



# GeoScienceWorld

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The Earth's Best Science From One Single Source

## Overview and User Guide

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GeoScienceWorld.org  
[gswinfo@geoscienceworld.org](mailto:gswinfo@geoscienceworld.org)  
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# GeoScienceWorld

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GeoScienceWorld

# Reinvesting in Science. Sustaining Nonprofit Research Publishing.





## GSW's Nonprofit Mission

Provide comprehensive resources for research and communications in the Earth Sciences

Disseminate society content globally in diverse forms and formats

Support the sustainability of societies and libraries and respond to the needs to authors and researchers



## GSW Overview

**Journal Collection** of **46** preeminent society journals with more than **165,000** articles from **28** publishers.

- New content in 2018 represented a 6% increase to total journal content on the GSW platform.

**eBook Collection** includes over **2,170+ ebook titles** from **11 publishers**

- Now including GSA's Special Papers and Memoirs Series

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# GSW Journals – Impact factors

*The overwhelming majority (89%) of the journals in the Millennium Collection are ranked in Thomson Reuters Web of Science™. The average impact factor of our ranked journals (2017) is 2.24, a 12% increase over last year and a 27% increase over the past five years.*

Top 8 Journals	2017 IF
AAPG Bulletin	3.208
Economic Geology	3.295
Elements	4.329
Geochemical Perspectives	4
Geochemical Perspectives	5.073
Geological Society of America Bulletin	4.038
Reviews in Mineralogy & Geochemistry	8.846
Seismological Research Letters	3.734





## Participating Publishers



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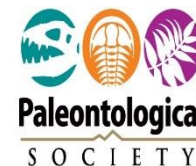
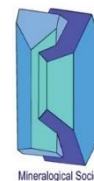
Micropaleontology Press



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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 pages.



## Information for Librarians

**Section 508 and W3C compliant**

**Open URL compliant**

**COUNTER and SUSHI usage reporting**

**Cross Ref™ DOI**

**Recently partnered with Ebsco Discovery Services and OCLC to make GSW content more accessible and easier to discover**



# User Guide





## Split Screen Article View

- Browseable images scroll independently of text
- Images have view large or download for PPT options
- 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

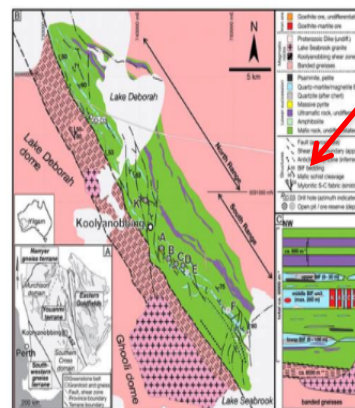
Standard View PDF Cite Share Tools

#### 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-D<sub>1</sub>), 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-D<sub>2</sub> to -D<sub>4</sub> dissolution of early carbonate. Enrichment of Fe<sub>2</sub>O<sub>3total</sub> 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 magnetite 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 D<sub>2b</sub> 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 D<sub>4</sub> faults and caused specularite-...

Figures & Tables Contents GeoRef References Related

Fig. 1

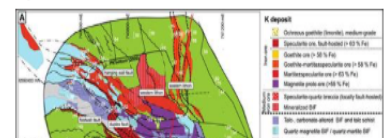


Images scroll separately from text

View large Download slide

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



# Split Screen Book View

## Books

Search... All Books   
Advanced Search

All Books By Publisher

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](mailto:mike.searle@earth.ox.ac.uk)

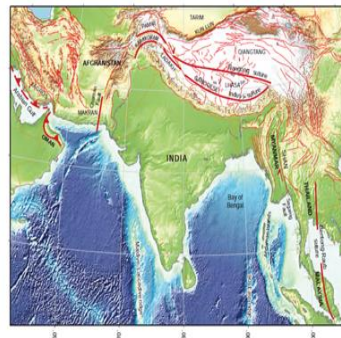
Present address: Centre for Exploration Targeting-Curtin Node, Department of Applied Geology, Western Australian School of Mines, Curtin University, Perth, WA 6102, Australia.

#### 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

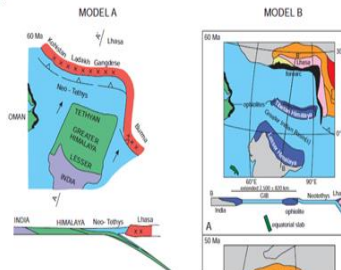
Fig. 1.



View large Download slide

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

Fig. 2.



And text scrolls separately from images.





# Search Results

- Figure display for scanning content (like a visual abstract)
- Links for abstract, supplements, and PDF
- Modify search to narrow results
- Content type facet
- Journal Facet
- Subject facet that utilizes the GeoRef keywords and the hierarchy of broader and narrower terms from the thesaurus
- Easily explore 100s of subject facets
- Time based Facets called out broadly by Era and Period or more narrowly with Epoch and Age

# Search Results Page

Search... All Content   
Advanced Search

## GeoRef Subject

- all geography including DSDP/ODP Sites and Legs
- commodities
- elements, isotopes
- fossils
- geochronology methods
- geologic age
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- metamorphic rocks
- meteorites
- minerals
  - alloys
  - antimonides
  - arsenates
  - arsenides
    - arsenites (1)
  - bismuthides
  - borates (1)
  - carbonates
    - copper minerals (2)
  - halides
    - minerals (10)
  - native elements
  - oxides
  - phosphates
    - platinum minerals (58)
    - selenides (3)
  - silicates
  - sulfates
  - sulfides
    - acanthite (6)
    - aikinite (4)
    - arsenopyrite (17)
    - bismuthinite (8)
    - bornite (15)
    - bravoite (1)
    - carrollite (1)
    - cattierite (1)
    - chalcocite (1)
    - chalcocypite (65)
    - cobaltite (9)
    - cooperite (5)
    - copper sulfides

GeoRef Subject facets



Filter search



## Update search

"magmatic Ni-Cu Sulfide I

Filter

Add term Update

## Format

- Journal Article (1919)
- GeoRef Record (951)
- Book Chapter (148)
- Image (26)
- Book (4)

## Article Type

- Research Article (1831)
- Other (62)
- Book Review (7)
- Review Article (5)
- Introduction (4)
- Letter (4)
- Announcement (3)
- Correction (2)
- Rapid Communication (1)

## Journal

- Economic Geology (847)
- The Canadian Mineralogist (342)
- American Mineralogist (127)
- Mineralogical Magazine (97)
- Canadian Journal of Earth Sciences (89)
- Reviews in Mineralogy and Geochemistry (74)

1-20 OF 3048 RESULTS FOR

## "magmatic Ni-Cu Sulfide Deposit"

[View Results on Map](#) Save search Share Search Sort by Relevance

1 2 3 4 5 Next

## 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...

## 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...

FIGURES | View All (17)

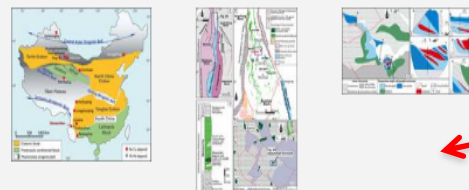


Figure display

Abstract PDF Add to Citation Manager

# Map View Search Results

Limit search by geographic location.  
Click on pins for article title.

**Update search**  
"Magmatic Ni-Cu Sulfide"  
Filter v  
**Add term** **Update**  
**Format**  
 Journal Article (1230)  
 GeoRef Record (725)  
 Book Chapter (20)  
**Article Type**  
 Research Article (1184)  
 Other (38)  
 Introduction (3)  
 Letter (3)  
 Rapid Communication (1)  
 Review Article (1)  
**Journal**  
 Economic Geology (617)  
 The Canadian Mineralogist (166)  
 Canadian Journal of Earth Sciences (79)  
 American Mineralogist (52)  
 Mineralogical Magazine (52)  
 Geochemistry: Exploration, Environment, Analysis (41)  
 Exploration and Mining Geology (38)  
 European Journal of Mineralogy (32)  
 GSA Bulletin (32)  
 South African Journal of Geology (31)  
 Geology (28)  
 Journal of the Geological Society (19)  
 Geological Magazine (18)  
 Geosphere (13)  
 Geophysics (11)  
 Clay Minerals (10)  
 Clays and Clay

**Limit search results to map bounds**

1:20 OF 1975 RESULTS FOR  
**"Magmatic Ni-Cu Sulfide Deposit"**  
Results shown limited to content with bounding coordinates.

**Return to Search Results** Save search Share Search Sort by **Relevance**

1 2 3 4 5 Next >

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

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.jseaes.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...



# Advanced Search

Build query by location,  
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Title   Exact Match

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Date Range:

Start Date End Date

## Paleozoic

Narrower Terms:

- Acadian Phase
- Acatlan Complex
- Alice Springs Orogeny
- Ambo Group
- Antler Orogeny ...

See Also:

- Catalina Schist
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- lower Gondwana System
- Moldanubian ...

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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

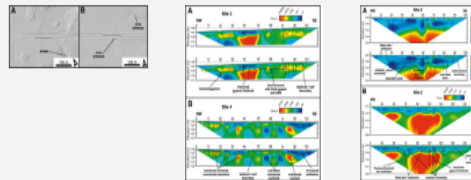
Publisher: Environmental & Engineering Geophysical Society

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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Format

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Article Type

- Other (8457)
- Research Article (6801)
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- Review Article (7)
- Article Commentary (6)
- Letter (6)
- Brief Report (4)
- Abstract (3)
- News (3)

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

N51°19'60" - N52°19'60", E07°00'00" - E08°30'00"

#### 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 mu 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 (gamma 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 henoic 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

Secondary Affiliation: GeoRef, Copyright 2018, American Geosciences Institute. Reference includes data from CAPCAS, Elsevier Scientific Publishers, Amsterdam, Netherlands

Update Code: 2018

URL: 360 LINK

ISSN: 0166-5162

Serial Title: International Journal of Coal Geology

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- Discussion (20)
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- Correction (7)
- Introduction (7)
- 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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- Geological Magazine (536)
- PALAIOS (397)
- Bulletin of Canadian Petroleum Geology (383)
- Paleobiology (252)

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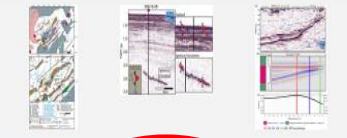
**Publisher**

- Geological Society of London (2594)
- Geological Society of America (2417)
- Paleontological Society (1433)
- SEPM Society for Sedimentary Geology (1275)

**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 Austro-Alpine 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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2010

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2018

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October - Volume 46, Number 10

### Volume 46, Number 10

1 October 2018



ISSN 0091-7613  
EISSN 1943-2682

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