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RESEARCH ARTICLE | JUNE 01, 2012

Geochemical Evolution of the Banded Iron Formation-Hosted High-Grade Iron Ore System in the Koolyanobbing Greenstone Belt, Western Australia*

Thomas Angerer, Steffen G. Hagemann, Leonid V. Danvushvsky

Economic Geology (2012) 107 (4): 599-644.

<https://doi.org/10.2113/econgeo.107.4.599> Article history ©

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Abstract

The banded iron formation (BIF)-hosted iron ore deposits in the lower greenschist succession of the Koolyanobbing greenstone belt, 50 km north of Southern Cross in Western Australia, are a ~200 Mt high-grade Fe (>58%) pre-mining resource and represents one of the most important iron ore districts in the Yilgarn craton. Four hypogene alteration (ore-forming) stages and one supergene upgrading event took place: (1) During ore stage 1, LREE-depleted, transition metal-enriched, Mg-Fe (+Ca) carbonates replaced quartz in BIFs. The deposit-scale alteration was most likely induced by devolatilization of sea-floor-altered, Ca-Si-depleted mafic rocks in the vicinity of the BIF during early regional (syn-D₁), very low to low-grade metamorphism and was most strongly developed on reactivated BIF-basalt contacts. (2) Ore stage 2 involved the formation of patchy magnetite ore by a syn-D₂ to -D₄ dissolution of early carbonate. Enrichment of Fe₂O₃total in magnetite iron ore was by a factor of 2 to 2.4, and compatible trace elements in magnetite, such as Ga, V, and Al, were immobile. A subdeposit-scale ferroan talc-footprint proximal to magnetite iron ore in the largest deposit (K deposit) was associated with ore stage 2 and resulted from dissolution of magnesite due to reaction with silica in the BIF under greenschist facies conditions and potentially high fluid/rock ratio. (3) Magnetite growth, during ore stage 3, forming granular magnetite-maritite ore is related to a subsequent hydrothermal event, occurring locally throughout the belt, especially in D₂₅ faults. (4) Ore stage 4 was associated with Fe-Ca-P-(L)REE-Y-enriched hydrothermal fluids, possibly from a magmatic source such as the postmetamorphic Lake Seabrook granite that crops out about 10 km west of the Koolyanobbing deposits and at the southern margin of the greenstone belt. These Ca-enriched fluids interacted with distal metamorphosed mafic rock and influenced the BIF-ore system in a small number of deposits. They were channelled through regional D₄ faults and caused specularite-

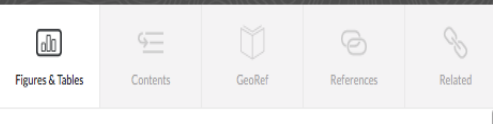
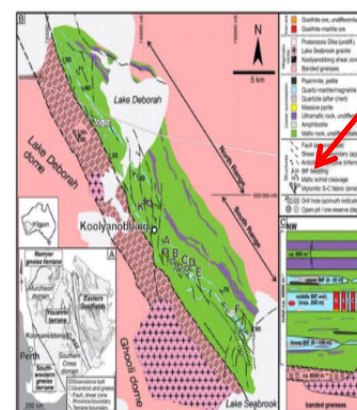


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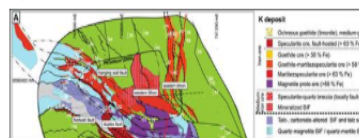


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Geologic map of the Koolyanobbing greenstone belt: (A) insert showing the Yilgarn craton (KSZ = Koolyanobbing shear zone), (B) simplified geologic map of the Koolyanobbing greenstone belt, and (C) lithostratigraphic column of the lower greenstone succession (Cassidy et al., 2006) in the Koolyanobbing greenstone belt.

Fig. 2



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BOOK CHAPTER

Tectonic Processes and Metallogeny along the Tethyan Mountain Ranges of the Middle East and South Asia (Oman, Himalaya, Karakoram, Tibet, Myanmar, Thailand, Malaysia)

By: Michael P. Searle; Laurence J. Robb; Nicholas J. Gardiner;

DOI: <https://doi.org/10.5382/SP.19.12>

Published: January 01, 2016

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Corresponding author: e-mail, mike.searle@earth.ox.ac.uk

Present address: Centre for Exploration Targeting-Curtin Node, Department of Applied Geology, Western Australian School of Mines, Curtin University, Perth, WA 6102, Australia.

Abstract

The genesis of mineral deposits has been widely linked to specific tectonic settings, but has less frequently been linked to tectonic processes. Understanding processes of oceanic and continental collision tectonics is crucial to understanding key factors leading to the genesis of magmatic, metamorphic, hydrothermal, and sedimentary-related mineral deposits. Geologic studies of most ore deposits typically focus on the final stages of concentration and emplacement. The ultimate source (mantle, lower crust, upper crust) of mineral deposits in many cases remains more cryptic. Uniquely, along the Tethyan collision zones of Asia, every stage of the convergence process can be studied from the initial oceanic settings where ophiolite complexes were formed, through subduction zone and island-arc settings with ultrahigh- to high-pressure metamorphism, to the continental collision settings of the Himalaya, and advanced, long-lived collisional settings such as Afghanistan, the Karakoram Ranges, and the Tibetan plateau. The India-Asia collision closed the intervening Neotethys ocean at ~50 Ma and resulted in the formation of the Himalayan mountain ranges, and increased crustal thickening, metamorphism, deformation, and uplift of the Karakoram-Hindu Kush ranges, Tibetan plateau, and older collision zones across central Asia. Metallogensis in oceanic crust (hydrothermal Cu-Au; Fe, Mn nodules) and mantle (Cr, Ni, Pt) can be deduced from ophiolite complexes preserved around the Arabia/India-Asia collision (Oman, Ladakh, South Tibet, Myanmar, Andaman Islands). Tectonic-metallogenic processes in island arcs and ancient subduction complexes (VMS Cu-Zn-Pb) can be deduced from studies in the Dras-Kohistan arc (Pakistan) and

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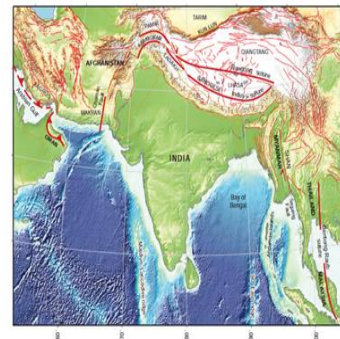
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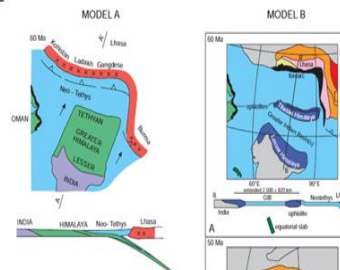


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Digital elevation model of the Middle East and Asia, showing the major tectonic features.

Fig. 2.





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Feng Hongye, Mao Yajing, Qin Kezhong, Tang Dongmei, Xue Shengchao

Publisher: Elsevier

Published: 01 November 2016

Content URL: <http://www.sciencedirect.com/science/journal/13679120>

...and sulfide immiscibility history of the Permian Huangshannan magmatic Ni-Cu sulfide deposit, East Tianshan, NW China Chinese Academy of Sciences, Institute of Geology and Geophysics Beijing CHN China 22-37 201611 EL English 95 10.1016/j.jseas.2016.07.028...

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Geochronological, Petrological, and Geochemical Studies of the Daxueshan Magmatic Ni-Cu Sulfide Deposit in the Tethyan Orogenic Belt, Southwest China

Qingfei Wang, Jun Deng, Gongjian Li, Jinyu Liu, Chusi Li, Edward M. Ripley

Journal: Economic Geology

Publisher: Society of Economic Geologists

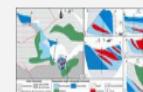
Published: 01 September 2018

Economic Geology [2018] 113 (6): 1307-1332.

DOI: <https://doi.org/10.5382/econgeo.2018.4593>

...Qingfei Wang, Jun Deng, Gongjian Li, Jinyu Liu, Chusi Li, Edward M. Ripley AbstractThe Daxueshan deposit is the first magmatic Ni-Cu sulfide deposit that has been discovered in the eastern part of the Tethyan orogenic belt, which stretches from southwest China to Turkey. Although the size...

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Feng Hongye, Mao Yajing, Qin Kezhang, Tang Dongmei, Xue Shengchao
Publisher: Elsevier
Published: 01 November 2016
Content URL: <http://www.sciencedirect.com/science/journal/13679120>
... and sulfide immiscibility history of the Permian Huangshannan magmatic Ni-Cu sulfide deposit, East Tianshan, NW China Chinese Academy of Sciences, Institute of Geology and Geophysics Beijing CHN China 22-37 201611 EL English 95 10.1016/j.jseas.2016.07.028...

GEOREF RECORD
Geochronology, petrology and Hf-Sr isotope geochemistry of the newly-discovered Xiarihamu magmatic Ni-Cu sulfide deposit in the Qinghai-Tibet Plateau, western China
Edward M. Ripley, Li Chusi, Li Wenyuan, Sun Tao, Wang Yalei, Zhang Zhaowei
Publisher: Elsevier
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... Abstract This paper reports the first set of data for the newly-discovered Xiarihamu magmatic Ni-Cu sulfide deposit in the Eastern Kunlun Paleozoic arc terrane which is located in the northern part of the Qinghai-Tibet plateau. An on-going drilling campaign reveals approximately 100 million...

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Chusi Li, Deng Yufeng, Qian Zhuangzhi, Song Xieyan, Sun Tao, Tang Qingyan
Publisher: Economic Geology Publishing Company
Published: 01 December 2013
Content URL: <http://econgeol.geoscienceworld.org/>
... constraints on the origin of the Huangshandong magmatic Ni-Cu sulfide deposit in the Central Asian orogenic belt, northwestern China Chang'an University, College of Earth Sciences and Resources Xi'an CHN China 1849-1864 201312 EL English 59 10.2113/econgeo...

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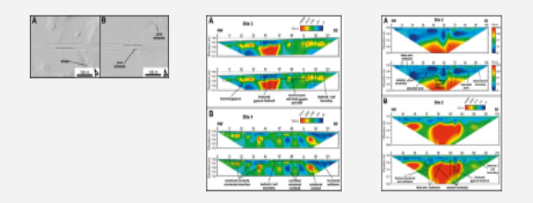
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Characterization and Delineation of Gypsum Karst Geohazards Using 2d Electrical Resistivity Tomography in Culberson County, Texas, Usa

Adam F. Majzoub, Kevin W. Stafford, Wesley A. Brown, Jon T. Ehrhart

Journal: Journal of Environmental and Engineering Geophysics
Publisher: Environmental & Engineering Geophysical Society
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Chemical and structural changes in vitrinites and megaspores from Carboniferous coals during maturation

Laura Zieger, Ralf Littke and Jan Schwarzbauer

Chemical and structural changes in vitrinites and megaspores from Carboniferous coals during maturation
International Journal of Coal Geology (January 2018) 185: 91-102

Index Terms/Descriptors

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Abstract

Chemical and structural changes occurring in kerogen upon thermal alteration are identified and analysed based on a set of naturally matured Carboniferous coals from the Ruhr Basin (Germany). For this purpose, handpicked vitrinite from eleven samples comprising a maturity range from 0.55 to 2.86% VR (sub r) was analysed using attenuated total reflectance infrared spectroscopy (ATR FT-IR) and Curie Point pyrolysis gas chromatography/mass spectroscopy (CP-Py-GC/MS) at two pyrolysis temperatures. Additionally, reflectance μ FT-IR was used to assess variations in the proportions of functional groups in megaspores from five oil mature coal samples. Infrared spectra of the vitrinites show a clear decrease in aliphatic CH (sub x) absorbance in favour of aromatic CH absorbance, pointing out an increase in aromaticity with increasing maturity. Spectra of megaspores are dominated by the absorbance of the aliphatic CH (sub x) stretching region and reveal the loss of C=O groups with increasing maturity, while the degree of aromaticity (γ CH/ ν CH (sub x)) increases slowly compared to that of the vitrinite spectra. Vitrinites pyrolysed at 590 degrees C show higher yields in aliphatic hydrocarbons than those pyrolysed at 764 degrees C, while at the higher pyrolysis temperature the yields in aromatic compounds, including phenols and sulphur-containing aromatics are higher. The aromatic fraction of the pyrolysates, in particular the relative amount of polyaromatics increases upon maturation, while the hemic fraction decreases in favour of benzenes. Major processes leading to these structural and chemical changes in vitrinites and megaspores are defunctionalisation of oxygen-containing groups, the loss of aliphatic compounds and the formation of monoaromatic molecules. These prevail over the condensation of aromatic ring-structures, which is, however, evidenced by increasing proportions of polyaromatic fractions in the pyrolysed vitrinites.

ISSN: 0166-5162

Serial Title: International Journal of Coal Geology

Serial Volume: 185

Title: Chemical and structural changes in vitrinites and megaspores from Carboniferous coals during maturation

Author(s): Zieger, Laura; Littke, Ralf; Schwarzbauer, Jan

Affiliation: Rheinisch-Westfaelische Technische Hochschule Aachen, Institute of Geology and Geochemistry of Petroleum and Coal, Aachen, Germany

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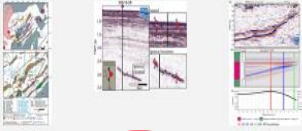
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Overthickening of sedimentary sequences by igneous intrusions

Niall Mark, Nick Schofield, David Gardiner, Liam Holt, Clayton Grove, Douglas Watson, Andy Alexander, Heather Poore

Journal: Journal of the Geological Society
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Clive Edmonds

Journal: Quarterly Journal of Engineering Geology and Hydrogeology
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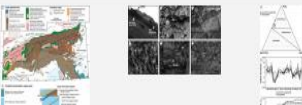


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Spodumene Pegmatites and Related Leucogranites from the AustroAlpine Unit (Eastern Alps, Central Europe): Field Relations, Petrography, Geochemistry, and Geochronology

Tanja Knoll, Ralf Schuster, Benjamin Huet, Heinrich Mali, Peter Onuk, Monika Horschneig, Andreas Ertl, Gerald Gleister

Journal: The Canadian Mineralogist
Publisher: Mineralogical Association of Canada
Published: 23 October 2018
The Canadian Mineralogist (2018) 56 (4): 489-528.
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☒ *Christopher J. Teasdale; Jean A. Hall; John P. Martin; David A. C. Manning*
(17 October 2018) qjehg2018-083.
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Detrital Clay Coats, Clay Minerals, and Pyrite: A Modern Shallow-Core Analogue For Ancient and Deeply Buried Estuarine Sandstones

☒ *Joshua Griffiths; Richard H. Worden; Luke J. Wooldridge; James E. P. Utley; Robert A. Duller*
Journal of Sedimentary Research (23 October 2018) 88 (10): 1205–1237.
DOI: 10.2110/jsr.2018.56

Spodumene Pegmatites and Related Leucogranites from the AustroAlpine Unit (Eastern Alps, Central Europe): Field Relations, Petrography, Geochemistry, and Geochronology

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DOI: 10.3749/canmin.1700092

Five decades of settlement and subsidence

☒ *Clive Edmonds*
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Overthickening of sedimentary sequences by igneous intrusions

☒ *Niall Mark; Nick Schofield; David Gardiner; Liam Holt; Clayton Grove; Douglas Watson; Andy Alexander; Heather Poore*
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