

NU
0-70/g



VOLUME 54

OCTOBER 2013

ISSN: 0169-1368

ORE GEOLOGY REVIEWS

Journal for Comprehensive Studies of
Ore Genesis and Ore Exploration

Affiliated with the International Association on the Genesis of Ore Deposits
(IAGOD)

Editor-in-Chief
Franco Pirajno



(Abstracted/indexed in: Current Contents, Mineralogical Abstracts, Geo Abstracts and Engineering Information Inc. Also covered in the abstract and citation database SciVerse Scopus®. Full text available on SciVerse ScienceDirect®.)

Review Article

A review of the geological characteristics and mineralization history of iron deposits in the Altay orogenic belt of the Xinjiang, Northwest China

F. Yang, J. Mao, F. Liu, F. Chai, X. Geng, Z. Zhang, X. Guo and G. Liu 1

Research Articles

Sulfur and lead isotopes of Guern Halfaya and Bou Grine deposits (Domes zone, northern Tunisia): Implications for sources of metals and timing of mineralization

N. Jemmali, F. Souissi, E.J.M. Carranza and T.W. Vennemann 17

Gold occurrences of the Archean North Atlantic craton, southwestern Greenland: A comprehensive genetic model

J. Kolb, A. Dziggel and D.M. Schlatter 29

Segregation of magmatic fluids and their potential in the mobilization of platinum-group elements in the South Kawishiwi Intrusion, Duluth Complex, Minnesota — Evidence from petrography, apatite geochemistry and coexisting fluid and melt inclusions

B. Gál, F. Molnár, T. Guzmics, A. Mogessie, C. Szabó and D.M. Peterson 59

Multiple fluid sources/pathways and severe thermal gradients during formation of the Jílové orogenic gold deposit, Bohemian Massif, Czech Republic

J. Zachariáš, K. Žák, M. Pudilová and L.W. Snee 81

Bonanza-grade accumulations of gold tellurides in the Early Cretaceous Sandawanzi deposit, northeast China

J. Liu, S. Zhao, N.J. Cook, X. Bai, Z. Zhang, Z. Zhao, H. Zhao and J. Lu 110

Characterization of the Sündikendağı deposit of moganite-rich, blue chalcedony nodules, Mayıslar–Sarıçakaya (Eskişehir), Turkey

M. Hatipoğlu, S.C. Chamberlain and Y. Kibici 127

Magmatism and metallogeny associated with mantle upwelling: Zircon U–Pb and Lu–Hf constraints from the gold-mineralized Jinchang granite, NE China

H.-F. Zhang, S.-R. Li, M. Santosh, J.-J. Liu, C.-R. DiWu and H. Zhang 138

Quantified spatial relationships between gold mineralisation and key ore genesis controlling factors, and predictive mineralisation mapping, St Ives Goldfield, Western Australia

Y. Liu, Z.-X. Li, C. Laukamp, G. West and S. Gardoll 157

Metamorphosed Pb–Zn–(Ag) ores of the Keketale VMS deposit, NW China: Evidence from ore textures, fluid inclusions, geochronology and pyrite compositions

Y. Zheng, L. Zhang, Y.-j. Chen, P. Hollings and H.-y. Chen 167

(contents continued on inside backcover)

Available online at www.sciencedirect.com

SciVerse ScienceDirect

Important Note to Authors

Online submission is now available for this journal: to submit your article online, go to <http://ees.elsevier.com/orgeo>. Instructions on how to submit a manuscript to the journal can be found in the Guide for Authors on the journal homepage at <http://www.elsevier.com/locate/orgeorev>.



0169-1368(201310)54;1-L

(contents continued from outside back cover)

Detection of hydrothermal alteration zones in a tropical region using satellite remote sensing data: Bau goldfield, Sarawak, Malaysia A.B. Pour, M. Hashim and J. van Genderen	181
Geochemical signatures of uranium oxides in the Lufilian belt: From unconformity-related to syn-metamorphic uranium deposits during the Pan-African orogenic cycle A. Eglinger, A.-S. André-Mayer, O. Vanderhaeghe, J. Mercadier, M. Cuney, S. Decrée, J.-L. Feybesse and J.-P. Milesi	197
Mineral chemistry of hydrothermal biotite from the Kahang porphyry copper deposit (NE Isfahan), Central Province of Iran S.Z. Afshooni, H. Mirnejad, D. Esmaeily and H.A. Haroni	214