

Mineralogy and Petrology

Vol. 108, No. 6, 2014

ORIGINAL PAPERS

Coupling thermodynamic modeling and high-resolution in situ LA-ICP-MS monazite geochronology: evidence for Barrovian metamorphism late in the Grenvillian history of southeastern Ontario

T. McCarron · F. Gaidies · C.R.M. McFarlane · R.M. Easton · P. Jones 741

Stable (H, O, C) and noble-gas (He and Ar) isotopic compositions from calcite and fluorite in the Speewah Dome, Kimberley Region, Western Australia: implications for the conditions of crystallization and evidence for the influence of crustal-mantle fluid mixing

G. Czuppon · R.R. Ramsay · I. Özgenc · A. Demény · L.G. Gwalani · K. Rogers · A. Eves · L. Papp · L. Palcsu · M. Berkesi · P.J. Downes 759

Fractional crystallization and magma mixing: evidence from porphyritic diorite-granodiorite dykes and mafic microgranular enclaves within the Zhoukoudian pluton, Beijing

J.-Y. Zhang · C.-Q. Ma · C. Zhang · J.-W. Li 777

Trace elemental and Nd-Sr-Pb isotopic compositional variation in 37 lava flows of the Mandla lobe and their chemical relation to the western Deccan stratigraphic succession, India

J.P. Shrivastava · J.J. Mahoney · M.R. Kashyap 801

Alteration patterns of chromian spinels from La Cabaña peridotite, south-central Chile

F. Barra · F. Gervilla · E. Hernández · M. Reich · J.A. Padrón-Navarta · J.M. González-Jiménez 819

United Arab Emirates limestones: impact of petrography on thermal behavior

S. Alaabed · A.M. Soltan · O. Abdelghany · B.E.M. Amin · M. El Tokhi · A. Khaleel · A. Musalim 837

Gold-telluride-sulfide association in the Sandaowanzi epithermal Au-Ag-Te deposit, NE China: implications for phase equilibrium and physicochemical conditions

D. Zhai · J. Liu 853

Trace and minor elements in sphalerite from metamorphosed sulphide deposits

J.A. Lockington · N.J. Cook · C.L. Ciobanu 873

Further articles can be found at link.springer.com

Abstracted/indexed in *Science Citation Index*, *Science Citation Index Expanded (SciSearch)*, *Journal Citation Reports/Science Edition*, *SCOPUS*, *INSPEC*, *Astrophysics Data System (ADS)*, *Chemical Abstracts Service (CAS)*, *Google Scholar*, *EBSCO*, *CSA*, *Academic OneFile*, *Academic Search*, *ASFA*, *CSA Environmental Sciences*, *Current Contents/Physical, Chemical and Earth Sciences*, *Gale*, *GeoRef*, *INIS Atomindex*, *International Bibliography of Book Reviews (IBR)*, *International Bibliography of Periodical Literature (IBZ)*, *OCLC*, *Referativnyi Zhurnal (VINITI)*, *SCImago*, *Summon by ProQuest*.

Instructions for Authors for *Miner Petrol* are available at www.springer.com/710.