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AAPG Bulletin	3.208
Economic Geology	3.295
Elements	4.329
Geochemical Perspectives	4
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Geological Society of America Bulletin	4.038
Reviews in Mineralogy & Geochemistry	8.846
Seismological Research Letters	3.734



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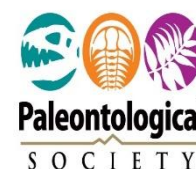
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Innovative Site Features

Split screen display — allows users to scroll the journal article and the article figures simultaneously

Faceted searching — added facets for journal, journal section, article type, book series and GeoRef keywords

Integrated map view search results — allows users to limit search by geographic location

Figure abstract view in search results — thumbnails display with results so users can scan for relevant content

Re-conceptualized treatment of GeoRef Thesaurus — integrates the traditional thesaurus with search results



What's New on the Site

New Archives – *American Mineralogist* full-text back to 1916 and *AAPG Bulletin* full-text back to 1917

New OA Journal – Gulf PetroLink's journal **GeoArabia** (1996-2015) is in process of migrating to GSW

Citation Manager – providing researchers with bulk citation export from search result or issue pages

Proceeding with **CHORUS compliance** – with funding info, **CLOCKSS** archiving, **ORCID iD** support coming soon

Usability enhancements to the sign in area and journal archive pagers.



Information for Librarians

Section 508 and W3C compliant

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Cross Ref™ DOI

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User Guide



Split Screen Article View

- Browseable images scroll independently of text
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- Tab structure for supplements, TOC, references, GeoRef content
- PDF view and standard view options also available

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. Danyushevsky

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

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

Standard View PDF Cite Share Tools

Abstract

The banded iron formation (BIF)-hosted iron ore deposits in the lower greenstone 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-martite ore is related to a subsequent hydrothermal event, occurring locally throughout the belt, especially in D₂₆ 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-lobate magnetite replacement in the K deposit. *Economic Geology*, 2012, 107, 599–644.

Figures & Tables

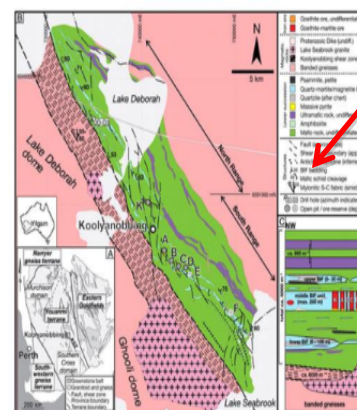
Contents

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Fig. 1



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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



Images scroll separately from text

Split Screen Book View

Books

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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

 Chapter PDF  Cite  Share  Tools

†

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

*

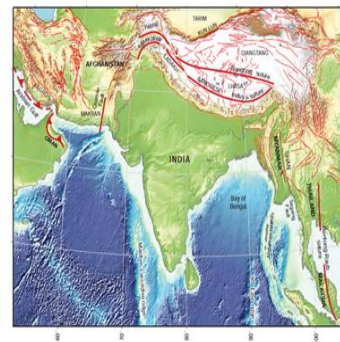
Present address: Centre for Exploration Targeting-Curtin Node, Department of Applied Geology, Western Australian School of Mines, Curtin University, Perth, WA 6102, Australia.

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

 Figures & Tables  Contents  GeoRef  References  Related

Fig. 1.

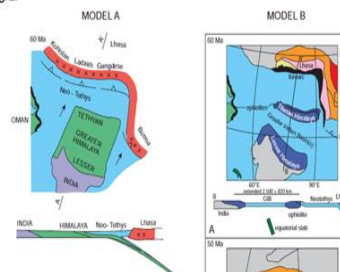


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Digital elevation model of the Middle East and Asia, showing the major tectonic features.

Fig. 2.





Search Results

- Figure display for scanning content (like a visual abstract)
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igneous rocks

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minerals

alloys

antimonides

arsenates

arsenides

arsenites (1)

bismuthides

borates (1)

carbonates

copper minerals (2)

halides

minerals (10)

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phosphates

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silicates

sulfates

sulfides

acanthite (6)

aikinite (4)

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bismuthinite (8)

bornite (15)

bravoite (1)

carrollite (1)

cattierite (1)

chalcocite (1)

chalcocite (65)

cobaltite (9)

cooperite (5)

copper sulfides

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Update search

magmatic Ni-Cu Sulfide

Filter

Add term Update

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Journal Article (1919)

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Reviews in Mineralogy and Geochemistry (74)

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magmatic Ni-Cu Sulfide Deposit

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GEOREF RECORD

Crustal contamination and sulfide immiscibility history of the Permian Huangshannan magmatic Ni-Cu sulfide deposit, East Tianshan, NW China

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...

JOURNAL ARTICLE

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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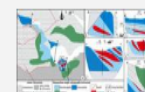
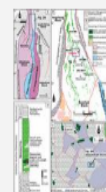
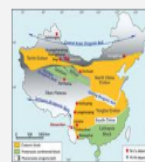


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- Review Article (1)

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- Canadian Journal of Earth Sciences (79)
- American Mineralogist (52)
- Mineralogical Magazine (52)
- Geochemistry: Exploration, Environment, Analysis (41)
- Exploration and Mining Geology (38)
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GEOREF RECORD

Crustal contamination and sulfide immiscibility history of the Permian Huangshannan magmatic Ni-Cu sulfide deposit, East Tianshan, NW China

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
Published: 01 February 2015
Content URL: <http://www.sciencedirect.com/science/journal/00244937>

... 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...

GEOREF RECORD

PGE and isotope (Hf-Sr-Nd-Pb) constraints on the origin of the Huangshandong magmatic Ni-Cu sulfide deposit in the Central Asian orogenic belt, northwestern China

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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JOURNAL ARTICLE

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

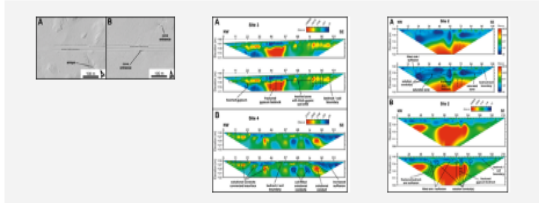
Publisher: Environmental & Engineering Geophysical Society


Published: 11 January 2018


Journal of Environmental and Engineering Geophysics (2018) 22 (4): 411-420.

DOI: <https://doi.org/10.2113/JEEG22.4.411>

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GEOREF RECORD

Paleoenvironmental conditions, organic matter accumulation, and 

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Utilizes the GeoRef keywords and the hierarchy of broader and narrower terms from the thesaurus

GEOREF RECORD

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

aliphatic hydrocarbons, alteration, aromatic hydrocarbons, benzene, Carboniferous, Central Europe, chemical properties, chromatograms, coal, Curie point, Europe, FTIR spectra, gas chromatograms, Germany, hydrocarbons, infrared spectra, ion chromatograms, lithotypes, macerals, mass spectra, molecular structure, North Rhine-Westphalia Germany, organic compounds, Paleozoic, phenols, pyrolysis, Ruhr, sedimentary rocks, spectra, spores, thermal maturity, Upper Carboniferous, vitrain, vitrinite, Westphalian, Lembeck Formation

Latitude & Longitude

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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/nu 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 henolic 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

Pages: 91-102

Published: 20180102

Text Language: English

Publisher: Elsevier, Amsterdam, Netherlands

References: 73

DOI: 10.1016/j.coal.2017.10.007

Accession Number: 2018-014300

Categories: Petrology of coal/General geochemistry

Document Type: Serial

Bibliographic Level: Analytic

Illustration Description: illus. incl. 4 tables

Latitude & Longitude(s): N51°19'60" - N52°19'60", E07°00'00" - E08°30'00"

Country of Publication: Netherlands

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- Announcement (6)

Journal

- Journal of Paleontology (1181)
- Journal of the Geological Society (979)
- GSA Bulletin (908)
- Canadian Journal of Earth Sciences (827)
- AAPG Bulletin (730)
- Journal of Sedimentary Research (597)
- Geology (587)
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Publisher

- Geological Society of London (2594)
- Geological Society of America (2417)
- Paleontological Society (1433)
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JOURNAL ARTICLE
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
Publisher: Geological Society of London
Published: 26 October 2018
Journal of the Geological Society (2018) jgs2018-112.
DOI: <https://doi.org/10.1144/jgs2018-112>
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JOURNAL ARTICLE
Five decades of settlement and subsidence
Clive Edmonds
Journal: Quarterly Journal of Engineering Geology and Hydrogeology
Publisher: Geological Society of London
Published: 23 October 2018
Quarterly Journal of Engineering Geology and Hydrogeology (2018) qjeh2018-089.
DOI: <https://doi.org/10.1144/qjeh2018-089>
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JOURNAL ARTICLE
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 Horschneegg, 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.
DOI: <https://doi.org/10.3749/canmin.1700092>
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October - Volume 46, Number 10

Volume 46, Number 10

1 October 2018



ISSN 0091-7613

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In this Issue

Articles

RESEARCH FOCUS

ARTICLES

Electrostatic levitation of volcanic ash into the ionosphere and its abrupt effect on climate

Matthew J. Genge

Abstract

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Geology August 21, 2018, Vol.46, 835-838. doi:10.1130/G45092.1

How long can the middle crust remain partially molten during orogeny?

Carolina Cavalcante; Maria H. Hollanda; Alain Vauchez; Marcelo Kawata

Abstract

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Geology September 07, 2018, Vol.46, 839-842. doi:10.1130/G45126.1

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