes and geochemistry

X. Liu and W. Liu 27

Relationship between microstructures and grain-scale trace element distribution in komatiite-hosted magmatic sulphide ores

Z. Vukmanovic, S.M. Reddy, B. Godel, S.J. Barnes, M.L. Fiorentini, S.-J. Barnes and M.R. Kilburn 42

Topaz magmatic crystallization in rhyolites of the Central Andes (Chivinar volcanic complex, NW Argentina): Constraints from texture, mineralogy and rock chemistry

A. Gioncada, P. Orlandi, L. Vezzoli, R.H. Omarini, R. Mazzuoli, V. Lopez-Azarevich, R. Sureda, M. Azarevich, V. Acocella and J. Ruch 62

Episodic magmatism at 105 Ma in the Kinki district, SW Japan: Petrogenesis of Nb-rich lamprophyres and adakites, and geodynamic implications

T. Imaoka, K. Nakashima, A. Kamei, T. Itaya, T. Ohira, M. Nagashima, N. Kono and M. Kiji 105

Neoproterozoic Cana Brava chrysotile deposit (Goiás, Brazil): Geology and geochemistry of chrysotile vein formation

J.C. Biondi 132

U–Th–Pb dating of collision in the external Alpine domains (Urseren zone, Switzerland) using low temperature allanite and monazite

E. Janots and D. Rubatto 155

Petrogenesis of Late Paleozoic volcanics from the Zhaheba depression, East Junggar: Insights into collisional event in an accretionary orogen of Central Asia

D. Li, D.-f. He, M. Santosh and J.-y. Tang 167

Open magma chamber processes in the formation of the Permian Baima mafic–ultramafic layered intrusion, SW China

P.-P. Liu, M.-F. Zhou, C.Y. Wang, C.-M. Xing and J.-F. Gao 194

Superplume metasomatism: Evidence from Siberian mantle xenoliths

G.H. Howarth, P.H. Barry, J.F. Pernet-Fisher, I.P. Baziotis, N.P. Pokhilko, L.N. Pokhilko, R.J. Bodnar, L.A. Taylor and A.M. Agashev 209

Clinopyroxene and amphibole crystal populations in a lamprophyre sill from the Catalonian Coastal Ranges (NE Spain): A record of magma history and a window to mineral-melt partitioning

T. Ubide, C. Galé, E. Arranz, M. Lago and P. Larrea 225

(contents continued on inside back cover)



0024-4937(201401)184-187C;1-N

Available online at www.sciencedirect.com

ScienceDirect



(contents continued)

| | |
|--|-----|
| Paleoproterozoic tectonic transition from collision to extension in the eastern Cathaysia Block, South China: Evidence from geochemistry, zircon U–Pb geochronology and Nd–Hf isotopes of a granite–charnockite suite in southwestern Zhejiang | 259 |
| L. Zhao, X. Zhou, M. Zhai, M. Santosh, X. Ma, H. Shan and X. Cui | |
| Relationship of Mediterranean type lamproites to large shoshonite volcanoes, Miocene of Lesbos, NE Aegean Sea | 281 |
| G. Pe-Piper, Y. Zhang, D.J.W. Piper and D. Prelević | |
| From enriched to depleted mantle: Evidence from Cretaceous lamprophyres and Paleogene basaltic rocks in eastern and central Guangxi Province, western Cathaysia block of South China | |
| X.-Y. Li, J.-P. Zheng, Q. Ma, Q. Xiong, W.L. Griffin and J.-G. Lu | 300 |
| Geochronology, petrogenesis and tectonic significance of the Jitang granitic pluton in eastern Tibet, SW China | |
| Y. Tao, X. Bi, C. Li, R. Hu, Y. Li and M. Liao | 314 |
| Petrogenesis of Tarom high-potassic granitoids in the Alborz–Azarbaijan belt, Iran: Geochemical, U–Pb zircon and Sr–Nd–Pb isotopic constraints | |
| G. Nabatian, M. Ghaderi, F. Neubauer, M. Honarmand, X. Liu, Y. Dong, S.-Y. Jiang, A. von Quadt and M. Bernroder | 324 |
| Metasomatic hydration of the Oeyama forearc peridotites: Tectonic implications | |
| T. Nozaka | 346 |
| Construction of Late Devonian Dundunshan arc in the Beishan orogen and its implication for tectonics of southern Central Asian Orogenic Belt | |
| Q. Guo, W. Xiao, Q. Hou, B.F. Windley, C. Han, Z. Tian and D. Song | 361 |
| Peri-Amazonian provenance of the Proto-Pelagonian basement (Greece), from zircon U–Pb geochronology and Lu–Hf isotopic geochemistry | |
| O. Zlatkin, D. Avigad and A. Gerdes | 379 |
| Petrogenesis of Early Cretaceous post-collisional granitoids at Shapinggou, Dabie Orogen: Implications for crustal architecture and porphyry Mo mineralization | |
| G.-G. Wang, P. Ni, W. Yu, H. Chen, L.-L. Jiang, B.-H. Wang, H.-D. Zhang and P.-F. Li | 393 |
| Early Paleozoic crust–mantle interaction and lithosphere delamination in South China Block: Evidence from geochronology, geochemistry, and Sr–Nd–Hf isotopes of granites | |
| Y. Xia, X. Xu, H. Zou and L. Liu | 416 |
| Early Permian to Late Triassic batholiths of the Chilean Frontal Cordillera (28°–31°S): SHRIMP U–Pb zircon ages and Lu–Hf and O isotope systematics | |
| F. Hervé, C.M. Fanning, M. Calderón and C. Mpodozis | 436 |
| The volatile flushing triggers eruptions at open conduit volcanoes: Evidence from Mount Etna volcano (Italy) | |
| C. Ferlito, M. Coltorti, G. Lanzafame and P.P. Giacomoni | 447 |
| Rare earths and other trace elements in minerals from skarn assemblages, Hillside iron oxide–copper–gold deposit, Yorke Peninsula, South Australia | |
| R. Ismail, C.L. Ciobanu, N.J. Cook, G.S. Teale, D. Giles, A.S. Mumm and B. Wade | 456 |
| Distribution and behaviour during metasomatism of PGE–Re and Os isotopes in off-craton mantle xenoliths from Namibia | |
| S. Aulbach, T. Luchs and G.P. Brey | 478 |
| <i>Erratum</i> | |
| Erratum to “First description of a metamorphic sole related to ophiolite obduction in the northern Caribbean: Geochemistry and petrology of the Güira de Jauco amphibolite complex (eastern Cuba) and tectonic implications” [Lithos 179 (2013) 193–210] | |
| C. Lázaro, I.F. Blanco-Quintero, Y. Rojas-Agramonte, J.A. Proenza, K. Núñez-Cambra and A. García-Casco | 491 |